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June 30, 2023

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Reference: Revised Draft Site Characterization/Focused Feasibility Study Addendum

ExxonMobil ADC

2717/2731 Federal Avenue

Everett, Washington

Ecology Facility Site ID 2728

Mr. Cook:

At the request of ExxonMobil Environmental and Property Solutions, on behalf of ExxonMobil Oil Corporation (ExxonMobil) and American Distributing Company (ADC), Stantec Consulting Services Inc. (Stantec), is submitting the enclosed *Revised Draft Site Characterization/Focused Feasibility Study Addendum*, dated June 30, 2023. This addendum is intended to address comments provided by the Washington State Department of Ecology in their technical memorandum dated February 3, 2022.

Please contact Mr. Bobby Thompson, Stantec Project Manager for this Site at (206) 510-5855, or Mr. Jeff Johnson, ExxonMobil Project Manager for this Site at (815) 860-7290, with questions.

Regards,

Stantec

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Attachment: Stantec's Revised Draft Site Characterization/Focused Feasibility Study Addendum, dated June 30, 2023

c. Mr. Erik Gerking, Port of Everett

Mr. Steve Miller, American Distributing Company

Ms. Sandra Caldwell, Washington State Department of Ecology

Mr. Jeff Johnson, ExxonMobil Environmental and Property Solutions Company



Revised Draft Site Characterization/Focused Feasibility Study Addendum

ExxonMobil ADC 2717/2731 Federal Avenue Everett, Washington Ecology Site ID 2728

June 30, 2023

Prepared for:

ExxonMobil Environmental and Property Solutions Company and American Distributing Company

Prepared by:

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ExxonMobil ADC June 30, 2023

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Appendix C Boiling Logs
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Acronyms and Abbreviations

2010 Order Agreed Order DE 6184

ADC American Distributing Company

Addendum Stantec's Draft Site Characterization/Focused Feasibility Study Addendum, dated

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AUUL Advanced Underground Utility Locating

bgs Below ground surface
BNSF BNSF Railway Company
CAP Cleanup Action Plan

COCs Contaminants of concern

cPAHs Carcinogenic polycyclic aromatic hydrocarbons

DCA Disproportionate cost analysis

Ecology Washington State Department of Ecology

Eurofins Calscience LLC, located in Garden Grove, California

-very extent Police attent West. 2020 and 2021 delineation soil borings to predefine the extents of the remedial

excavations on the ExxonMobil ADC Property and Port property

ExxonMobil ExxonMobil Oil Corporation
Holocene Holocene Drilling, Inc.
ISS In-situ soil stabilization

Excavation Delineation Work

Libby Environmental Libby Environmental, Inc., located in Olympia Washington

LNAPL Light non-aqueous phase liquid

mg/kg Milligrams per kilogram

MNA Monitored natural attenuation

MTCA Model Toxics Control Act

NWTPH-Gx Northwest Total Petroleum Hydrocarbons for Gasoline Range Organics

NWTPH-Dx Northwest Total Petroleum Hydrocarbons for Diesel/Oil Range Organics

Port Port of Everett

Port Interim Action

Remedial excavation of light non-aqueous phase liquid (LNAPL) and soil containing

residual LNAPL saturation on Port property west of Federal Avenue

ExxonMobil and ADC-owned parcels located at 2717 and 2731 Federal Avenue, in

Property Everett, Washington

SC/FFS Site characterization/focused feasibility study

Site ExxonMobil and ADC Property and the surrounding parcels where hydrocarbons

have migrated

Stantec Stantec Consulting Services Inc.

TPH Total petroleum hydrocarbons

TPHg Total petroleum hydrocarbons as gasoline
TPHd Total petroleum hydrocarbons as diesel
TPHmo Total petroleum hydrocarbons as motor oil

WAC Washington Administrative Code

Wood Wood Environment & Infrastructure Solutions, Inc.

WSP USA Environment & Infrastructure Inc.



1.0 INTRODUCTION

At the request of ExxonMobil Environmental and Property Solutions, on behalf of ExxonMobil Oil Corporation (ExxonMobil) and American Distributing Company (ADC), Stantec Consulting Services Inc. (Stantec), prepared this *Revised Draft Site Characterization/Focused Feasibility Study Addendum* (Addendum) for the ExxonMobil ADC Site (Site) to address comments provided by the Washington State Department of Ecology (Ecology) in their technical memorandum dated February 3, 2022 (Appendix A; Ecology, 2022a) and to summarize updates to the selected source area alternative to include soil stabilization. This revised Addendum supersedes Stantec's *Draft Site Characterization/Focused Feasibility Study Addendum*, dated May 25, 2023 (Stantec, 2023a).

In January 2022, Wood Environment & Infrastructure Solutions, Inc. (Wood) prepared a draft *Site characterization/focused feasibility study* (SC/FFS) report, dated January 13, 2022 (Wood, 2022). In February 2022, comments on the draft SC/FFS were provided in Ecology's *Technical Memorandum* – *Site Characterization/Focused Feasibility Report* – *ExxonMobil / ADC Property-Ecology Site 2728, Everett, Washington*, dated February 3, 2022 (Ecology, 2022a). A final draft SC/FFS, prepared for the public comment period, was submitted by WSP USA Environment & Infrastructure Inc. (WSP) on May 12, 2023 (WSP, 2023). In the February 2022 technical memorandum, Ecology requested a summary of the results of the excavation delineation soil investigations conducted by Cardno in 2020 and 2021 (Excavation Delineation Work) and an adjustment to the disproportionate cost analysis (DCA) to incorporate the additional amount of material proposed for excavation and removal or stabilization. This revised Addendum was prepared to supplement WSP's May 2023 SC-FFS (WSP, 2023) and to address Ecology's February 2022 comments (Ecology, 2022a).

1.1 SITE CHARACTERIZATION/FOCUSED FEASIBILITY STUDY HISTORY

The cleanup of the Site is regulated under Washington Administrative Code (WAC) Chapter 173-340 – Model Toxics Control Act (MTCA) Cleanup Regulations (WAC, 2007). Environmental site investigation and interim actions have been conducted at the Site beginning in 1985 (WSP, 2023). There have been three Agreed Orders issued under the MTCA to date that direct cleanup actions (Ecology, 2010). Descriptions of the three Agreed Orders are provided in Section 2.5 of WSP's final draft SC/FFS (WSP, 2023).

In March 2010, Ecology entered into Agreed Order DE 6184 in March 2010 (2010 Order), with ExxonMobil and ADC requiring a SC/FFS and development of a draft Cleanup Action Plan (CAP) to identify the nature and extent of hydrocarbons in soil and groundwater and select a preferred final interim action to remediate the Site in accordance with the MTCA (Ecology, 2010). Wood submitted the initial draft SC/FFS to Ecology on August 23, 2019 (Wood, 2019). Following Ecology's review, Wood submitted a revised SC/FFS on June 11, 2021 (Wood, 2021). Following additional review by Ecology, Wood submitted a revised SC/FFS on January 13, 2022 (Wood, 2022). A final draft SC/FFS was submitted by WSP on May 12, 2023 (WSP, 2023); this final draft SC/FFS serves as the historical Site document that summarizes all historical remedial actions and the Site history. This Addendum was prepared for work being conducted under the 2010 Order.



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Ecology's February 2022 technical memorandum provided comments on Wood's January 2022 SC/FFS (Ecology, 2022a). Stantec prepared this revised Addendum to the May 2023 final draft SC/FFS to address Ecology's February 2022 comments and accompany the final draft SC/FFS and the draft CAP during the public comment period.

In June 2022, an amendment to the 2010 Order was made between Ecology, ExxonMobil, and ADC to incorporate the Port Interim Action conducted on the Port of Everett (Port) property west of Federal Avenue (Ecology, 2022b). The amendment specified that upon approval, Cardno's *ExxonMobil ADC Site – Port of Everett Property Interim Action Work Plan*, dated June 14, 2022 (Cardno, 2022) would become a part of the 2010 Order. The scope of the Port Interim Action included excavation of light non-aqueous phase liquid (LNAPL) and soil containing residual LNAPL saturation, transportation and disposal of excavated soil, excavation backfill, and site restoration including reinstallation of the asphalt cap. Additionally, a permanent barrier was installed along Federal Avenue to limit LNAPL migration.

1.2 PROPERTY DESCRIPTION AND BACKGROUND

The ExxonMobil ADC Property (Property) is located at 2717/2731 Federal Avenue, Everett, Snohomish County, Washington, adjacent to the Port of Everett (Plate 1). The Property consists of three tax parcels: 00437161900101, 00437161900100, and 00437161901000 (Snohomish County, 2023). The northern parcels are owned by ADC and the southern parcel is owned by ExxonMobil. The Property historically operated as a bulk petroleum storage, transfer, and distribution facility.

1.3 MTCA SITE

As noted in the 2010 Order, the MTCA Site is defined as a release of gasoline-, diesel-, and motor oil-range total petroleum hydrocarbons (TPH as TPHg, TPHd, TPHmo), benzene, total xylenes, carcinogenic polycyclic aromatic hydrocarbons (cPAHs), and lead in soil and groundwater (Ecology, 2010). Additionally, ethylbenzene has been detected exceeding the MTCA Method A Cleanup Level in soil (Ecology, 2010). The Site includes the ExxonMobil ADC Property and extends into former Everett Avenue (north of the Property, now owned by the Port), Federal Avenue (west of the Property), and Port property to the west of the Property. It also includes portions of the City of Everett rights-of-way (east and south of the Property and the underneath the Terminal Avenue Overpass to the southeast of the Property), and the BNSF Railway Company (BNSF) parcel (east of the Property). Descriptions of these areas are included in the final draft SC/FFS and draft CAP. A Generalized Site Plan including the approximate locations of former structures on the Property is illustrated on Plate 2. A Site Boundary Map is included as Plate 3.

2.0 RESIDUAL SATURATION REMEDIATION LEVEL SELECTION

In the 2019 draft SC/FFS (Wood, 2019), Wood established residual saturation remediation levels using Site-specific data. In Ecology's May 6, 2019 response to the 2019 draft SC/FFS, Ecology recommended the use of the more stringent limits of the proposed residual saturation remediation level ranges (Ecology, 2019), which were incorporated into subsequent versions of the SC/FFS (WSP, 2023) and have been selected for the cleanup action described in the draft CAP.



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Contaminant	Site-Specific Residual Saturation Remediation Level in Soil (mg/kg)
TPHg	2,470
TPHd	4,800
TPHmo	5,810

mg/kg = milligrams per kilogram

The Site-specific residual saturation remediation levels will be used to ensure that excavation has been completed to the maximum extent practicable in accessible areas on the Site.

3.0 EXCAVATION DELINEATION WORK

The Excavation Delineation Work on the Port property and ExxonMobil ADC Property was conducted so that the collection of performance soil samples during excavation will not be necessary. The Excavation Delineation Work was conducted under the supervision of a licensed geologist and in accordance with Cardno's standard field protocol (Appendix B) and with the following work plans:

- Excavation Delineation Work Plan Port of Everett Property, dated September 1, 2020 (Cardno, 2020a).
- Subsequent Excavation Delineation Drilling Work Plan, dated December 21, 2020 (Cardno, 2020b).
- Excavation Delineation Drilling Work Plan, dated July 15, 2021 (Cardno, 2021b).

The Excavation Delineation Work was performed in order to achieve the following objectives:

- Advance exploratory soil borings to delineate the proposed targeted remedial excavation extents.
- Evaluate soil heterogeneity as related to potential preferential pathways that might impact the lateral and vertical extents of the proposed targeted remedial excavation.
- Characterize the extent of hydrocarbons in soil so that the collection of performance soil samples during the targeted remedial excavations is not necessary.

The Excavation Delineation Work included the advancement of 174 soil borings to define current extent of contaminants of concern (COCs) in soil via five delineation drilling events in 2020 and 2021 on the Port property and on and near the ExxonMobil ADC Property.

3.1 PRE-FIELD ACTIVITIES

Prior to conducting field activities, Cardno contracted Advanced Underground Utility Locating (AUUL), of Bellevue, Washington, to conduct an evaluation of subsurface structures located at the Site. Using a combination of ground penetrating radar and portable electromagnetic survey, AUUL located the extents of sanitary sewer lines, underground power lines, telecommunication lines, and storm sewer lines. Holocene Drilling, Inc. (Holocene), of Puyallup, Washington, obtained Washington start cards from Ecology.

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3.2 SOIL BORING ADVANCEMENT

3.2.1 Port of Everett Property

To supplement data collected from historical boring locations that exceeded the Site-specific residual saturation remediation levels, soil borings were advanced laterally outward approximately every 20-feet as representative floor and sidewall samples would be collected during a remedial excavation in accordance with Section 6.8.3 of Ecology's *Guidance for Remediation of Petroleum Contaminated Sites*, dated June 2016 (Ecology, 2016).

On October 12 through October 14, 2020, Cardno observed Holocene advance 30 excavation delineation soil borings using a direct push drill rig. Soil samples collected from the borings were field screened and evaluated for the presence of residual hydrocarbon concentrations. Soil samples that indicated the presence of residual hydrocarbons were analyzed on site by Libby Environmental, Inc. (Libby Environmental), a State of Washington-certified mobile laboratory, for constituents of concern. Samples that did not indicate the presence of residual hydrocarbons were preserved for analysis at Libby Environmental's fixed-base laboratory located in Olympia, Washington.

Cardno reviewed laboratory analytical results and field observations from the initial 30 excavation delineation soil borings and identified 11 locations that could provide additional lateral and/or vertical delineation of soil to further define the extents of the Port property targeted remedial excavation. On January 25 through January 27 and February 5, 2021, Cardno observed Holocene advance 11 borings by direct push drill rig. Based on the analytical results reported by the mobile laboratory, seven additional step-out borings were advanced to further delineate the extents of the proposed targeted remedial excavation. As during the October fieldwork, soil samples collected from the borings were field screened and evaluated for the presence of residual hydrocarbon concentrations. Soil samples that indicated the presence of residual hydrocarbons were analyzed on the Site by Libby Environmental. Samples that did not indicate the presence of residual hydrocarbons were preserved for analysis at Libby Environmental's fixed-base laboratory located in Olympia, Washington.

Based on results of field screening and initial laboratory analytical results, Cardno identified data gaps in vertical delineation at the locations of borings EB31 and EB32 located along the northern perimeter of the Everett Ship Repair leasehold owned by the Port. On January 27, 2021, borings EB31A and EB31B were advanced to achieve vertical delineation at the location of EB31 and boring EB32A was advanced to achieve vertical delineation at the location of EB32.

Boring logs are included in Appendix C. Soil boring locations are illustrated on Plates 4 through 12. A cross section is included as Plate 13. Analytical results of soil samples collected from these borings is summarized on Table 1. Additional details of this work, including laboratory analytical reports and waste documentation, are summarized in Cardno's *Port of Everett – Excavation Delineation Report* (Cardno, 2021a).

3.2.2 ExxonMobil ADC Property

To completely define the extents of the ExxonMobil ADC Property targeted remedial excavation, Cardno observed Holocene advance 74 excavation delineation soil borings in a 20-foot by 20-foot grid pattern across the entire Property and nearby surrounding properties on August 9 through August 18, 2021.

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Surrounding properties included former Everett Avenue to the north and City of Everett rights-of-way to the east, south, and west of the Property. Soil borings were advanced using a direct push drill rig. Soil samples collected from the borings were field screened and evaluated for the presence of residual hydrocarbon concentrations at approximately 2.5-feet intervals to a maximum depth of 15 or 20 feet below ground surface (bgs). Following screening, soil samples were preserved and submitted for laboratory analysis.

Cardno reviewed laboratory analytical results and field observations from the initial 74 excavation delineation soil borings completed in August 2021. During review, Cardno identified 49 grid locations adjacent to the initial 74 locations that could provide additional lateral and/or vertical delineation of soil to further define the extents of the ExxonMobil ADC Property targeted remedial excavation. On October 12 through October 15, 2021, Cardno observed Holocene advance 49 additional excavation delineation soil borings using a direct push drill rig. Because the initial 74 excavation delineation soil borings completed in August 2021 provided a sufficiently detailed account of subsurface geology and occurrence of groundwater, soil was not logged during follow-up drilling in October 2021 and boring logs were not generated.

Soil samples collected from the October 2021 borings were field screened and evaluated for the presence of residual hydrocarbon concentrations at approximately 2.5-feet intervals to a maximum depth of 15 or 20 feet bgs or at targeted depths meant to delineate specific sample results from the initial work in August 2021. Following screening, soil samples were preserved and submitted for laboratory analysis at Eurofins Calscience LLC, a State of Washington-certified laboratory, located in Garden Grove, California (Eurofins Calscience).

Boring logs are included in Appendix C. Soil boring locations are shown on Plates 14 through 22. A cross section is included as Plate 23. Analytical results of soil samples collected from these borings is summarized on Table 2.

3.3 LABORATORY ANALYSIS

Soil samples were analyzed by Libby Environmental's mobile laboratory, Libby Environmental's fixed-base laboratory, or Eurofins Calscience for:

- TPHg in accordance with NWTPH-Gx (Northwest TPH for Gasoline Range Organics).
- TPHd and TPHmo in accordance with NWTPH-Dx (Northwest TPH for Diesel and Oil Range Organics).

Analytical results are summarized in Tables 1 and 2. Laboratory results and chain of custody documentation for samples collected on the Port property are included in Cardno's *Port of Everett – Excavation Delineation Report* (Cardno, 2021a). Laboratory results and chain of custody documentation for samples collected on the ExxonMobil ADC Property are included in Appendix D of this Addendum.

3.4 WASTE MANAGEMENT

The soil and decontamination water generated during drilling activities was temporarily stored on the ExxonMobil ADC Property in Department of Transportation-approved 55-gallon drums. Soil and decontamination water was transported by Advanced Chemical Transport, Inc., of Kent, Washington, to US Ecology Idaho Inc.'s Grandview, Idaho, facility, an ExxonMobil Approved Waste Sites list disposal



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facility. Waste documentation for soil and water generated during the Port property delineation is included in Cardno's *Port of Everett – Excavation Delineation Report* (Cardno, 2021a) and documentation for the ExxonMobil ADC Property delineation is included in Appendix E.

4.0 ADDENDUM TO THE MAY 2023 SC/FFS

In the February 2022 technical memorandum (Ecology, 2022a), Ecology requested the following updates to select draft SC/FFS sections based on results of the Excavation Delineation Work:

- Incorporate the data generated during the Cardno pre-excavation delineation on the ExxonMobil ADC Property, as was completed in Sections 2.4.2, 3.2.4, 5.1.2, 6.0, and 6.1 of the draft SC/FFS for the Port property.
- Adjust the DCA to incorporate the additional amount of material to be removed/excavated.

The sections in the draft SC/FFS identified by Ecology are as follows:

- 2.4.2: Geology and hydrogeology
- 3.2.4: Port of Everett excavation delineation project
- 5.1.2: Constituents of concern for soil
- 6.0: Nature and extent of contamination
- 6.1: Soil

4.1 GEOLOGY AND HYDROGEOLOGY (2.4.2)

Soil and depth to first encountered groundwater observed during the excavation delineation subsurface investigation as described in this Addendum were consistent with historical observations as described in WSP's May 2023 SC/FFS.

4.1.1 Port of Everett Property

Soil encountered on the Port property consisted of stratified layers of sand, silt, gravel with sand, and sand with gravel from surface to approximately 20 feet bgs, the maximum depth explored during this investigation (Appendix C, Plate 13).

According to historical aerial photography (WSP, 2023), most of the proposed targeted remedial excavation area was infilled during shoreline expansion efforts between 1914 and 1947. The northwestern corner (approximately north of boring EB25 and east of the north to south cross section traverse A-A' shown on Plates 4 through 12) was infilled during shoreline expansion efforts between 1967 and 1976 (current shoreline). Select infill materials used in the northwestern corner differ from those in the south.

Cardno observed a concrete debris layer up to 4 feet thick in the northwestern corner in borings EB32, EB32A, and EB34 along with several gravel layers across the entire area that were not observed in other areas of the proposed targeted remedial excavation.



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In the southern portion of the proposed targeted remedial excavation area, from approximately EB19 to the southern proposed remedial excavation extent, Cardno observed wood debris in layers up to 4 feet thick. The wood debris was characterized by a clay-like texture and matrix.

Cardno did not identify any subsurface preferential pathways. The subsurface is remarkably homogeneous given its infill history, comprising primarily of coarse-grained sandy sediments.

Groundwater was encountered from 7.5 to 17.5 feet bgs in 31 of 51 borings (Appendix C). Shallower groundwater was observed in the south and deeper groundwater was observed in the north (Plate 13).

4.1.2 ExxonMobil ADC Property

Soil encountered across most of the ExxonMobil ADC Property consisted of medium- to coarse-grained sand with varying amounts of gravel and silt from surface to 10 to 12.5 feet bgs underlain by silt to 20 feet bgs, the maximum depth explored during the Excavation Delineation Work (Appendix C, Plate 23).

In the northern portion of the ExxonMobil ADC Property, the sands extend from surface to total depth. In the central portion of the Property as it lies north to south, fine-grained silt was observed from surface to total depth. Wood fibers in clay matrix as well as what appeared to be decomposing wood layers were observed in several locations across the Property at depths of 7.5 feet bgs to total depth.

Groundwater was encountered from 5 to 12.5 feet bgs in 60 of the 74 borings completed in August 2021; Cardno did not record observations of groundwater in the additional 49 borings completed in October 2021. Groundwater was observed consistently at 10 feet bgs across the central portion of the Property as it lies north to south (Plate 23). Groundwater depths were more variable in the northern and southern portions of the Property.

4.2 PORT OF EVERETT EXCAVATION DELINEATION PROJECT (3.2.4)

Section 3.2.4 of WSP's May 2023 SC/FFS is a brief description of the Excavation Delineation Work on the Port property. Full details of the Excavation Delineation Work on both the Port property and ExxonMobil ADC Property are provided in Section 3.0 of this Addendum and Cardno's *Port of Everett – Excavation Delineation Report* (Cardno, 2021a).

4.3 CONTAMINANTS OF CONCERN FOR SOIL (5.1.2)

Section 5.1.2 of WSP's May 2023 SC/FFS summarizes COCs for soil based on historical Site soil characterization and the MTCA Site definition. The COCs for soil are:

- TPHg
- TPHd
- TPHmo
- Benzene
- Ethylbenzene
- Total xylenes
- 1-methylnaphthalene
- Total cPAHs



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The COCs for soil were not altered as a result of the Excavation Delineation Work. However, only TPHg, TPHd, and TPHmo were selected for analysis during the Excavation Delineation Work for comparison against the Site-specific residual saturation remediation levels in order to completely define the extents of the targeted remedial excavation such that soil sampling at the time of the excavation will not be necessary. Observations of LNAPL were also documented on the boring logs and Tables 1 and 2.

4.4 NATURE AND EXTENT OF CONTAMINATION – SOIL (6.0 AND 6.1)

Analytical results of soil samples collected during the Excavation Delineation Work have expanded and clarified Stantec's understanding of the lateral and vertical occurrence of LNAPL, TPHg, TPHd, and TPHmo across the Port property and ExxonMobil ADC Property. The excavation extents are limited due to various inaccessible areas near Federal Avenue, former Everett Avenue, and/or the Terminal Avenue Overpass. Additionally, various underground utility corridors and overhead power lines also limit the accessible areas. Depth-interval map series are presented on Plates 4 through 12 for the Port property and Plates 14 through 22 for the ExxonMobil ADC Property. Cross sections are provided as Plate 13 for the Port property and Plate 23 for the Property. A map showing the approximate proposed targeted remedial excavation boundaries is included as Plate 24.

4.4.1 Port of Everett Property

As shown on cross section A-A' (Plate 13) as well as the depth-interval map series (Plates 4 through 12), soil samples on the Port property exceeding the Site-specific residual saturation remediation levels (illustrated in red) and/or locations of LNAPL observances (illustrated in magenta) tend to deepen from the 5-foot bgs range in the southern area to the 15-foot bgs range in the northern area. The depth of first encountered groundwater identified during the drilling activities demonstrates a similar pattern where groundwater was first observed at shallower depths in the 5-foot bgs range to the south and deeper depths in the 15-foot bgs range to the north.

The lateral migration of hydrocarbons from east to west across the Port property is well defined on its western extent along a predominantly straight line running longitudinally north to south from borings SB3 to EB37. The expression of the straight line, perpendicular to groundwater flow direction and downgradient of the known historical release, demonstrates that migration of hydrocarbons occurred uniformly and the likelihood of preferential pathways existing along any east-west axis across the area is low. The western boundary of the proposed targeted remedial excavation, and the interpreted western extent of residual hydrocarbon concentrations, has been defined as illustrated on Plates 4 through 12. The boundaries of the excavation were limited by the City of Everett right-of-way to the east, including significant underground utility corridors, and to the north by a large utility main (Plate 13). These areas are considered inaccessible.

Laboratory results indicate 23 of 51 soil boring locations contained residual hydrocarbons above the Site-specific residual saturation remediation levels for at least one sample-depth interval (Table 1). LNAPL was observed at three soil boring locations at depths of 7.5 to 17.5 feet bgs (Table 1).

Soil concentrations exceeding the Site-specific residual saturation remediation levels were confined to a north to south trending line of approximately 300 feet along Federal Avenue and extending approximately 80 feet west toward Port Gardner Bay.



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4.4.2 ExxonMobil ADC Property

As shown on cross section B-B' (Plate 23) as well as the depth-interval map series (Plates 14 through 22), soil samples on the ExxonMobil ADC Property exceeding the Site-specific residual saturation remediation levels (illustrated in red) and/or locations of LNAPL observances (illustrated in magenta) tend to deepen from a maximum of 5 feet bgs in the south near grid row P to 15 feet bgs in the north at row A. Additionally, soil samples exceeding the Site-specific residual saturation remediation levels and/or locations of LNAPL observances tend to deepen diagonally from the southwestern corner of the ExxonMobil ADC Property toward the northeastern corner and eastern edge of the Property, adjacent to the 2011 through 2012 BNSF excavation extents.

The lateral extents of residual hydrocarbons exceeding the Site-specific residual saturation remediation levels were not defined in all directions during the Excavation Delineation Work on the ExxonMobil ADC Property. Soil boring completions were limited by City of Everett right-of-way Federal Avenue to the west, former Everett Avenue and a subsurface storm sewer line to the north, the Property boundary with a City of Everett right-of-way and the BNSF parcel to the east, and the City of Everett right-of-way Terminal Avenue Overpass to the east and south. The City of Everett rights-of-way, including significant underground utility corridors and high voltage overhead power lines, and Port property are inaccessible areas for the purposes of the targeted remedial excavation (Plates 14 through 22).

Laboratory results indicated 64 of 123 soil boring locations contained concentrations of residual hydrocarbons above the Site-specific residual saturation remediation levels for at least one sample-depth interval (Table 2). LNAPL was observed in at least one sample-depth interval in 29 of 123 soil boring locations (Table 2).

Soil concentrations exceeding the Site-specific residual saturation remediation levels were confined to a north to south trending line of approximately 320 feet along Federal Avenue and extending approximately 170 feet east towards the City of Everett right-of-way and BNSF parcel.

4.5 UPDATED SOURCE AREA ALTERNATIVE

4.5.1 Wood 2021 SC/FFS Alternative Selection

Based on the evaluation of cleanup alternatives using the MTCA remedy selection criteria and DCA results, Source Area Alternative 1: LNAPL Area Excavation and Natural Source Zone Attenuation and Groundwater Alternative 1: Monitored Natural Attenuation were selected as the comprehensive cleanup remedies for the Site (WSP, 2023; Ecology, 2021).

4.5.2 Cantilevered Sheet Pile Shoring Design

Wood's 2021 SC/FFS indicated the use of a perimeter shoring system to facilitate the excavation of soil exceeding the Site-specific residual saturation remediation levels to the remedial design depth of approximately 10 feet bgs. The Excavation Delineation Work indicated the presence of soil exceeding the Site-specific residual saturation remediation levels at depths of approximately 17.5 feet bgs on the eastern border of the ExxonMobil ADC Property (adjacent to the BNSF parcel and Terminal Avenue Overpass), implying excavation should be conducted to 20 feet bgs.



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An engineering design of the cantilevered sheet pile shoring wall around the perimeter of the excavation has been evaluated. The design evaluation indicated excavation depths of 15 feet bgs would require a sheet pile design using of a 60-foot length of the strongest sheet pile section available for that length. Use of cantilevered sheet piling for depths greater than 15 feet would require sections stronger than are typically available and in lengths that would be challenging to transport to the Site (Neuman, 2023).

When excavations with cantilevered sheet piles exceed 20 feet in depth, an additional support element can be added – including whalers or tiebacks along the height of the wall. Because of the long length of the wall, use of a whaler braced to the return walls is not feasible.

Use of a tieback may not be feasible as it may require a tieback length that would interfere with the adjacent Terminal Avenue Overpass foundation (Neuman, 2023). Installation of shoring tiebacks would require a tieback easement with adjacent property owners as the tiebacks would extend off the ExxonMobil ADC Property. It is possible the easements would not be granted due to concerns regarding damage to subsurface BNSF railroad infrastructure, Terminal Avenue Overpass structural foundations, and the City of Everett utility corridor. Lastly, installation of shoring tiebacks requires access within the shallow excavation extents with drilling equipment.

Given that groundwater and LNAPL are encountered approximately 5 feet bgs, staging personnel and drilling equipment while installing the tiebacks would create health and safety concerns, in addition to potentially serving as a conduit for contamination to cross onto the adjacent properties located outside of the excavation footprint.

4.5.3 Soil Stabilization

Given the sheet pile shoring engineering constraints, in-situ soil stabilization as discussed in Wood's 2021 SC/FFS will be applied for the remediation of accessible areas between 15 to 20 feet bgs adjacent to the Terminal Avenue Overpass.

In-situ soil stabilization (ISS) is accomplished by mixing a stabilization additive (typically Portland cement) into the subsurface using a large diameter auger to stabilize the soil and bind COCs. Portland cement, and/or other binding materials, tightly bind to inorganic contaminants and effectively immobilize them, thereby eliminating migration and direct exposure risks. The stabilized soil is usually friable after stabilization but has good bearing capacity and reduced permeability. For all Site COCs described in Section 4.3, this technology is effective in reducing mobility if an additive, such as bentonite or organophilic clay, is added. Mixing the additives with the soil results in a volume increase (which may be in the range of 20 to 30%); the excess soil is typically removed from the Site to maintain the existing grade. If this technology is combined with excavation of affected soil, the stabilized soil may be used to backfill portions of the Site that have been excavated (Wood, 2021).

Advantages of ISS include decreased mobility of COCs due to binding of stabilized soils, decreased concentrations of COCs in treated soil due to mixing into the soil column, and slightly reduced permeability of treated soils; thus, reducing the potential for migration. Additionally, site-specific admixtures can be developed and evaluated to achieve desired results. For example, increasing bentonite along the perimeter could further reduce permeability, resulting in decreased groundwater flow through the treated area (Wood, 2021). Additional detail regarding the ISS remedial process with be defined in Stantec's Engineering Design Report.



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4.6 DISPROPORTIONATE COST ANALYSIS UPDATE

Table 14-1 in Wood's 2021 SC/FFS provided a DCA for the three Source Area Alternatives and two Groundwater Alternatives that were considered for the Site. Source Area Alternative 1: LNAPL Area Excavation and Natural Source Zone Attenuation was recommended for implementation by Wood and Ecology concurred (Wood, 2021; Ecology, 2021). In the February 2022 technical memorandum (Ecology, 2022a), Ecology requested an adjustment to the DCA to incorporate the additional amount of material to be removed/excavated. The table below summarizes the revised cost analysis, updated based on the Excavation Delineation Work which expanded the proposed lateral and vertical extents of LNAPL area excavations, and current estimated unit costs.

Source Area Alternative 1: LNAPL Area Excavation and Natural Source Zone Attenuation					
	2019 SC/FFS	2023 SC/FFS Addendum			
Total Estimated Cost	\$10,400,000 ^a	\$18,500,000			
Disproportionate Cost Analysis					
Overall Benefit Rating	63 ^b	63			
Ratio of Cost/Benefit	\$165,000°	\$294,000			

- a. August 2019 total estimated cost of \$8,788,000 converted to April 2023 dollars for updated comparison (BLS, 2023).
- b. Overall Benefit = Sum of ratings for all criteria except cost.
- c. Calculated using 2023 dollars value for updated comparison; 2019 amount was \$139,000.

5.0 DESCRIPTION OF THE CLEANUP ACTION

Based on the evaluation of cleanup alternatives using the MTCA remedy selection criteria and disproportionate cost analysis results, Source Area Alternative 1: LNAPL Area Excavation and Natural Source Zone Attenuation and Groundwater Alternative 1: Monitored Natural Attenuation, were selected as the comprehensive cleanup remedies for the Site (WSP, 2023; Ecology, 2021). As described in Section 4.5, ISS will be used to remediate soil exceeding the Site-specific residual saturated remediation levels in a small area between 15 and 20 feet bgs. The selected cleanup remedies consist of the following:

- Excavation of predetermined extents defined by the Excavation Delineation Work conducted from October 2020 to October 2021. The Excavation Delineation Work results are shown on Plates 6 through 23. The completed Port Interim Action and the proposed ExxonMobil ADC Property excavation are shown on Plate 24.
- Soil stabilization of predetermined extents defined by the Excavation Delineation Work conducted from August to October 2021 shown on Plates 21 and 22.
- Transport excavated accessible soils containing LNAPL and where analytical results indicated concentrations that exceeded the Site-specific residual saturation remediation levels for final treatment or disposal.
- Natural source zone attenuation to remediate COCs remaining in the source and inaccessible areas to assess the effectiveness of the remedy.
- Upon completion of the excavation portion of the proposed cleanup action, groundwater monitoring
 will assess potential LNAPL mobility near the inaccessible areas and groundwater quality
 downgradient of the source areas, including the Port property.

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• Monitored natural attenuation (MNA) will be performed to confirm degradation of COCs in soil and groundwater across the Site. Soil and groundwater COCs are summarized in Section 5.0 of WSP's May 2023 SC/FFS. Additional information regarding MNA is described in Stantec's Revised ExxonMobil ADC Draft Cleanup Action Plan, dated June 30, 2023 (Stantec, 2023b). A sampling and analysis plan will be prepared and included as an addendum to Site environmental covenants defining the duration, frequency, and locations for future MNA activities.

Implementation of restrictive covenants.



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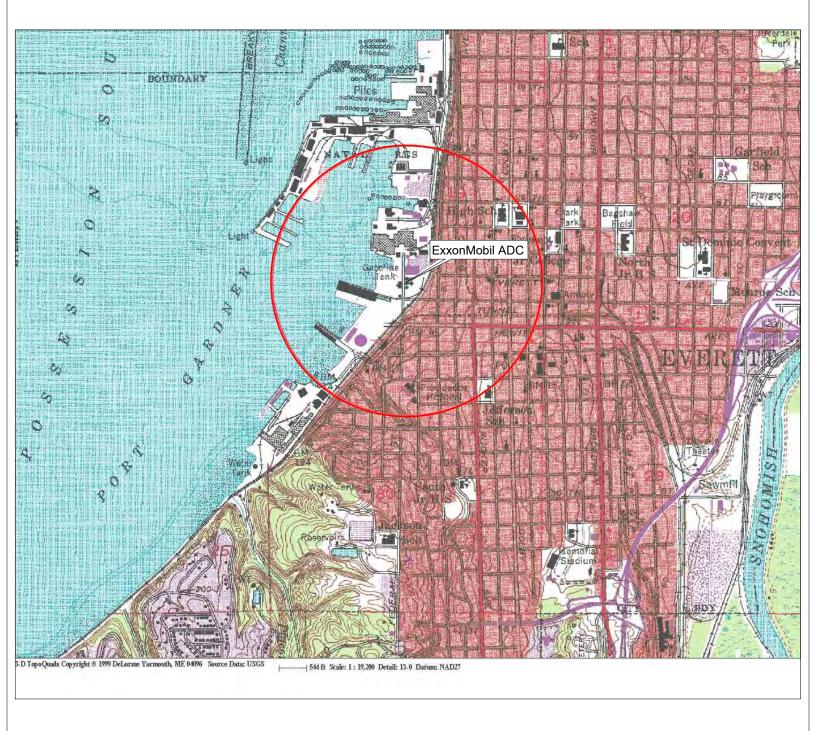
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FN 2380003370001

APPROXIMATE SCALE 1/2-mile radius circle 0 0.5 1 mile



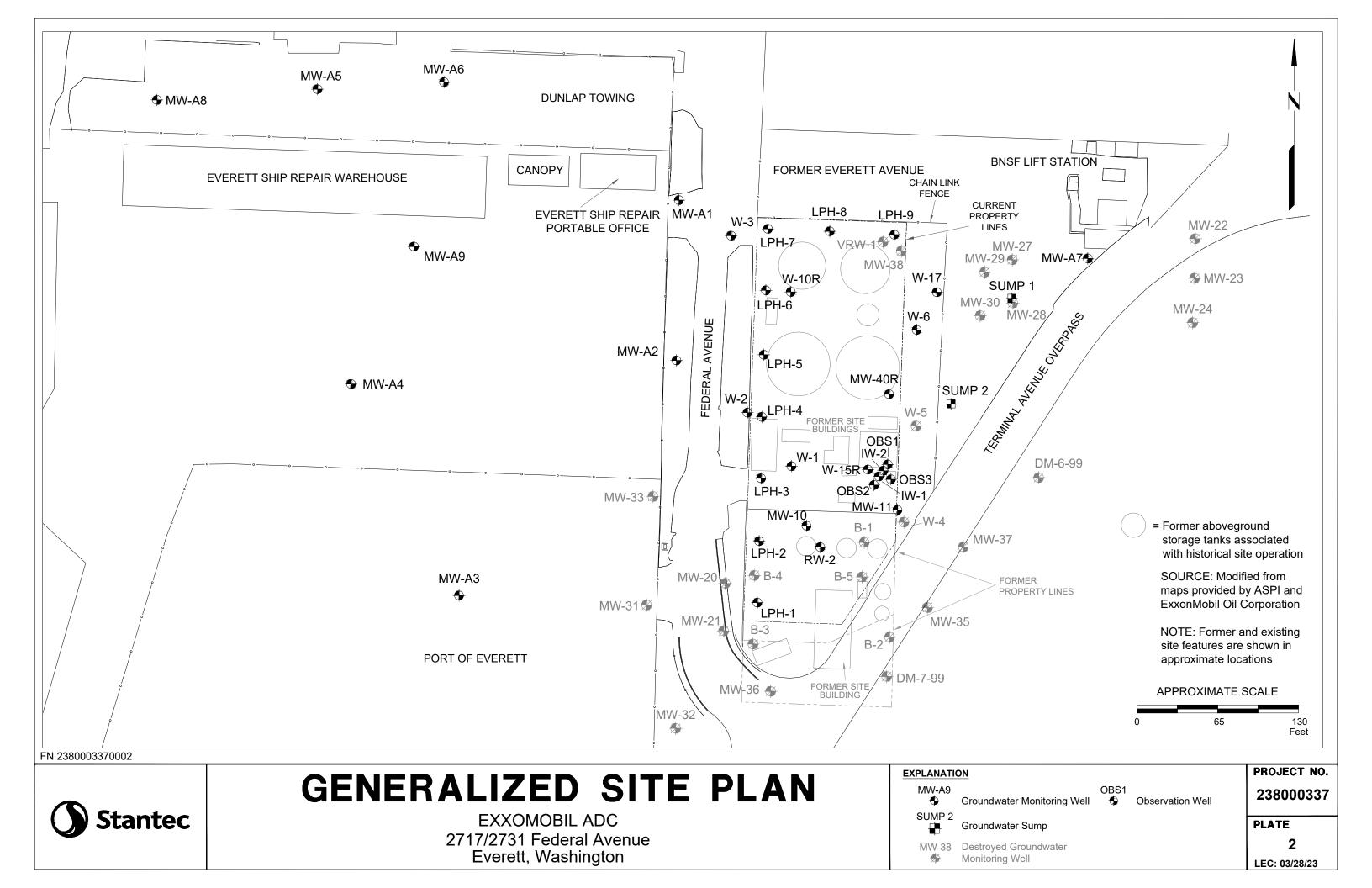
SITE LOCATION MAP

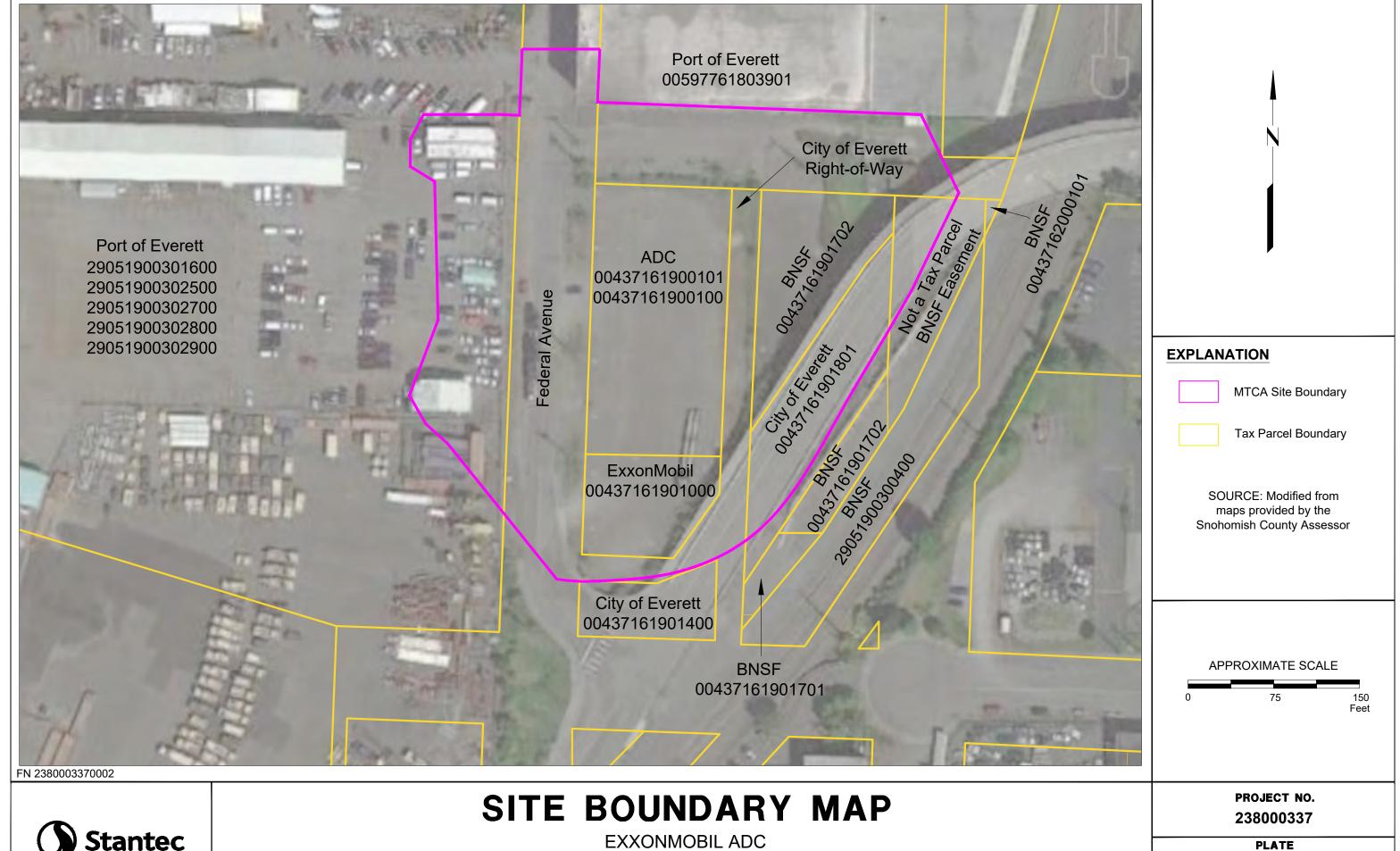
EXXONMOBIL ADC 2717/2731 Federal Avenue Everett, Washington PROJECT NO.

238000337

PLATE 1

LEC: 01/24/23

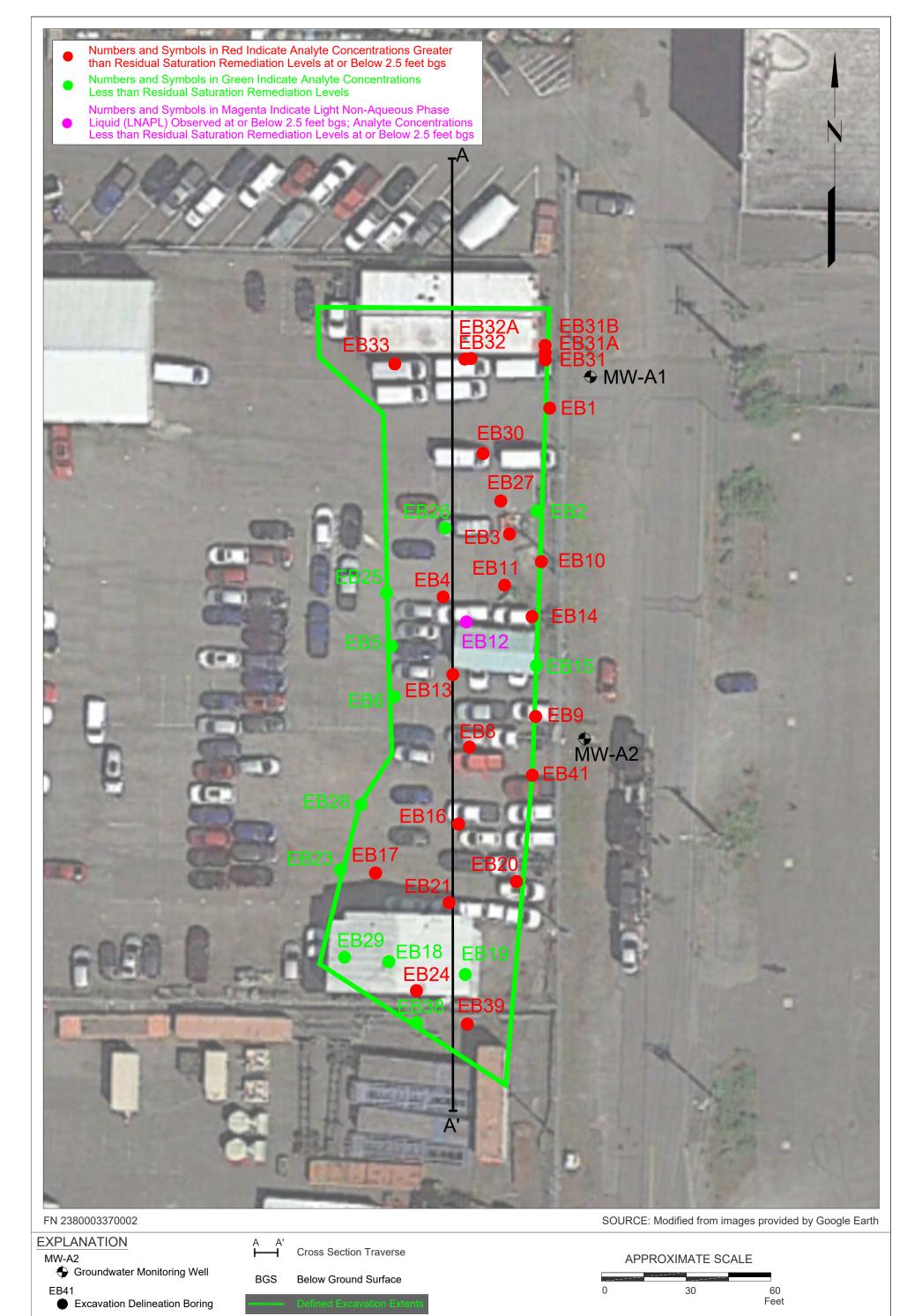






2717/2731 Federal Avenue **Everett, Washington**

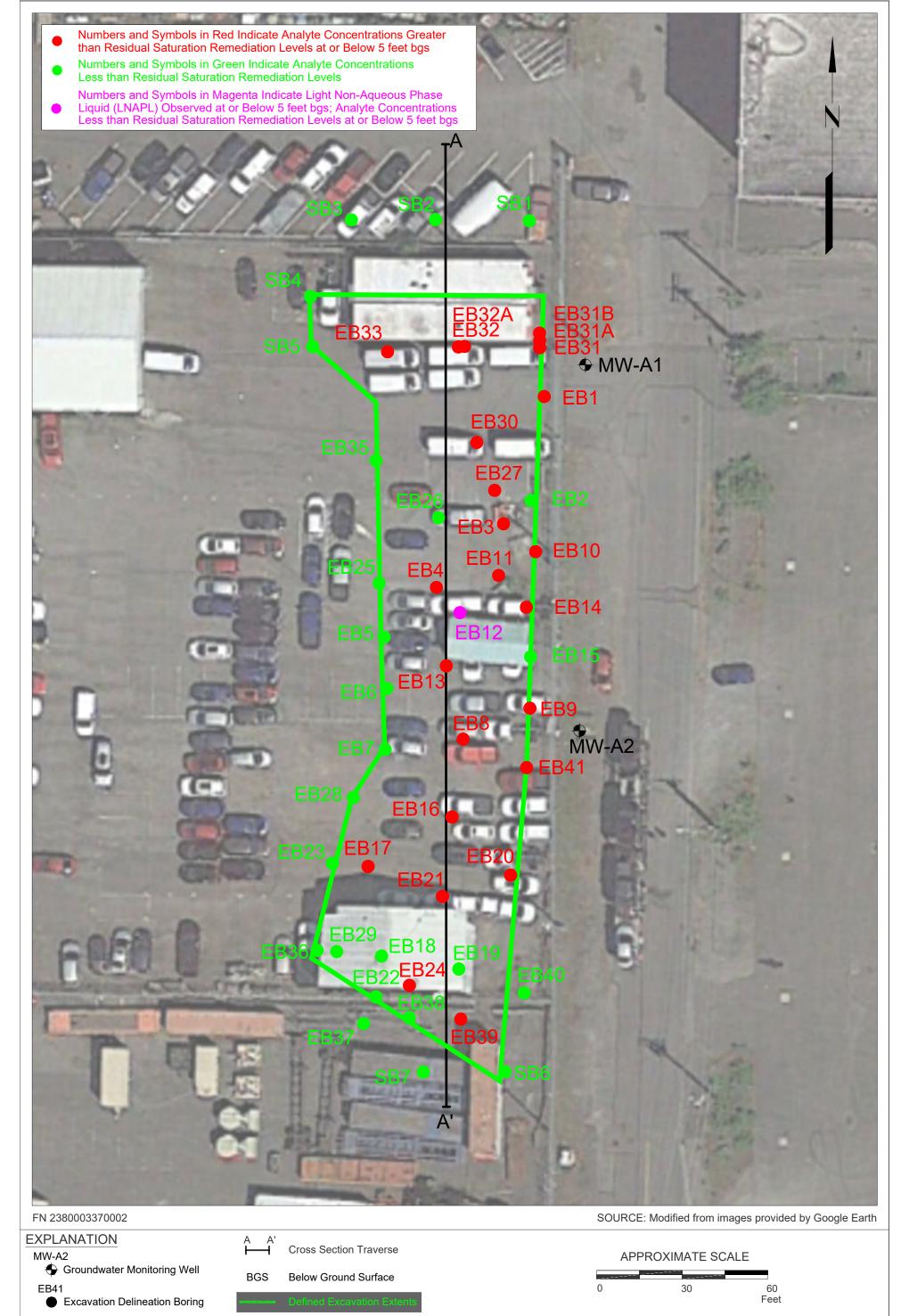
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PORT OF EVERETT EXCAVATION DELINEATION MAP - 2.5 FEET BGS

EXXONMOBIL ADC 2717/2731 Federal Avenue Everett, Washington PROJECT NO. 238000337

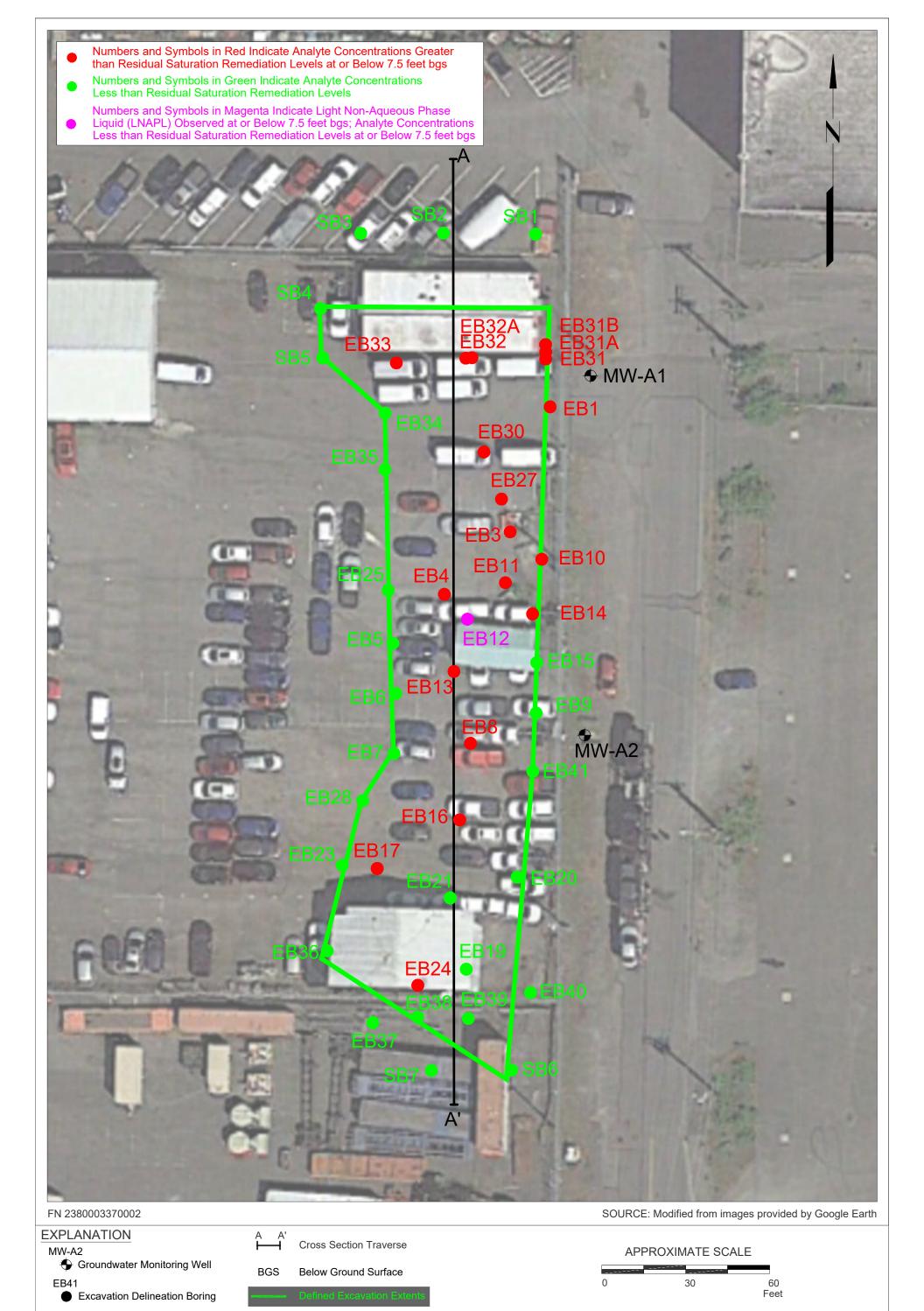
PLATE 4 LEC: 06/28/23



PORT OF EVERETT EXCAVATION DELINEATION MAP - 5 FEET BGS

EXXONMOBIL ADC 2717/2731 Federal Avenue Everett, Washington **PROJECT NO.** 238000337

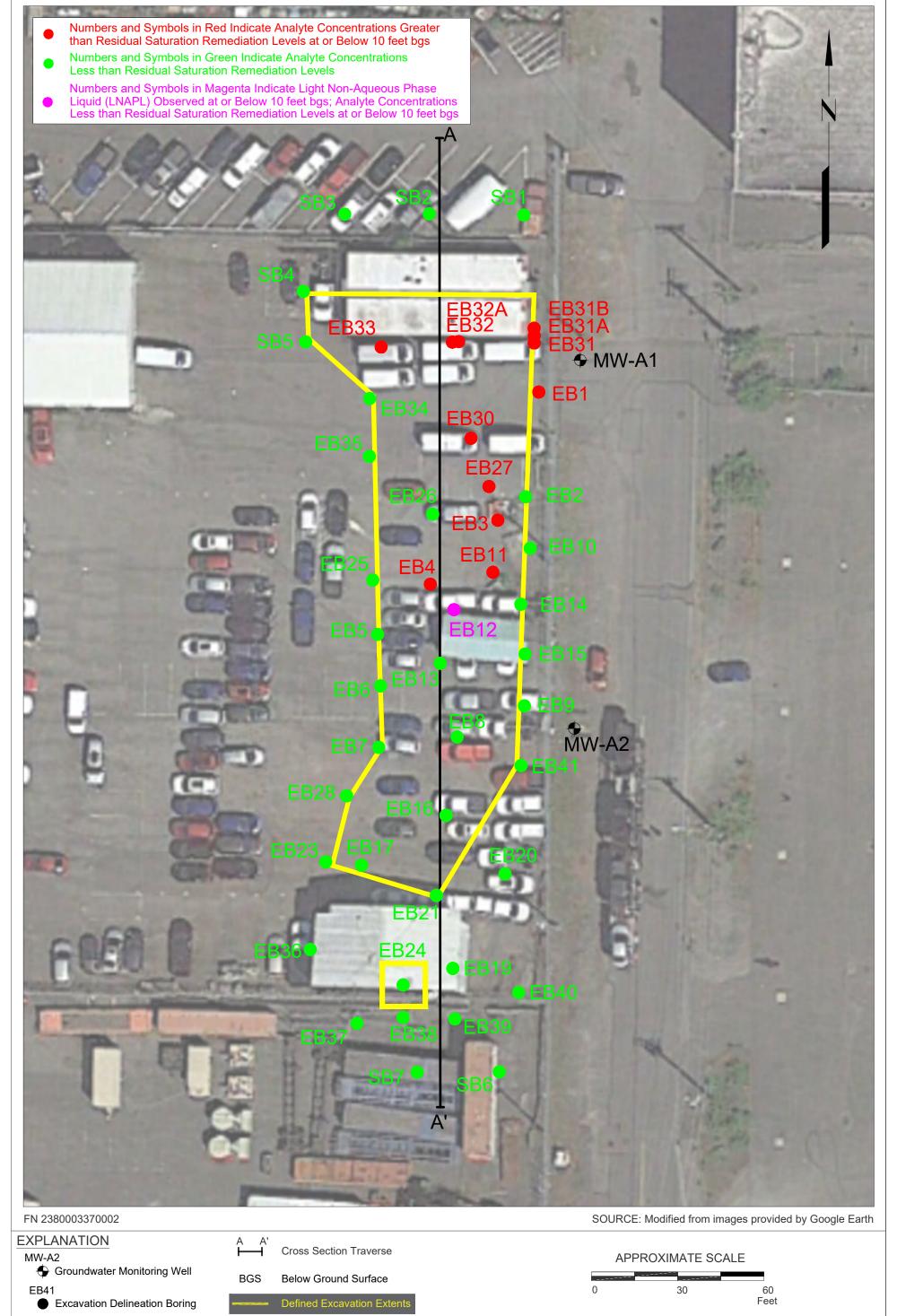
PLATE 5



PORT OF EVERETT EXCAVATION DELINEATION MAP - 7.5 FEET BGS

EXXONMOBIL ADC 2717/2731 Federal Avenue Everett, Washington **PROJECT NO.** 238000337

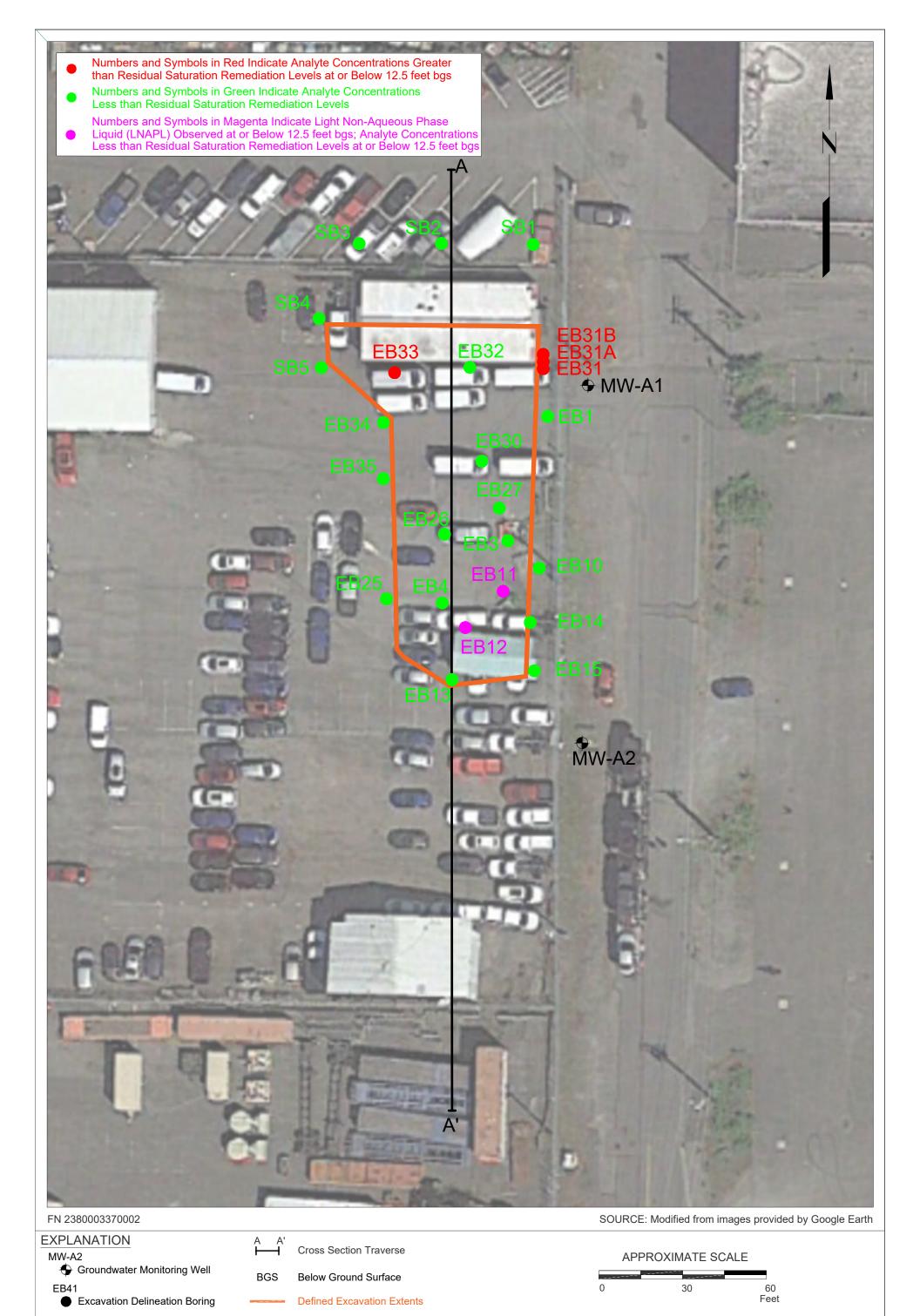
PLATE 6 LEC: 06/28/23



PORT OF EVERETT EXCAVATION DELINEATION MAP - 10 FEET BGS

EXXONMOBIL ADC 2717/2731 Federal Avenue Everett, Washington PROJECT NO. 238000337

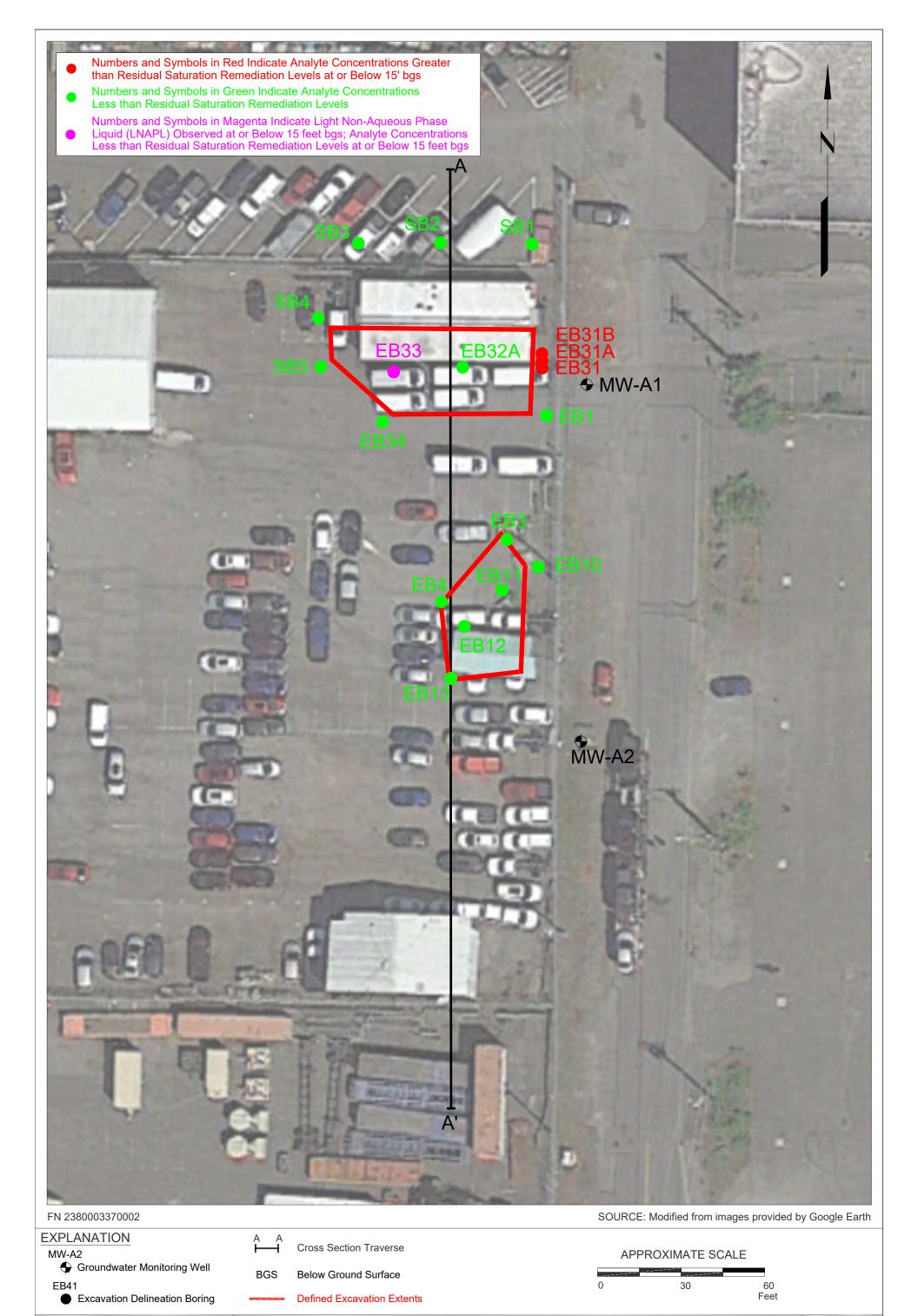
PLATE 7 LEC: 06/28/23



PORT OF EVERETT EXCAVATION DELINEATION MAP - 12.5 FEET BGS

EXXONMOBIL ADC 2717/2731 Federal Avenue Everett, Washington PROJECT NO. 238000337

PLATE 8 LEC: 06/28/23



PORT OF EVERETT EXCAVATION DELINEATION MAP - 15 FEET BGS

PROJECT NO. 238000337

PLATE 9 LEC: 06/28/23



PORT OF EVERETT EXCAVATION DELINEATION MAP - 17.5 FEET BGS

EXXONMOBIL ADC 2717/2731 Federal Avenue Everett, Washington PROJECT NO. 238000337

PLATE 10 LEC: 06/28/23



MW-A2

Groundwater Monitoring Well

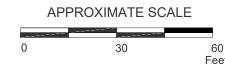
EB41

Excavation Delineation Boring



Cross Section Traverse







PORT OF EVERETT EXCAVATION DELINEATION MAP - 20 FEET BGS

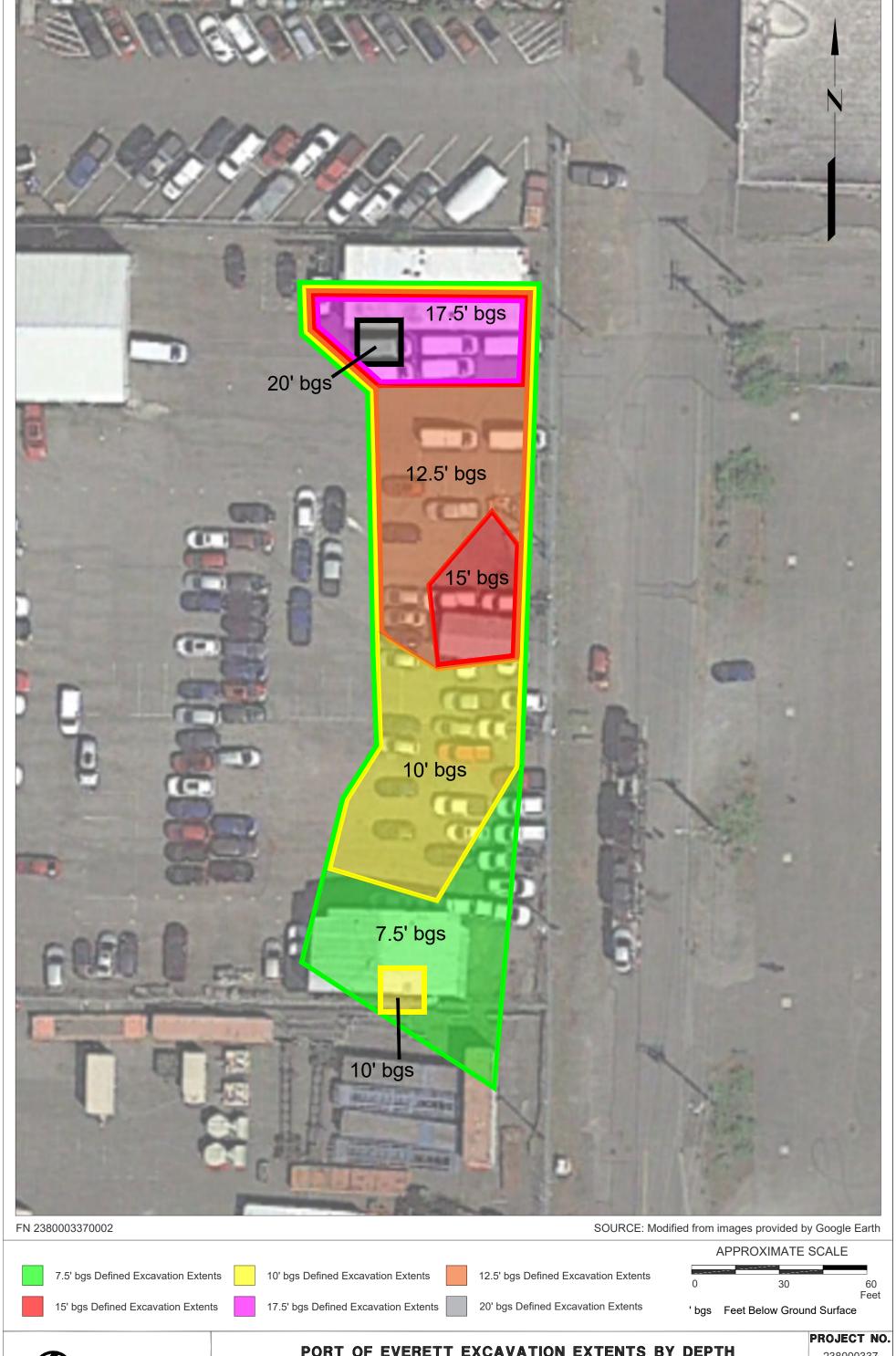
PROJECT NO. 238000337

EXXONMOBIL ADC
2717/2731 Federal Avenue
Everett, Washington

PLATE

11

LEC: 06/28/23



PORT OF EVERETT EXCAVATION EXTENTS BY DEPTH

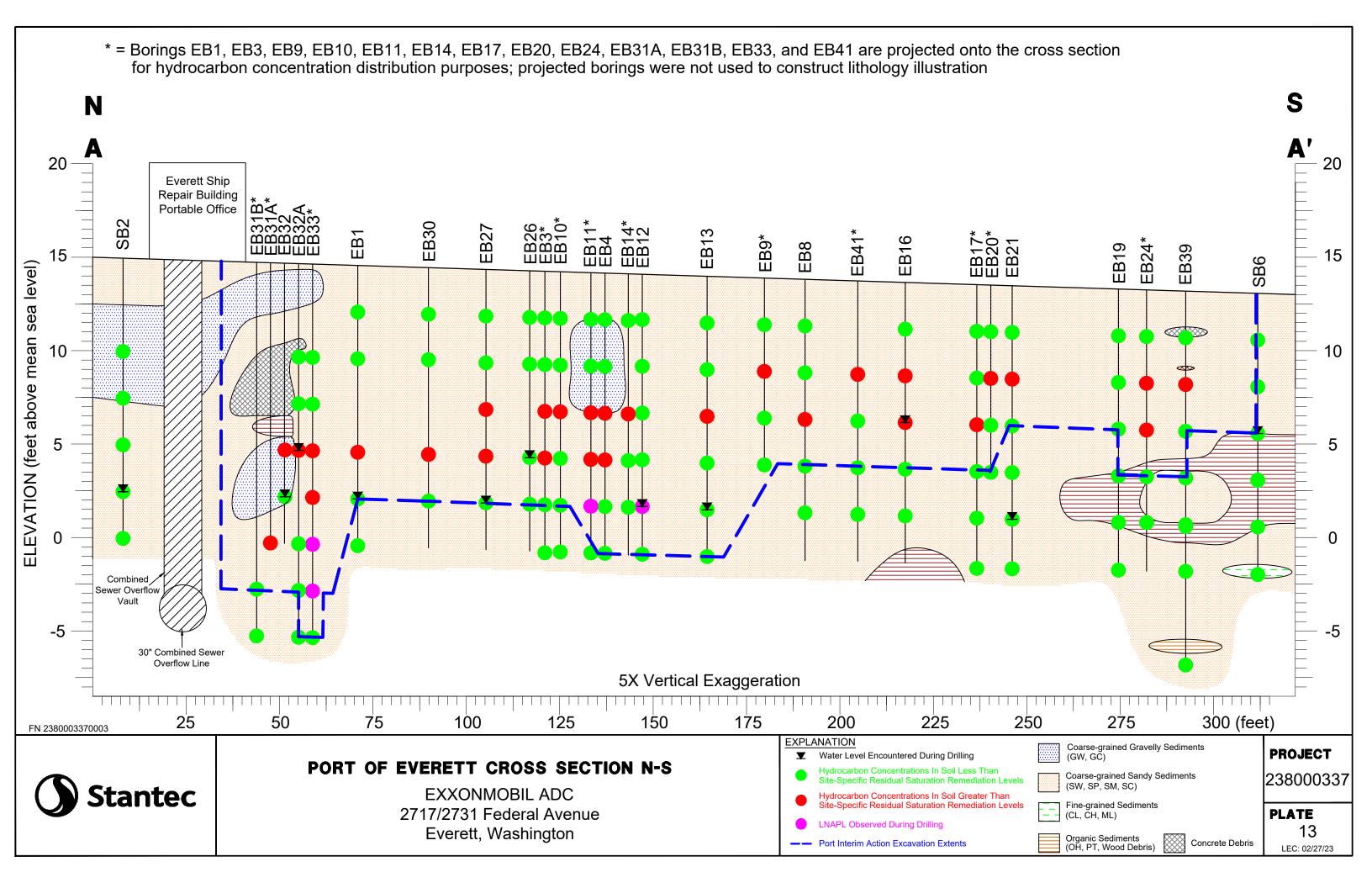
2717/2731 Federal Avenue

Everett, Washington

EXXONMOBIL ADC

238000337

PLATE 12 LEC: 06/28/23

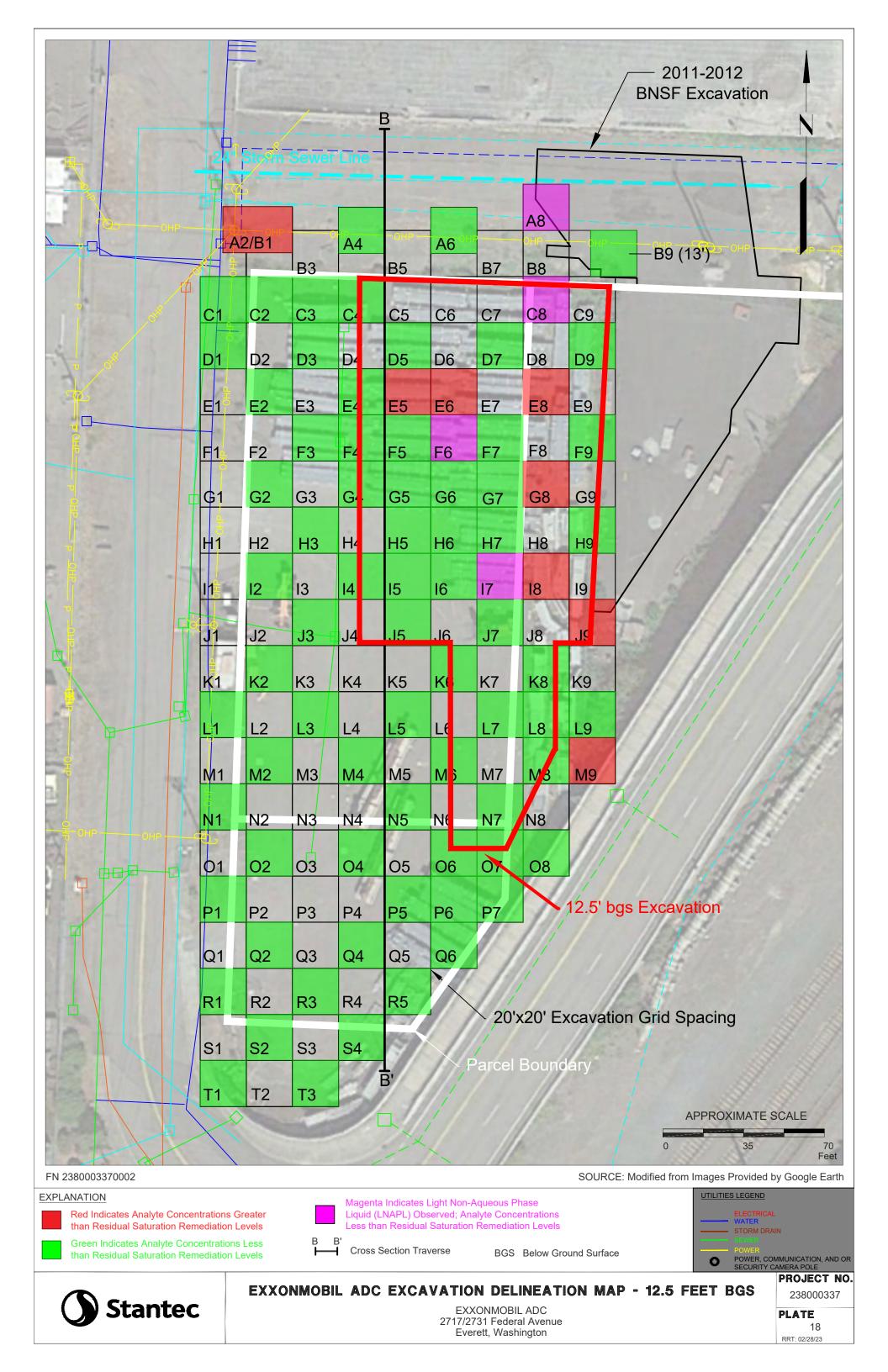


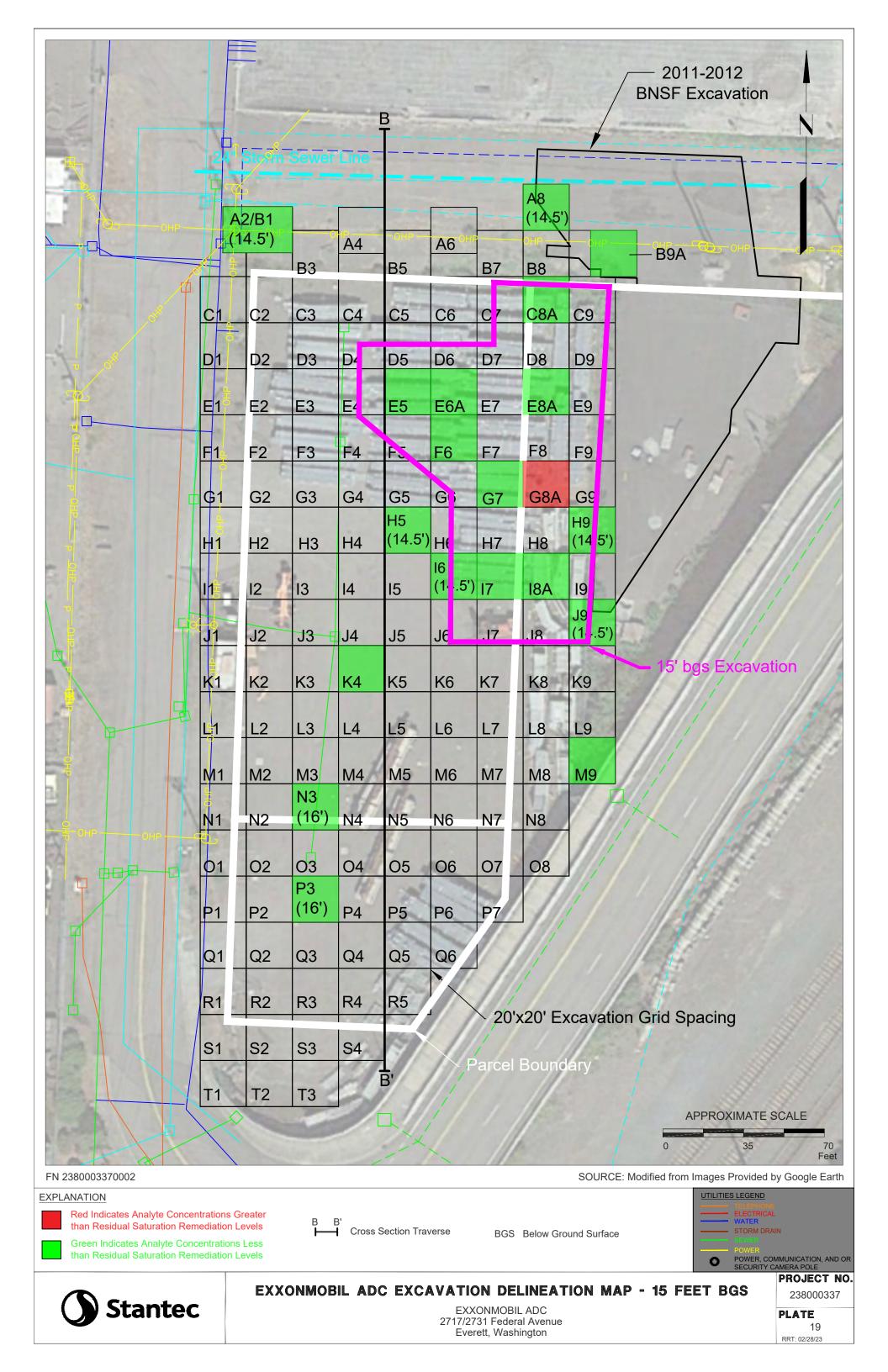




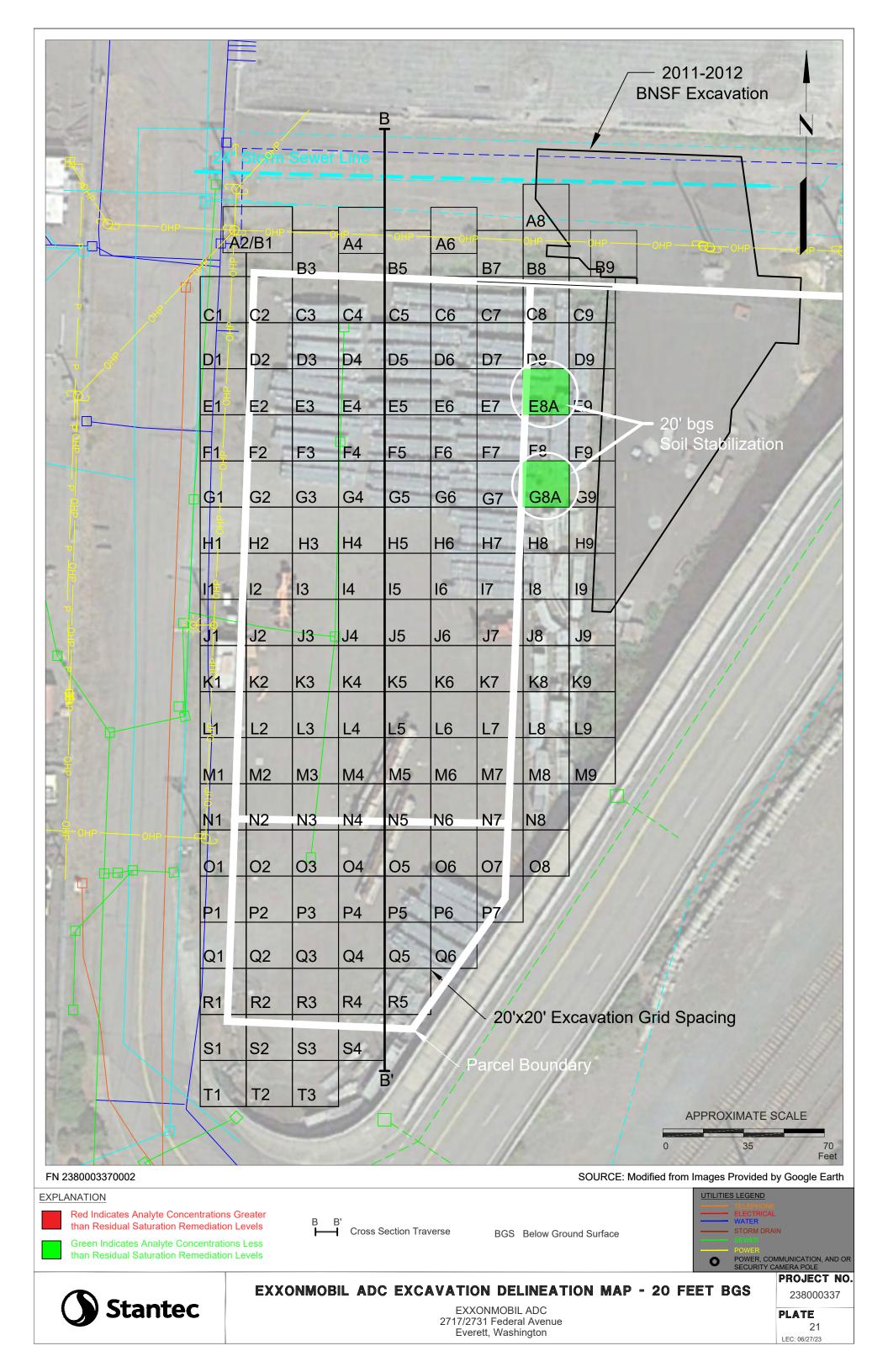


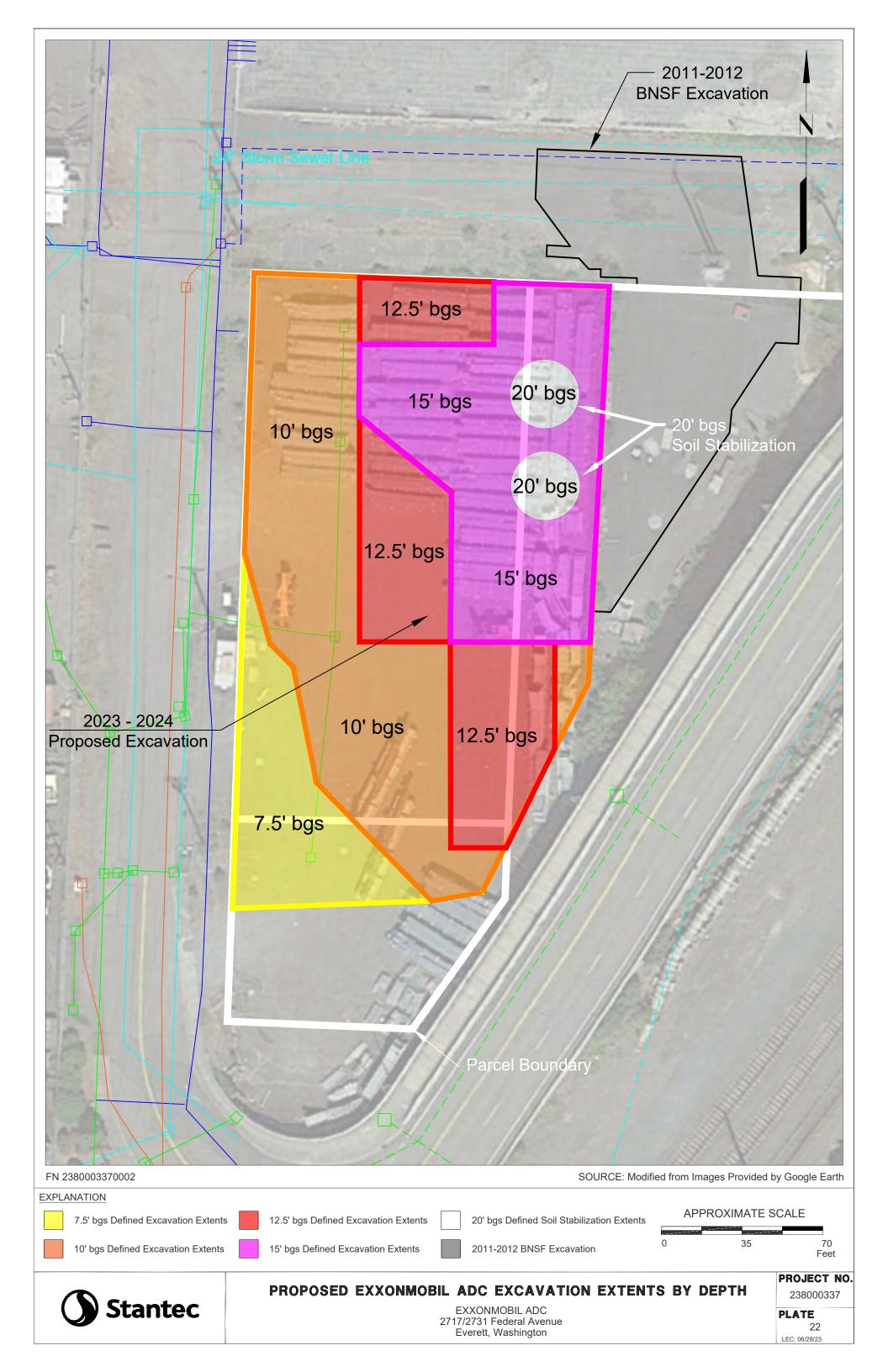


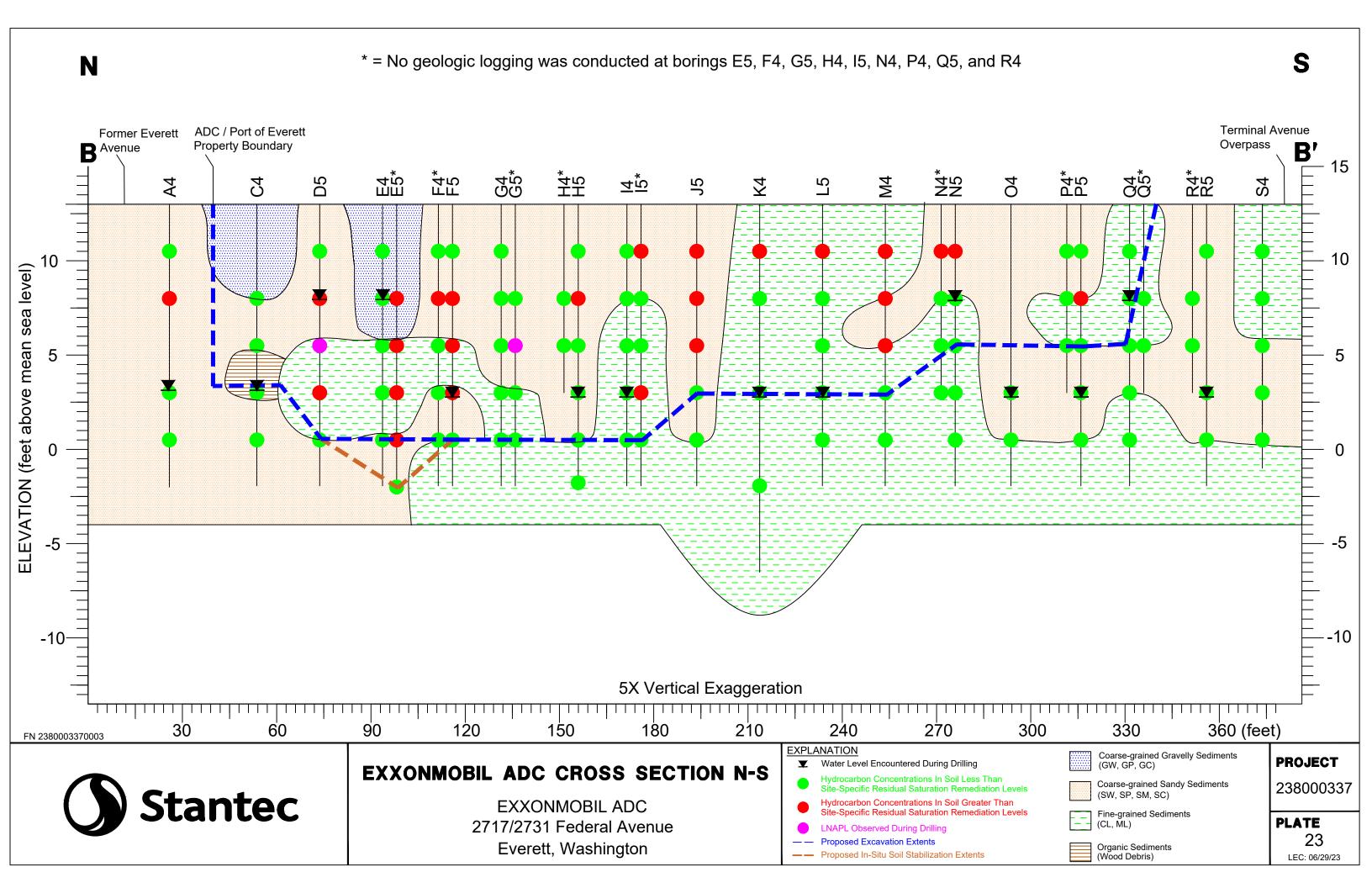












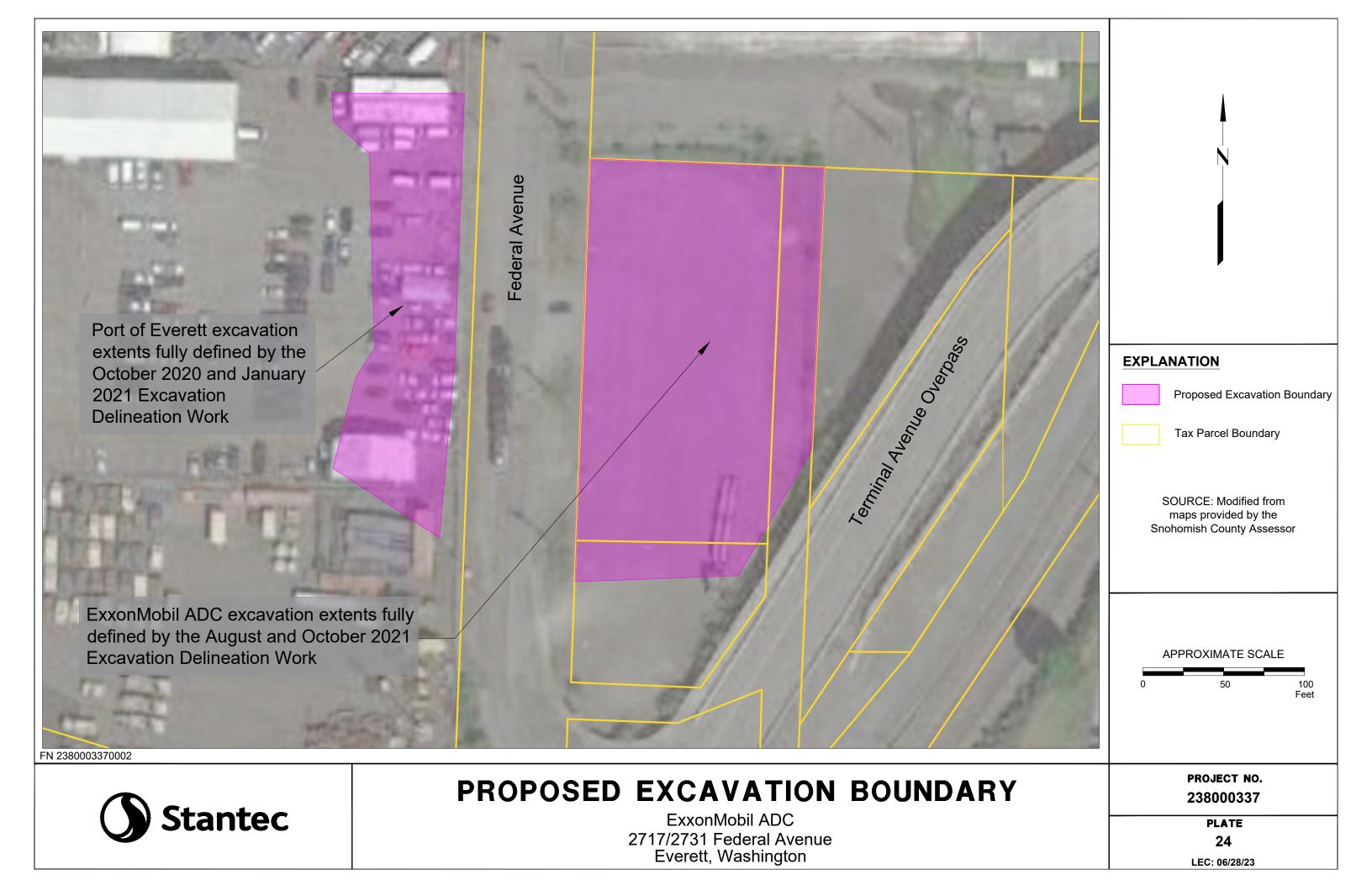


TABLE 1 EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - PORT OF EVERETT

ExxonMobil ADC 2717/2731 Federal Avenue Everett, Washington Page 1 of 7

			Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
Cardno - Port of E				ril 21, 2021:			
S-2.5-EB1	EB1	10/13/20	2.5		<10	<50	<250
S-5-EB1	EB1	10/13/20	5		<10	<50	<250
S-10-EB1	EB1	10/13/20	10		<100	16,000E	<250
S-12.5-EB1	EB1	10/13/20	12.5		<50	3,500	<250
S-15-EB1	EB1	10/13/20	15		<10	<50	<250
S-2.5-EB2	EB2	10/13/20	2.5		<10	<50	<250
S-5-EB2	EB2	10/13/20	5		<10	<50	<250
S-10-EB2	EB2	10/13/20	10		<10	<50	<250
S-2.5-EB3	EB3	10/12/20	2.5		<10	<50	<250
S-5-EB3	EB3	10/12/20	5		<10	<50	<250
S-7.5-EB3	EB3	10/12/20	7.5		<100	43,000	<250
S-10-EB3	EB3	10/12/20	10		<50	15,000	<250
S-12.5-EB3	EB3	10/12/20	12.5		<50	188	<250
S-15-EB3	EB3	10/12/20	15		<10	<50	<250
S-2.5-EB4	EB4	10/12/20	2.5		<10	<50	<250
S-5-EB4	EB4	10/12/20	5		18	4,700	<250
S-7.5-EB4	EB4	10/12/20	7.5		<100	36,000	<250
S-10-EB4	EB4	10/12/20	10		<100	5,500E	<250
S-12.5-EB4	EB4	10/12/20	12.5		<50	4,400	<250
S-15-EB4	EB4	10/12/20	15		<10	<50	<250
S-2.5-EB5	EB5	10/12/20	2.5		<10	<50	<250
S-5-EB5	EB5	10/12/20	5		<10	<50	<250
S-7.5-EB5	EB5	10/12/20	7.5		<10	<50	<250
S-10-EB5	EB5	10/12/20	10		<10	51	<250
S-2.5-EB6	EB6	10/12/20	2.5		<10	<50	<250
S-5-EB6	EB6	10/12/20	5		<10	<50	<250
S-7.5-EB6	EB6	10/12/20	7.5		<10	<50	<250
S-10-EB6	EB6	10/12/20	10		<10	<50	<250
S-5-EB7	EB7	10/12/20	5		<10	<50	<250
S-7.5-EB7	EB7	10/12/20	7.5		<10	74	<250
S-10-EB7	EB7	10/12/20	10		<10	<50	<250
S-2.5-EB8	EB8	10/14/20	2.5		<10	<50	<250
S-5-EB8	EB8	10/14/20	5		<10	2,600	4,300
S-7.5-EB8	EB8	10/14/20	7.5		<10	7,400	13,000
S-10-EB8	EB8	10/14/20	10		<20	1,800	1,300
S-12.5-EB8	EB8	10/14/20	12.5		<10	<50	<250
S-2.5-EB9	EB9	10/14/20	2.5		<10	<50	<250
S-5-EB9	EB9	10/14/20	5		<50	2,700	11,000E
S-7.5-EB9	EB9	10/14/20	7.5		<10	<50	<250
S-10-EB9	EB9	10/14/20	10		<10	<50	<250
S-2.5-EB10	EB10	10/14/20	2.5		<10	<50	<250
S-5-EB10	EB10	10/14/20	5		<10	<50	<250
Site-Specific Resid	ual Saturation	Remediation	Levels	<u></u>	2,470	4,800	5,810

TABLE 1 EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - PORT OF EVERETT

ExxonMobil ADC 2717/2731 Federal Avenue Everett, Washington Page 2 of 7

			Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
			· · · · ·				
Cardno - Port of E	verett - Exca	vation Deline	ation Report - Ap	ril 21, 2021 (<u>continued):</u>		
S-7.5-EB10	EB10	10/14/20	7.5		<10	12,000	<250
S-10-EB10	EB10	10/14/20	10		<10	4,300	<250
S-12.5-EB10	EB10	10/14/20	12.5		<10	<50	<250
S-15-EB10	EB10	10/14/20	15		<10	<50	<250
S-2.5-EB11	EB11	10/12/20	2.5		<10	<50	550
S-5-EB11	EB11	10/12/20	5		<100	2,400	<250
S-7.5-EB11	EB11	10/12/20	7.5	Yes	<100	44,000	2,700
S-10-EB11	EB11	10/12/20	10	Yes	<100	11,000	1,300
S-12.5-EB11	EB11	10/12/20	12.5	Yes	<10	370	<250
S-15-EB11	EB11	10/12/20	15		<10	<50	<250
S-2.5-EB12	EB12	10/12/20	2.5		<10	<50	<250
S-5-EB12	EB12	10/12/20	5		<10	160	<250
S-7.5-EB12	EB12	10/12/20	7.5		<10	3,600	<250
S-10-EB12	EB12	10/12/20	10		<100	3,000	<250
S-12.5-EB12	EB12	10/12/20	12.5	Yes	<100	2,000	<250
S-15-EB12	EB12	10/12/20	15		<10	460	<250
S-2.5-EB13	EB13	10/14/20	2.5		<10	<50	<250
S-5-EB13	EB13	10/14/20	5		<50	1,400	1,800
S-7.5-EB13	EB13	10/14/20	7.5		190	11,000	1,800
S-10-EB13	EB13	10/14/20	10		<10	320	<250
S-12.5-EB13	EB13	10/14/20	12.5		<10	<50	<250
S-15-EB13	EB13	10/14/20	15		<10	<50	<250
S-2.5-EB14	EB14	10/14/20	2.5		<10	<50	<250
S-7.5-EB14	EB14	10/14/20	7.5		<10	5,000	6,900
S-10-EB14	EB14	10/14/20	10		<10	4,100	1,500
S-12.5-EB14	EB14	10/14/20	12.5		<10	<50	<250
S-2.5-EB15	EB15	10/14/20	2.5		<10	<50	<250
S-5-EB15	EB15	10/14/20	5		<10	1,100	2,000
S-7.5-EB15	EB15	10/14/20	7.5		19	2,200	260
S-10-EB15	EB15	10/14/20	10		<10	<50	<250
S-12.5-EB15	EB15	10/14/20	12.5		<10	<50	<250
S-2.5-EB16	EB16	10/13/20	2.5		<10	<50	<250
S-5-EB16	EB16	10/13/20	5		<100	4,800	1,100
S-7.5-EB16	EB16	10/13/20	7.5		<100	9,700	3,900
S-10-EB16	EB16	10/13/20	10		<10	170	<250
S-12.5-EB16	EB16	10/13/20	12.5		<10	<50	<250
S-2.5-EB17	EB17	10/13/20	2.5		<10	<50	<250
S-5-EB17	EB17	10/13/20	5		<10	<50	<250
S-7.5-EB17	EB17	10/13/20	7.5		11	33,000	<250
S-10-EB17	EB17	10/13/20	10		<50	2,600	<250
S-12.5-EB17	EB17	10/13/20	12.5		<10	<50	<250
S-15-EB17	EB17	10/13/20	15		<10	<50	<250
Site-Specific Resid					2,470	4,800	5,810

TABLE 1 EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - PORT OF EVERETT

ExxonMobil ADC 2717/2731 Federal Avenue Everett, Washington Page 3 of 7

				111451	TDU	TDILL	TDU
Sample Name	Location	Date	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
			(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
Cardno - Port of E	Everett - Exca	vation Deline	ation Report - Ap	oril 21, 2021 (c	continued):		
S-5-EB18	EB18	10/13/20	5		<10	450	210J
S-2.5-EB19	EB19	10/13/20	2.5		<10	<50	<250
S-5-EB19	EB19	10/13/20	5		<50	1,900	360
S-7.5-EB19	EB19	10/13/20	7.5		<50	4,500	760
S-10-EB19	EB19	10/13/20	10		<10	<50	<250
S-12.5-EB19	EB19	10/13/20	12.5		<10	<50	<250
S-15-EB19	EB19	10/13/20	15		<10	<50	<250
S-2.5-EB20	EB20	10/13/20	2.5		<10	170	<250
S-5-EB20	EB20	10/13/20	5		<10	8,400	2,200
S-7.5-EB20	EB20	10/13/20	7.5		<10	180	<250
S-10-EB20	EB20	10/13/20	10		<10	<50	<250
S-2.5-EB21	EB21	10/13/20	2.5		<10	<50	<250
S-5-EB21	EB21	10/13/20	5		<10	8,100	12,000
S-7.5-EB21	EB21	10/13/20	7.5		<50	3,700	640
S-10-EB21	EB21	10/13/20	10		<10	<50	<250
S-12.5-EB21	EB21	10/13/20	12.5		<10	<50	<250
S-15-EB21	EB21	10/13/20	15		<10	<50	<250
S-5-EB22	EB22	10/13/20	5		<10	<50	<250
S-2.5-EB23	EB23	10/13/20	2.5		<10	<50	<250
S-5-EB23	EB23	10/13/20	5		<10	<50	<250
S-7.5-EB23	EB23	10/13/20	7.5		<10	<50	<250
S-10-EB23	EB23	10/13/20	10		<10	4,100	<250
S-12.5-EB23	EB23	10/13/20	12.5		<10	62	<250
S-2.5-EB24	EB24	10/13/20	2.5		<10	<50	<250
S-5-EB24	EB24	10/13/20	5		<50	<50	6,300
S-7.5-EB24	EB24	10/13/20	7.5		<10	8,100	1,200
S-10-EB24	EB24	10/13/20	10		<10	2,300	<250
S-12.5-EB24	EB24	10/13/20	12.5		<10	<50	<250
S-2.5-EB25	EB25	10/13/20	2.5		<10	<50	<250
S-5-EB25	EB25	10/13/20	5		<10	<50	<250
S-7.5-EB25	EB25	10/13/20	7.5		<10	<50	<250
S-10-EB25	EB25	10/13/20	10		<10	2,400	860
S-12.5-EB25	EB25	10/13/20	12.5		<10	<50	<250
S-15-EB25	EB25	10/13/20	15			<50	<250
S-2.5-EB26	EB26	10/14/20	2.5		<10	<50	<250
S-5-EB26	EB26	10/14/20	5		<10	76	<250
S-10-EB26	EB26	10/14/20	10		<20	1,600	<250
S-12.5-EB26	EB26	10/14/20	12.5		<10	<50	<250
S-2.5-EB27	EB27	10/14/20	2.5		<10	<50	<250
S-5-EB27	EB27	10/14/20	5		<10	<50	<250
S-7.5-EB27	EB27	10/14/20	7.5		<100	10,000	11,000
S-10-EB27	EB27	10/14/20	10		<100	9,100E	<250
Site-Specific Resid	ual Saturation	Remediation	Levels		2,470	4,800	5,810

TABLE 1 EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - PORT OF EVERETT

ExxonMobil ADC 2717/2731 Federal Avenue Everett, Washington Page 4 of 7

				, 4 01 7			
Sample Name	Location	Date	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
·			(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
Cardno - Port of E							.050
S-12.5-EB27	EB27	10/14/20	12.5		<10	<50	<250
S-2.5-EB28	EB28	10/14/20	2.5		<10	<50	<250
S-5-EB28	EB28	10/14/20	5		<10	<50	<250
S-7.5-EB28	EB28	10/14/20	7.5		<10	<50	<250
S-10-EB28	EB28	10/14/20	10		<50	<50	<250
S-2.5-EB29	EB29	10/14/20	2.5		<10	<50	<250
S-5-EB29	EB29	10/14/20	5		<10	<50	<250
S-2.5-EB30	EB30	10/14/20	2.5		<10	<50	<250
S-5-EB30	EB30	10/14/20	5		<10	<50	560
S-10-EB30	EB30	10/14/20	10		<100	39,000	<250
S-12.5-EB30	EB30	10/14/20	12.5		<10	<50	<250
S-5-EB31	EB31	01/25/21	5		<10	<50	<250
S-7.5-EB31	EB31	01/25/21	7.5		<10	<50	<250
S-9.5-EB31	EB31	01/25/21	9.5		<100	3,400	<250
S-15-EB31A	EB31A	01/27/21	15		<100	7,000E	<250
S-17.5-EB31B	EB31B	01/27/21	17.5		<10	<50	<250
S-20-EB31B	EB31B	01/27/21	20		<10	<50	<250
S-10-EB32	EB32	01/25/21	10		<10	6,200	<250
S-10-EB32 ^b	EB32	01/25/21	10			4,700	<250
S-10-EB32	EB32	01/25/21	12.5		<10	410	<250
S-12.5-EB32 ^b	EB32	01/25/21	12.5		-10	340	<250
S-12.5-EB32 S-5-EB32A	EB32A	01/23/21	5		<10	56	<250
	EB32A	01/27/21	7.5		<25		290
S-7.5-EB32A						2,040	
S-10-EB32A	EB32A	01/27/21	10		<10	6,100	<250
S-15-EB32A	EB32A	01/27/21	15		<10	<50	<250
S-17.5-EB32A	EB32A	01/27/21	17.5		<10	<50	<250
S-20-EB32A	EB32A	01/27/21	20		<10	<50	<250
S-5-EB33	EB33	01/25/21	5		<10	<50	<250
S-7.5-EB33	EB33	01/25/21	7.5		<10	<50	<250
S-10-EB33	EB33	01/25/21	10	Yes	<40	28,000	1,580
S-12.5-EB33	EB33	01/25/21	12.5	Yes	<10	21,000E	<250
S-15-EB33	EB33	01/25/21	15	Yes	<1,000	150	<250
S-17.5-EB33	EB33	01/25/21	17.5	Yes	<10	63	<250
S-20-EB33	EB33	01/25/21	20		<10	<50	310
S-7.5-EB34	EB34	01/25/21	7.5		<10	<50	<250
S-10-EB34	EB34	01/25/21	10		<10	2,100	<250
S-12.5-EB34	EB34	01/25/21	12.5		<50	1,600	760
S-15-EB34	EB34	01/25/21	15		<10	<50	<250
S-17.5-EB34	EB34	01/25/21	17.5		<10	<50	<250
S-20-EB34	EB34	01/25/21	20	_ -	<10	<50	<250
					<10		
S-5-EB35	EB35	01/25/21	5			<50	<250
S-7.5-EB35	EB35	01/25/21	7.5		<10	<50	<250
Site-Specific Resid	ual Saturation	Remediation	Leveis		2,470	4,800	5,810

TABLE 1 EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - PORT OF EVERETT

ExxonMobil ADC 2717/2731 Federal Avenue Everett, Washington Page 5 of 7

Sample Name	Location	Date	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
•			(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
ardno - Port of E	verett - Exca	vation Deline	ation Report - Ap	ril 21, 2021 (c	continued):		
S-10-EB35	EB35	01/25/21	10		<10	<50	<250
S-12.5-EB35	EB35	01/25/21	12.5		<15	520	430
S-15-EB35	EB35	01/25/21	15		<10	<50	<250
S-5-EB36	EB36	01/26/21	5		<10	<50	<250
S-7.5-EB36	EB36	01/26/21	7.5		<10	<50	<250
S-10-EB36	EB36	01/26/21	10		<10	<50	<250
S-12.5-EB36	EB36	01/26/21	12.5		<10	<50	<250
S-5-EB37	EB37	01/27/21	5		<10	<50	<250
S-7.5-EB37	EB37	01/27/21	7.5		<10	<50	<250
S-10-EB37	EB37	01/27/21	10		<10	<50	<250
S-12.5-EB37	EB37	01/27/21	12.5		<10	<50	<250
S-2.5-EB38	EB38	01/27/21	2.5		<10	<50	490
S-5-EB38	EB38	01/27/21	5		<10	<50	<250
S-7.5-EB38	EB38	01/27/21	7.5		<10	<50	<250
S-10-EB38	EB38	01/27/21	10		<10	<50	<250
S-12.5-EB38	EB38	01/27/21	12.5		<10	<50	<250
S-15-EB38	EB38	01/27/21	15		<10	<50	<250
S-2.5-EB39	EB39	01/27/21	2.5		<10	2,200	<250
S-2.5-EB39	EB39	01/27/21	2.5		<10	2,200	<250
S-5-EB39	EB39	01/27/21	5		<10	5,600	<250
S-5-EB39 ^b	EB39	01/27/21	5			4,500	<250
S-7.5-EB39	EB39	01/27/21	7.5		<50	2,200	<250
S-10-EB39	EB39	01/27/21	10		<10	<50	<250
S-12.5-EB39	EB39	01/27/21	12.5		<10	<50	<250
S-15-EB39	EB39	01/27/21	15		<10	<50	<250
S-20-EB39	EB39	01/27/21	20		<10	<50	<250
S-5-EB40	EB40	01/26/21	5		<10	490a	<250
S-7.5-EB40	EB40	01/26/21	7.5		<10	<50	<250
S-10-EB40	EB40	01/26/21	10	 	<10	<50	<250
S-10-LB40 S-12.5-EB40	EB40	01/26/21	12.5		<10	<50	<250
S-5-EB41	EB41	01/20/21	5		<15	9,300	6,700
S-7.5-EB41	EB41	01/27/21	7.5		<10	630	310
S-10-EB41	EB41	01/27/21	10		<10	<50	<250
S-10-EB41 S-12.5-EB41	EB41	01/27/21	12.5		<10	<50 <50	<250 <250
S-12.5-EB41 S-5-SB1	SB1	01/27/21	12.5 5		<10 <10	<50 <50	<250 <250
					<10 <10		<250 660
S-7.5-SB1 S-10-SB1	SB1	01/26/21	7.5			110	
	SB1	01/26/21	10 12.5		<10	<50	<250
S-12.5-SB1	SB1	01/26/21	12.5		<10	<50	<250
S-15-SB1	SB1	01/26/21	15		<10	<50	<250
S-5-SB2	SB2	01/26/21	5		<10	<50	790
S-7.5-SB2	SB2	01/26/21	7.5		<10	<50	<250
S-10-SB2	SB2	01/26/21	10		<10	<50	<250
ite-Specific Resid	ual Saturation	Remediation	Levels		2,470	4,800	5,810

TABLE 1 EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - PORT OF EVERETT

ExxonMobil ADC 2717/2731 Federal Avenue Everett, Washington Page 6 of 7

Sample Name	Location	Date	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
Cardno - Port of E				ril 21, 2021 (c			
S-12.5-SB2	SB2	01/26/21	12.5		<10	<50	<250
S-15-SB2	SB2	01/26/21	15		<10	<50	<250
S-5-SB3	SB3	01/26/21	5		<10	440	2,200
S-7.5-SB3	SB3	01/26/21	7.5		<10	<50	<250
S-10-SB3	SB3	01/26/21	10		<10	130	680
S-12.5-SB3	SB3	01/26/21	12.5		<10	<50	<250
S-15-SB3	SB3	01/26/21	15		<10	<50	<250
S-20-SB3	SB3	01/26/21	20		<10	<50	<250
S-5-SB4	SB4	01/25/21	5		<10	<50	<250
S-7.5-SB4	SB4	01/25/21	7.5		<10	<50	<250
S-10-SB4	SB4	01/25/21	10		<10	3,900	<250
S-12.5-SB4	SB4	01/25/21	12.5		<50	1,700	<250
S-15-SB4	SB4	01/25/21	15		<10	56	<250
S-17.5-SB4	SB4	01/25/21	17.5		<10	<50	<250
S-20-SB4	SB4	01/25/21	20		<20	610	<250
S-5-SB5	SB5	01/26/21	5		<10	<50	1,630
S-7.5-SB5	SB5	01/26/21	7.5		<10	<50	<250
S-10-SB5	SB5	01/26/21	10		<10	<50	760
S-12.5-SB5	SB5	01/26/21	12.5		<10	<50	<250
S-15-SB5	SB5	01/26/21	15		<10	82	580
S-17.5-SB5	SB5	01/26/21	17.5		<10	<50	<250
S-20-SB5	SB5	01/26/21	20		<10	<50	<250
S-2.5-SB6	SB6	02/05/21	2.5		<10	2,800	<250
S-5-SB6	SB6	02/05/21	5		<10	57	<250
S-7.5-SB6	SB6	02/05/21	7.5		<10	<50	<250
S-10-SB6	SB6	02/05/21	10		<10	<50	<250
S-12.5-SB6	SB6	02/05/21	12.5		<10	<50	<250
S-15-SB6	SB6	02/05/21	15		<10	<50	<250
S-5-SB7	SB7	02/05/21	5		<10	<50	<250
S-7.5-SB7	SB7	02/05/21	7.5		<10	<50	<250
S-10-SB7	SB7	02/05/21	10		<10	<50	<250
S-12.5-SB7	SB7	02/05/21	12.5		<10	<50	<250
S-15-SB7	SB7	02/05/21	15		<10	<50	<250

Site-Specific Residual Saturation Remediation Levels	2.470	4.800	5.810

TABLE 1 EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - PORT OF EVERETT

ExxonMobil ADC 2717/2731 Federal Avenue Everett, Washington Page 7 of 7

Sample Name	Location	Date	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)

EXPLANATION:

feet bgs = Feet below ground surface

mg/kg = Milligrams per kilogram

LNAPL = Light Non-aqueous Phase Liquid

TPHg = Total Petroleum Hydrocarbons as Gasoline in accordance with Ecology Method NWTPH-Gx

TPHd, TPHmo = Total Petroleum Hydrocarbons as Diesel and as Oil, respectively, in accordance with Ecology Method NWTPH-Dx

All TPHd and TPHmo samples analyzed with silica gel cleanup

N/A = Not applicable

- < = Less than the stated laboratory reporting limit
- -- = Not Observed; Not Analyzed

Shaded values equal or exceed Site-Specific Residual Saturation Remediation Level

- a = Indicates light diesel range
- b = Sample reanalyzed by laboratory
- E = Reported result exceeds the calibration range and is an estimate
- J = Indicates analyte was positively identified. Reported result is an estimate.

ExxonMobil ADC 2717/2731 Federal Avenue Everett, Washington Page 1 of 14

			Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
-			, ,		(0 0)	ν σ σ,	(0 0)
Stantec - Site Cha	racterization	Focused Fea	sibility Study Add	dendum - Ma	ay 25, 2023:		
S-2.5-A2	A2	08/11/21	2.5		<0.26	<5.5	<5.5
S-5-A2	A2	08/11/21	5		250	340	45
S-7.5-A2	A2	08/11/21	7.5		520	7,400	650
S-10-A2	A2	08/11/21	10		76	260	44
S-12.5-A2	A2	08/11/21	12.5	Yes	570	11,000	2,200
S-14.5-A2	A2	08/11/21	14.5		<0.13	<6.3	11
S-2.5-A4	A4	08/11/21	2.5		<0.24	<5.5	110
S-5-A4	A4	08/11/21	5		300	8,700	1,500
S-10-A4	A4	08/11/21	10		72	270	74
S-12.5-A4	A4	08/11/21	12.5		0.42	<7.8	<7.8
S-2.5-A6	A6	08/12/21	2.5	Yes	520	7,300	1,600
S-5-A6	A6	08/12/21	5	Yes	220	1,700	410
S-7.5-A6	A6	08/12/21	7.5	Yes	450	6,700	3,500
S-10-A6	A6	08/12/21	10		5.2	8.1	11
S-12.5-A6	A6	08/12/21	12.5		0.40	83	55
S-2.5-A8	A8	08/16/21	2.5		20	69	29
S-10-A8	A8	08/16/21	10	Yes	160	580	260
S-12.5-A8	A8	08/16/21	12.5	Yes	100	630	330
S-14.5-A8	A8	08/16/21	14.5		1.6	85	48
S-2.5-B1	B1	08/11/21	2.5		<0.25	<5.4	6.0
S-5-B1	B1	08/11/21	5		56	6,300	1,600
S-7.5-B1	B1	08/11/21	7.5		5.4	20	17
S-10-B1	B1	08/11/21	10		0.42	<7.2	<7.2
S-12.5-B1	B1	08/11/21	12.5		0.28	<6.1	<6.1
S-2.5-B9	B9	08/12/21	2.5		0.60	23	44
S-5-B9	B9	08/12/21	5		8.0	110	150
S-7.5-B9	B9	08/12/21	7.5		6.9	89	60
S-10-B9	B9	08/12/21	10		35	160	110
S-12.5-B9	В9	08/12/21	12.5	Yes	43	150	120
S-13-B9	В9	08/12/21	13		89	440	270
S-15-B9A	B9A	10/14/21	15		<1.7	<54	<54
S-5-C1	C1	10/15/21	5		260	4,400	1,100
S-5-C1 DUP	C1	10/15/21	5		160	1,500	350
S-7.5-C1	C1	10/15/21	7.5		8.0	47	<11
S-10-C1	C1	10/15/21	10		0.54	<7.3	<7.3
S-12.5-C1	C1	10/15/21	12.5		<0.28	<6.8	<6.8
S-5-C2	C2	08/09/21	5		0.57	<29	500
S-7.5-C2	C2	08/09/21	7.5		<1.3	1,700	660
S-10-C2	C2	08/09/21	10		1.3	27	20
S-12.5-C2	C2	08/09/21	12.5		85	98	42
S-5-C3	C3	10/12/21	5		2.1	290	410
S-7.5-C3	C3	10/12/21	7.5		120	1,200	1,200
Site-Specific Resid	ual Saturation	Remediation	Levels		2,470	4,800	5,810

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-			Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
•			, ,		(0 0/	ν σ σ,	(0 0)
Stantec - Site Cha	racterization	Focused Fea	sibility Study Add	dendum - Ma	ay 25, 2023 (con	<u>tinued):</u>	
S-10-C3	C3	10/12/21	10		<0.30	<6.0	6.6
S-12.5-C3	C3	10/12/21	12.5		0.96	<6.6	<6.6
S-5-C4	C4	08/09/21	5		760	140	38
S-7.5-C4	C4	08/09/21	7.5		22	1,900	410
S-10-C4	C4	08/09/21	10		170	740	240
S-12.5-C4	C4	08/09/21	12.5		0.56	<6.7	7.4
S-2.5-C6	C6	08/09/21	2.5		3.7	1,800	1,300
S-5-C6	C6	08/09/21	5		0.21	290	1,100
S-7.5-C6	C6	08/09/21	7.5	Yes	94	2,800	1,300
S-10-C6	C6	08/09/21	10		29	1,200	520
S-2.5-C8	C8	08/09/21	2.5		1.0	540	160
S-5-C8	C8	08/09/21	5		0.50	<7.3	<7.3
S-7.5-C8	C8	08/09/21	7.5		2.6	53	29
S-10-C8	C8	08/09/21	10	Yes	840	13,000	4,600
S-12.5-C8	C8	08/09/21	12.5	Yes	290	4,000	1,400
S-15-C8A	C8A	10/12/21	15		<0.97	<24	<24
S-2.5-D1	D1	08/09/21	2.5		190	390	440
S-5-D1	D1	08/09/21	5		26	410	94
S-7.5-D1	D1	08/09/21	7.5		25	5,700	1,700
S-10-D1	D1	08/09/21	10		160	400	220
S-10-D1 DUP	D1	08/09/21	10		190	170	72
S-12.5-D1	D1	08/09/21	12.5		0.60	<6.3	<6.3
S-7.5-D1A	D1A	10/15/21	7.5		22	930	360
S-10-D1A	D1A	10/15/21	10		0.62	<6.2	<6.2
S-5-D2	D2	10/12/21	5		200	5,200	3,600
S-7.5-D2	D2	10/12/21	7.5	Yes	540	4,600	2,200
S-10-D2	D2	10/12/21	10		<0.23	<6.3	<6.3
S-2.5-D3	D3	08/09/21	2.5		260	4,100	1,400
S-5-D3	D3	08/09/21	5		1,600	22,000	3,900
S-7.5-D3	D3	08/09/21	7.5		68	560	2,200
S-10-D3	D3	08/09/21	10		86	390	110
S-12.5-D3	D3	08/09/21	12.5		0.38	<6.4	<6.4
S-2.5-D5	D5	08/09/21	2.5		370	1,600	580
S-5-D5	D5	08/09/21	5	Yes	470	18,000	4,600
S-5-D5 DUP	D5	08/09/21	5	Yes	300	4,000	1,400
S-7.5-D5	D5	08/09/21	7.5		81	3,600	930
S-10-D5	D5	08/09/21	10	Yes	800	11,000	2,400
S-12.5-D5	D5	08/09/21	12.5		2.1	<6.6	<6.6
S-2.5-D7	D7	08/09/21	2.5		63	4,300	1,900
S-5-D7	D7	08/09/21	5		810	29,000	6,900
S-7.5-D7	D7	08/09/21	7.5		350	9,200	3,500
S-10-D7	D7	08/09/21	10	Yes	650	40,000	7,000
Site-Specific Resid	ual Saturation				2,470	4,800	5,810

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			Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
							· · · · ·
Stantec - Site Cha	racterization/	Focused Fea	sibility Study Add	dendum - Ma	ay 25, 2023 (con	<u>tinued):</u>	
S-12.5-D7	D7	08/09/21	12.5		13	420	160
S-2.5-D9	D9	08/09/21	2.5		0.32	290	120
S-5-D9	D9	08/09/21	5		1.3	180	620
S-7.5-D9	D9	08/09/21	7.5		1,200	19,000	5,900
S-10-D9	D9	08/09/21	10	Yes	550	2,700	1,300
S-12.5-D9	D9	08/09/21	12.5		36	290	190
S-2.5-E1	E1	10/15/21	2.5		<0.27	<33	48
S-5-E1	E1	10/15/21	5		<0.26	<6.4	<6.4
S-7.5-E1	E1	10/15/21	7.5		<0.34	<7.1	<7.1
S-10-E1	E1	10/15/21	10		<1.4	<12	<12
S-2.5-E2	E2	08/09/21	2.5		64	430	240
S-5-E2	E2	08/09/21	5		280	1,000	200
S-7.5-E2	E2	08/09/21	7.5		280	1,500	95
S-10-E2	E2	08/09/21	10		160	250	22
S-12.5-E2	E2	08/09/21	12.5		0.36	<7.4	<7.4
S-2.5-E3	E3	10/12/21	2.5		0.37	110	220
S-5-E3	E3	10/12/21	5		18	2,900	2,100
S-7.5-E3	E3	10/12/21	7.5		<0.21	<5.6	9.0
S-2.5-E4	E4	08/09/21	2.5		270	4,100	1,300
S-5-E4	E4	08/09/21	5		25	1,500	320
S-7.5-E4	E4	08/09/21	7.5		22	13	<6.9
S-10-E4	E4	08/09/21	10		38	320	96
S-10-E4 DUP	E4	08/09/21	10		140	42	34
S-12.5-E4	E4	08/09/21	12.5		0.48	<6.3	<6.3
S-5-E5	E5	10/12/21	5		650	89,000	9,200
S-7.5-E5	E5	10/12/21	7.5	Yes	770	36,000	3,100
S-10-E5	E5	10/12/21	10	Yes	740	22,000	1,700
S-12.5-E5	E5	10/12/21	12.5	Yes	140	27,000	2,500
S-15-E5	E5	10/12/21	15		0.27	<6.5	<6.5
S-2.5-E6	E6	08/09/21	2.5		<43	15,000	2,200
S-5-E6	E6	08/09/21	5		710	96,000	8,700
S-7.5-E6	E6	08/09/21	7.5		620	3,900	380
S-10-E6	E6	08/09/21	10	Yes	570	13,000	1,300
S-12.5-E6	E6	08/09/21	12.5		250	5,100	550
S-15-E6A	E6A	10/12/21	15		<0.22	<6.0	<6.0
S-2.5-E8	E8	08/09/21	2.5		0.38	390	130
S-5-E8	E8	08/09/21	5		210	940	890
S-7.5-E8	E8	08/09/21	7.5	Yes	170	14,000	3,200
S-10-E8	E8	08/09/21	10	Yes	1,300	28,000	7,900
S-12.5-E8	E8	08/09/21	12.5	Yes	280	6,000	1,900
S-15-E8A	E8A	10/12/21	15		1.4	<6.1	<6.1
S-17.5-E8A	E8A	10/12/21	17.5	Yes	23	72	25
		Remediation		103	2,470	4,800	5,810

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		_	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
			, ,				, , ,
Stantec - Site Cha	racterization/	Focused Fea	sibility Study Ad	dendum - Ma	ay 25, 2023 (con	<u>tinued):</u>	
S-20-E8A	E8A	10/12/21	20		<2.3	<56	83
S-20-E8A DUP	E8A	10/12/21	20		<1.9	<530	570
S-2.5-F1	F1	10/13/21	2.5		<0.28	<30	120
S-5-F1	F1	10/13/21	5		0.19	71	130
S-7.5-F1	F1	10/13/21	7.5		51	20	<6.7
S-2.5-F2	F2	10/13/21	2.5		170	1,900	280
S-5-F2	F2	10/13/21	5		180	7,200	2,600
S-2.5-F3	F3	08/10/21	2.5		300	6,500	2,500
S-5-F3	F3	08/10/21	5		360	1,400	560
S-10-F3	F3	08/10/21	10		<0.21	<6.2	19
S-12.5-F3	F3	08/10/21	12.5		<0.28	<6.8	7.8
S-2.5-F4	F4	10/13/21	2.5		180	570	200
S-5-F4	F4	10/13/21	5		560	11,000	800
S-7.5-F4	F4	10/13/21	7.5		0.25	<6.0	<6.0
S-10-F4	F4	10/13/21	10		<0.25	<6.0	<6.0
S-12.5-F4	F4	10/13/21	12.5		<1.7	<40	55
S-2.5-F5	F5	08/10/21	2.5		310	500	270
S-5-F5	F5	08/10/21	5	Yes	1,300	76,000	6,200
S-7.5-F5	F5	08/10/21	7.5		1,400	20,000	2,000
S-10-F5	F5	08/10/21	10		870	21,000	2,100
S-12.5-F5	F5	08/10/21	12.5		1.8	<16	46
S-5-F6	F6	10/13/21	5		150	9,600	2,400
S-7.5-F6	F6	10/13/21	7.5		520	22,000	3,100
S-10-F6	F6	10/13/21	10	Yes	560	62,000	6,200
S-12.5-F6	F6	10/13/21	12.5	Yes	92	3,200	760
S-15-F6	F6	10/13/21	15		<0.73	<24	53
S-2.5-F7	F7	08/10/21	2.5		66	160	110
S-5-F7	F7	08/10/21	5		540	32,000	5,800
S-7.5-F7	F7	08/10/21	7.5		340	65,000	15,000
S-10-F7	F7	08/10/21	10		330	1,400	320
S-12.5-F7	F7	08/10/21	12.5		12	480	170
S-2.5-F9	F9	08/10/21	2.5		28	140	7.9
S-2.5-F9 DUP ^c	F9	08/10/21	2.5		27	120	<5.6
S-5-F9	F9	08/10/21	5		510	12,000	7,000
S-7.5-F9	F9	08/10/21	7.5		200	630	190
S-10-F9	F9	08/10/21	10		260	16,000	5,400
S-10-F9 DUP	F9	08/10/21	10		470	13,000	5,300
S-12.5-F9	F9	08/10/21	12.5		4.4	270	210
S-2.5-G1	G1	10/13/21	2.5		<0.22	100	330
S-5-G1	G1	10/13/21	5		<0.19	6.8	13
S-7.5-G1	G1	10/13/21	7.5	Yes	610	7,800	3,700
S-10-G1	G1	10/13/21	10		<0.28	<11	<11
Site-Specific Resid	ual Saturation	Remediation	Levels		2,470	4,800	5,810

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				0 01 14			
Sample Name	Location	Date	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
			(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
Stantec - Site Cha				<u>dendum - Ma</u>			
S-2.5-G2	G2	08/10/21	2.5		240	2,200	1,100
S-5-G2	G2	08/10/21	5		50	190	150
S-10-G2	G2	08/10/21	10		3.6	240	120
S-12.5-G2	G2	08/10/21	12.5		<1.0	<16	33
S-2.5-G3	G3	10/13/21	2.5		170	5,600	1,600
S-5-G3	G3	10/13/21	5		7.5	2,400	680
S-7.5-G3	G3	10/13/21	7.5		<0.28	<5.4	<5.4
S-2.5-G4	G4	08/10/21	2.5		110	2,800	1,400
S-5-G4	G4	08/10/21	5		250	250	130
S-7.5-G4	G4	08/10/21	7.5		12	12	77
S-10-G4	G4	08/10/21	10		96	68	150
S-12.5-G4	G4	08/10/21	12.5		<1.3	<20	100
S-5-G5	G5	10/13/21	5		190	4,400	1,100
S-7.5-G5	G5	10/13/21	7.5	Yes	110	1,600	810
S-10-G5	G5	10/13/21	10		280	210	150
S-12.5-G5	G5	10/13/21	12.5		3.3	760	480
S-2.5-G6	G6	08/10/21	2.5	 	280	1,700	530
S-5-G6	G6	08/10/21	5		260	1,100	350
	G6				170		610
S-7.5-G6		08/10/21 08/10/21	7.5	 Voo		1,800 670	
S-10-G6	G6		10	Yes	240		150
S-12.5-G6	G6	08/10/21	12.5		170	590	120
S-2.5-G7	G7	10/13/21	2.5		6.9	6,800	2,500
S-5-G7	G7	10/13/21	5		95	6,500	2,000
S-7.5-G7	G7	10/13/21	7.5		240	8,200	1,800
S-10-G7	G7	10/13/21	10	Yes	190	4,300	1,500
S-12.5-G7	G7	10/13/21	12.5		9.5	85	<41
S-15-G7	G7	10/13/21	15		<1.0a	56	120
S-2.5-G8	G8	08/10/21	2.5		120	380	27
S-5-G8	G8	08/10/21	5		230	350	30
S-7.5-G8	G8	08/10/21	7.5	Yes	1,400	5,000	960
S-10-G8	G8	08/10/21	10	Yes	1,400	2,700	550
S-12.5-G8	G8	08/10/21	12.5		2,400	12,000	2,900
S-15-G8A	G8A	10/12/21	15	Yes	2,200	12,000	3,000
S-17.5-G8A	G8A	10/12/21	17.5	Yes	2,900	29,000	7,100
S-20-G8A	G8A	10/12/21	20		<1.6	<110	730
S-2.5-H1	H1	10/13/21	2.5		<0.28	<25	160
S-5-H1	H1	10/13/21	5		<0.24	900	1,300
S-7.5-H1	H1	10/13/21	7.5	Yes	140	4,000	360
S-10-H1	H1	10/13/21	10		<0.77	<20	35
S-2.5-H2	H2	10/13/21	2.5		76	2,200	780
S-5-H2	H2	10/13/21	5		270	1,700	680
S-7.5-H2	H2	10/13/21	7.5		870	6,200	920
Site-Specific Resid					2,470	4,800	5,810
one opeome resid	aai Cataration	. tomodiation			۵,٦١٥	7,000	5,510

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				LNIADI	TDII	TDU	TDU
Sample Name	Location	Date	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
			(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
Stantec - Site Cha	racterization	/Focused Fea	sibility Study Ad	dendum - Ma	y 25, 2023 (cont	inued):	
S-10-H2	H2	10/13/21	10		<0.57		170
S-2.5-H3	НЗ	08/11/21	2.5		230	2,300	1,000
S-6-H3	НЗ	08/11/21	6		230	93	26
S-7.5-H3	Н3	08/11/21	7.5		1.1	13	11
S-10-H3	Н3	08/11/21	10		76	370	100
S-12.5-H3	Н3	08/11/21	12.5		<0.58	46	53
S-5-H4	H4	10/13/21	5		110	2,100	320
S-7.5-H4	H4	10/13/21	7.5		0.64	6.3	<5.6
S-2.5-H5	H5	08/10/21	2.5		480	1,400	780
S-5-H5	H5	08/10/21	5		650	4,900	1,300
S-5-H5 DUP	H5	08/10/21	5		530	1,400	350
S-7.5-H5	H5	08/10/21	7.5		320	380	120
S-10-H5	H5	08/10/21	10		140	1,300	410
S-12.5-H5	H5	08/10/21	12.5		9.2	<7.6	36
S-14.5-H5	H5	08/10/21	14.5		63	200	62
S-2.5-H6	H6	10/13/21	2.5		7.4	1,800	650
S-5-H6	H6	10/13/21	5		7.7	3,900	3,400
S-7.5-H6	H6	10/13/21	7.5		430	8,300	2,200
S-10-H6	H6	10/13/21	10		810	5,400	1,500
S-12.5-H6	H6	10/13/21	12.5		11	110	74
S-2.5-H7	H7	08/10/21	2.5		170	6,500	3,100
S-5-H7	H7	08/10/21	5		370	15,000	3,900
S-7.5-H7	H7	08/10/21	7.5		290	1,200	500
S-7.5-H7 DUP	H7	08/10/21	7.5		330	140	82
S-10-H7	H7	08/10/21	10		130	770	360
S-12.5-H7	H7	08/10/21	12.5	<u></u>	38	230	110
S-2.5-H9	H9	08/11/21	2.5	<u></u>	4.2	1,000	70
S-4.5-H9	H9	08/11/21	4.5		1,600	36,000	4,300
S-10-H9	H9	08/11/21	10		2,400	28,000	4,700
S-12.5-H9		08/11/21					
S-14.5-H9	H9 H9	08/11/21	12.5 14.5		53 <1.8	2,000 200	1,200 160
	пэ I1	10/13/21	2.5		<0.20	<5.5	20
S-2.5-I1 S-5-I1	11 11		2.5 5		<0.20 95	5,700	
S-7.5-I1	11 11	10/13/21			95 13	·	440 <22
		10/13/21	7.5			360	
S-10-l1	I1	10/13/21	10		< 0.74	<14	36
S-2.5-I2	12	08/11/21	2.5		170	6,800	2,600
S-5-I2	12	08/11/21	5		310	7,600	1,800
S-7.5-I2	12	08/11/21	7.5		4.3	220	170
S-10-l2	12	08/11/21	10		53	1,300	560
S-12.5-I2	12	08/11/21	12.5		13	150	83
S-2.5-I3	13	10/13/21	2.5		3.1	660	670
S-5-I3	13	10/13/21	5		220	5,000	2,000
Site-Specific Resid	ual Saturation	Remediation	Levels		2,470	4,800	5,810

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			Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
			((***9***9)	(***9***9)	(***9***97
Stantec - Site Cha	racterization	Focused Fea	sibility Study Ad	dendum - Ma	y 25, 2023 (con	tinued):	
S-7.5-I3	13	10/13/21	7.5		0.30	110	63
S-10-I3	13	10/13/21	10		<0.20	<5.8	<5.8
S-2.5-I4	14	08/11/21	2.5		4.9	1,300	450
S-5-I4	14	08/11/21	5		<0.22	14	<5.9
S-7.5-I4	14	08/11/21	7.5		<0.19	<5.6	6.9
S-10-I4	14	08/11/21	10		<0.091	36	12
S-12.5-I4	14	08/11/21	12.5		<1.2	130	140
S-2.5-I5	15	10/13/21	2.5		330	7,400	1,600
S-5-I5	15	10/13/21	5		98	1,900	370
S-7.5-I5	15	10/13/21	7.5		980	4,500	970
S-10-I5	15	10/13/21	10		870	7,800	<120
S-12.5-I5	15	10/13/21	12.5		3.1	23	45
S-12.5-I5-DUP	15	10/13/21	12.5		1.3	34	55
S-2.5-I6	16	08/10/21	2.5		140	780	450
S-5-I6	16	08/10/21	5		380	3,500	800
S-7.5-I6	16	08/10/21	7.5		470	1,100	450
S-10-l6	16	08/10/21	10		300	1,000	320
S-12.5-I6	16	08/10/21	12.5		69	<6.5	14
S-14.5-I6	16	08/10/21	14.5		4.5	<24	50
S-3.5-I7	17	10/13/21	3.5		380	4,400	1,400
S-5-I7	17	10/13/21	5		5.0	53	23
S-10-I7	17	10/13/21	10		280	730	160
S-12.5-I7	17	10/13/21	12.5	Yes	99	130	68
S-15-I7	17	10/13/21	15		<1.3	<38	100
S-2.5-I8	18	08/10/21	2.5		710	6,900	1,700
S-5-I8	18	08/10/21	5		2,100	8,300	1,500
S-7.5-I8	18	08/10/21	7.5		57	1,100	280
S-10-I8	18	08/10/21	10	Yes	1,400	4,300	1,800
S-12.5-I8	18	08/10/21	12.5		1,000	10,000	5,600
S-15-I8A	I8A	10/13/21	15		<1.9	<34	<34
S-2.5-J1	J1	10/13/21	2.5		< 0.30	2,100	5,700
S-5-J1	J1	10/13/21	5		580	6,200	490
S-7.5-J1	J1	10/13/21	7.5		8.0	15	<6.3
S-2.5-J3	J3	08/11/21	2.5		4.0	7,600	3,800
S-5-J3	J3	08/11/21	5		130	3,600	810
S-7.5-J3	J3	08/11/21	7.5		210	7,900	750
S-10-J3	J3	08/11/21	10		160	380	140
S-12.5-J3	J3	08/11/21	12.5		<0.84	93	73
S-2.5-J5	J5	08/10/21	2.5		390	7,800	2,800
S-5-J5	J5	08/10/21	5		2,100	55,000	8,200
S-5-J5 DUP	J5	08/10/21	5		1,600	59,000	8,200
S-7.5-J5	J5	08/10/21	7.5		1,200	7,800	1,400
Site-Specific Resid					2,470	4,800	5,810

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			Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
			((99)	(99)	(***9***97
Stantec - Site Cha	aracterization/	/Focused Fea	sibility Study Add	dendum - Ma	y 25, 2023 (con	tinued):	
S-10-J5	J5	08/10/21	10		97	13	12
S-12.5-J5	J5	08/10/21	12.5		63	120	51
S-2.5-J7	J7	08/10/21	2.5		60	6,700	5,900
S-5-J7	J7	08/10/21	5		480	470	170
S-7.5-J7	J7	08/10/21	7.5		700	830	160
S-10-J7	J7	08/10/21	10	Yes	2,200	10,000	1,400
S-12.5-J7	J7	08/10/21	12.5		910	730	180
S-2.5-J9	J9	08/11/21	2.5		480	760	210
S-5-J9	J9	08/11/21	5	Yes	3,100	4,000	410
S-7.5-J9	J9	08/11/21	7.5	Yes	3,300	11,000	730
S-10-J9	J9	08/11/21	10	Yes	590	13,000	2,700
S-12.5-J9	J9	08/11/21	12.5		1,700	18,000	4,400
S-14.5-J9	J9	08/11/21	14.5		1.5	140	450
S-2.5-K1	K1	10/13/21	2.5		970	15,000	3,600
S-5-K1	K1	10/13/21	5		620	6,200	110
S-7.5-K1	K1	10/13/21	7.5		1.2	<8.2	<8.2
S-2.5-K2	K2	08/17/21	2.5		460	5,100	400
S-5-K2	K2	08/17/21	5		1,100	14,000	490
S-7.5-K2	K2	08/17/21	7.5		1.3	19	15
S-10-K2	K2	08/17/21	10		4.2	34	17
S-12.5-K2	K2	08/17/21	12.5		580	<8.5	12
S-2.5-K4	K4	08/18/21	2.5		570	5,800	140
S-5-K4	K4	08/18/21	5		0.99	<5.9	9.1
S-10-K4	K4	08/18/21	10		0.67	9.5	14
S-15-K4	K4	08/18/21	15		22	65	56
S-2.5-K6	K6	08/18/21	2.5		1,200	3,100	320
S-5-K6	K6	08/18/21	5		560	14,000	920
S-7.5-K6	K6	08/18/21	7.5		320	1,100	47
S-10-K6	K6	08/18/21	10		120	38	33
S-12.5-K6	K6	08/18/21	12.5		<0.24	<6.0	6.2
S-2.5-K8	K8	08/18/21	2.5		4.5	2,800	530
S-5-K8	K8	08/18/21	5		3,200	19,000	2,300
S-7.5-K8	K8	08/18/21	7.5	Yes	3,400	59,000	4,500
S-10-K8	K8	08/18/21	10		1,500	4,900	270
S-12.5-K8	K8	08/18/21	12.5		10	44	240
S-2.5-L1	L1	08/17/21	2.5		0.42	16	86
S-5-L1	L1	08/17/21	5		210	660	380
S-7.5-L1	L1	08/17/21	7.5		1.3	35	59
S-10-L1	L1	08/17/21	10		4.9	84	51
S-12.5-L1	L1	08/17/21	12.5		0.50	12	8.5
S-2.5-L2	L2	10/13/21	2.5		98	5,400	1,400
S-5-L2	L2	10/13/21	5		920	8,200	8,200
Site-Specific Resid	lual Saturation	Remediation	Levels		2,470	4,800	5,810

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				LAIADI	TDU	TDU	TDU
Sample Name	Location	Date	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
			(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
Stantec - Site Cha	racterization	/Focused Fea	sibility Study Ad	dendum - Ma	y 25, 2023 (con	tinued):	
S-7.5-L2	L2	10/13/21	7.5		<0.21	<6.2	12
S-2.5-L3	L3	08/17/21	2.5		1.4	8,600	2,500
S-5-L3	L3	08/17/21	5		< 0.45	7,000	2,600
S-7.5-L3	L3	08/17/21	7.5		0.34	170	360
S-10-L3	L3	08/17/21	10		210	12	110
S-12.5-L3	L3	08/17/21	12.5		<0.58	<13	140
S-2.5-L5	L5	08/18/21	2.5		1,300	8,700	500
S-5-L5	L5	08/18/21	5		840	4,600	280
S-7.5-L5	L5	08/18/21	7.5		0.90	160	160
S-10-L5	L5	08/18/21	10		89	1,700	600
S-12.5-L5	L5	08/18/21	12.5		<1.3	<20	23
S-2.5-L7	L7	08/18/21	2.5		410	4,700	2,000
S-5-L7	L7	08/18/21	5		820	45,000	310
S-7.5-L7	L7	08/18/21	7.5		290	11,000	5,100
S-10-L7	L7	08/18/21	10		410	1,400	800
S-12.5-L7	L7	08/18/21	12.5		<2.0	<28	73
S-2.5-L8	L8	10/14/21	2.5		1.0	340b	200
S-5-L8	L8	10/14/21	5		3,900	22,000b	1,300
S-7.5-L8	L8	10/14/21	7.5		1,900	21,000b	890
S-10-L8	L8	10/14/21	10	Yes	320	13,000b	920
S-12.5-L8	L8	10/14/21	12.5		12	<49b	72
S-2-L9	L9	08/18/21	2		96	2,000	2,100
S-5-L9	L9	08/18/21	5		6.7	370	280
S-10-L9	L9	08/18/21	10		1,400	310	32
S-12.5-L9	L9	08/18/21	12.5		<2.0	<29	33
S-2.5-M1	M1	10/13/21	2.5		4.0	460	320
S-5-M1	M1	10/13/21	5		2,000	4,200	910
S-7.5-M1	M1	10/13/21	7.5		25	<6.7	<6.7
S-2.5-M2	M2	08/17/21	2.5		0.96	160	23
S-5-M2	M2	08/17/21	5		190	1,600	650
S-7.5-M2	M2	08/17/21	7.5		5.1	270	450
S-10-M2	M2	08/17/21	10		89	970	420
S-12.5-M2	M2	08/17/21	12.5		0.48	17	18
S-2.5-M3	М3	10/14/21	2.5		2,700	16,000	830
S-5-M3	M3	10/14/21	5		390	2,600	330
S-7.5-M3	M3	10/14/21	7.5		16	240	280
S-10-M3	M3	10/14/21	10		20	930	1,100
S-2.5-M4	M4	08/17/21	2.5		<0.29	13,000	2,200
S-5-M4	M4	08/17/21	5		1,100	7,900	1,400
S-7.5-M4	M4	08/17/21	7.5		<0.55	5,500	7,300
S-10-M4	M4	08/17/21	10		620	<6.9	13
S-12.5-M4	M4	08/17/21	12.5		1.0	<15	58
Site-Specific Resid	ual Saturation	Remediation	Levels		2,470	4,800	5,810

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Cample Name	Location	Data	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
tantec - Site Cha S-2.5-M6	racterization/ M6	<u>Focused Fea</u> 08/18/21	sibility Study Add		y 25, 2023 (cont 1,500	inued): 10,000	1,100
S-2.5-M6	M6	08/18/21	2.5 5		1,200	4,400	620
S-7.5-M6	M6	08/18/21			67	4,400 60	240
			7.5 10				
S-10-M6	M6	08/18/21			8.5	690	930
S-12.5-M6	M6	08/18/21	12.5		<1.2	120	280
S-2.5-M8	M8	08/18/21	2.5		3,400	27,000	1,300
S-5-M8	M8	08/18/21	5		1,200	250	14
S-7.5-M8	M8	08/18/21	7.5		490	1,300	340
S-10-M8	M8	08/18/21	10		740	100	11
S-12.5-M8	M8	08/18/21	12.5		6.0	<31	37
S-2.5-M9	М9	10/14/21	2.5		0.77	300b	460
S-5-M9	M9	10/14/21	5		4,600	5,700b	180
S-7.5-M9	M9	10/14/21	7.5		3,500	21,000b	1,100
S-10-M9	M9	10/14/21	10		2,900	35,000b	1,400
S-12.5-M9	M9	10/14/21	12.5		530	11,000b	1,700
S-15-M9	M9	10/14/21	15		46	26b	<17
S-17.5-M9	M9	10/14/21	17.5		0.97	<5.8b	<5.8
S-2.5-N1	N1	08/17/21	2.5		0.86	13	<5.7
S-5-N1	N1	08/17/21	5		730	160	140
S-10-N1	N1	08/17/21	10		1.8	14	13
S-12.5-N1	N1	08/17/21	12.5		<0.28	15	11
S-2.5-N3	N3	08/17/21	2.5		1,700H	930	9.5
S-5-N3	N3	08/17/21	5		880H	780	190
S-7.5-N3	N3	08/17/21	7.5		1.8	<6.2	<6.2
S-16-N3	N3	08/17/21	16		<0.28	<11	15
S-2.5-N4	N4	10/14/21	2.5		2,200	7,700	410
S-5-N4	N4	10/14/21	5		1,600	4,400	51
S-7.5-N4	N4	10/14/21	7.5		20	360	190
S-10-N4	N4	10/14/21	10		1.3	460	980
S-2.5-N5	N5	08/17/21	2.5		2,000	110,000	6,300
S-5-N5	N5	08/17/21	5		2,000 1,100H	820	51
S-7.5-N5	N5	08/17/21	7.5		0.87	<6.0	<6.0
S-10-N5	N5	08/17/21	10		9.4	32	<6.0
S-12.5-N5	N5	08/17/21	12.5		<0.98	<29	<29
S-2.5-N7	N7	08/17/21	2.5		36	6,100	2,300
S-5-N7	N7	08/17/21	5		1,200	1,600	37
S-7.5-N7	N7	08/17/21	7.5		9,500	24,000	1,000
S-10-N7	N7	08/17/21	10		1,400	4,400	1,800
S-12.5-N7	N7	08/17/21	12.5		4.4	320	190
S-2.5-O1	O1	10/14/21	2.5		<0.27	<51b	170
S-5-O1	01	10/14/21	5		<0.25	<30b	77
S-7.5-O1	01	10/14/21	7.5		3.7	14b	13
ite-Specific Resid	ual Saturation	Remediation	Levels		2,470	4,800	5,810

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Sample Name Location Date Sample Depth LNAPL TPHg TPHg (mg/kg) (mg/kg) (mg/kg) (mg/kg)					110117	TDU	TDILL	TDU
Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):	Sample Name	Location	Date			-		
\$\text{S-5-O2} \text{O2} \text{O2} \text{O3} \text{V1721} \text{D2} \text{S-5-O2} \text{O2} \text{O3} \text{V1721} \text{D3} \text{S-5-O2} \text{O2} \text{O3} \text{V1721} \text{D3} \text{S-5-O2} \text{O2} \text{O3} \text{V1721} \text{D4} \text{D4} \text{S-5-O2} \text{O2} \text{O3} \text{V1721} \text{D4}				(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
\$\text{S-5-O2} \text{O2} \text{O2} \text{O3} \text{V1721} \text{D2} \text{S-5-O2} \text{O2} \text{O3} \text{V1721} \text{D3} \text{S-5-O2} \text{O2} \text{O3} \text{V1721} \text{D3} \text{S-5-O2} \text{O2} \text{O3} \text{V1721} \text{D4} \text{D4} \text{S-5-O2} \text{O2} \text{O3} \text{V1721} \text{D4}	Stantec - Site Cha	racterization	/Focused Fea	sibility Study Ad	dendum - Ma	ay 25, 2023 (cont	tinued):	
\$-7.5-02	S-2.5-O2	02	08/17/21	2.5		0.25	<u></u> 45	47
\$-10-02	S-5-O2	O2	08/17/21	5		<0.18	<12	67
\$-12.5-02	S-7.5-O2	02	08/17/21	7.5		5.4	240	1,400
\$-2.5-03	S-10-O2	O2	08/17/21	10		1.3	<19	<19
\$-5-03	S-12.5-O2	O2	08/17/21	12.5		<0.25H	<6.3	14
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	S-2.5-O3	О3	10/14/21	2.5		3.6	99	110
\$\text{S-10-04} & 04 & 08/17/21 & 10 & & 66H & 230 & 75 \\ \$\text{S-12.5-04} & 04 & 08/17/21 & 12.5 & & 1.2 & <20 & 62 \\ \$\text{S-2.5-06} & 06 & 08/17/21 & 2.5 & & 170 & 1,000 & 1,700 \\ \$\text{S-5-06} & 06 & 08/17/21 & 5 & & 2,800 & 2,000 & 320 \\ \$\text{S-7.5-06} & 06 & 08/17/21 & 7.5 & & 200 & 220 & <5.7 \\ \$\text{S-7.5-06} & 06 & 08/17/21 & 7.5 & & 55 & 1,100 & 26 \\ \$\text{S-10-06} & 06 & 08/17/21 & 10 & & 2,900 & 600 & 27 \\ \$\text{S-10-06} & 06 & 08/17/21 & 12.5 & & 520 & 3,800b & 1,600 \\ \$\text{S-10-07} & 07 & 10/14/21 & 2.5 & & 520 & 3,800b & 1,600 \\ \$\text{S-5-07} & 07 & 10/14/21 & 2.5 & & 520 & 3,800b & 1,600 \\ \$\text{S-5-07} & 07 & 10/14/21 & 7.5 & & 2,100 & 20,000b & 790 \\ \$\text{S-10-07} & 07 & 10/14/21 & 7.5 & & 2,100 & 20,000b & 790 \\ \$\text{S-10-07} & 07 & 10/14/21 & 10 & & 110 & 200b & 660 \\ \$\text{S-15-07} & 07 & 10/14/21 & 12.5 & & 10 & <53b & 100 \\ \$\text{S-25-08} & 08 & 08/16/21 & 12.5 & & 820 & 45,000 & 1,500 \\ \$\text{S-10-08} & 08 & 08/16/21 & 5 & & 820 & 45,000 & 1,500 \\ \$\text{S-10-08} & 08 & 08/16/21 & 12.5 & & 8.3 & 20 & 150 \\ \$\text{S-25-P1} & P1 & 08/16/21 & 2.5 & & 22 & 290 & 960 \\ \$\text{S-5-P1} & P1 & 08/16/21 & 12.5 & & 140 & 280 & 780 \\ \$\text{S-75-P1} & P1 & 08/16/21 & 12.5 & & 140 & 280 & 780 \\ \$\text{S-75-P1} & P1 & 08/16/21 & 12.5 & & 22 & 290 & 960 \\ \$\text{S-5-P1} & P1 & 08/16/21 & 12.5 & & 22 & 290 & 960 \\ \$\text{S-5-P1} & P1 & 08/16/21 & 10 & & <0.56 & <11 & 14 \\ \$\text{S-10-P1} & P1 & 08/16/21 & 12.5 & & 20.56 & <11 & 14 \\ \$\text{S-10-P1} & P1 & 08/16/21 & 12.5 & & 20.56 & <11 & 14 \\ \$\text{S-10-P1} & P1 & 08/16/21 & 12.5 & & 20.56 & <11 & 14 \\ \$\text{S-10-P1} & P1 & 08/16/21 & 12.5 & & 2.9 & 120b & 430 \\ \$\text{S-5-P2} & P2 & 10/14/21 & 5.5 & & 20.56 & <11 & 14 \\ \$\text{S-10-P3} & P3 & 08/16/21 & 15.5 & & 2.9 & 120b & 430 \\ \$\text{S-25-P3} & P3 & 08/16/21 & 15.5 & & 810 & 830b & 58 \\ \$\text{S-5-P4} & P4 & 10/14/21 & 5.5 & & 800 & 6,100 & 2,400 \\ \$\tex	S-5-O3	О3	10/14/21	5		1,500	3,200	130
\$-12.5-04	S-7.5-O3	О3	10/14/21	7.5		1.1	6.1	13
\$-2.5-06	S-10-O4	04	08/17/21	10		66H	230	75
\$-5-06	S-12.5-O4	04	08/17/21	12.5		1.2	<20	62
\$\frac{\capact{S-7.5-06}}{\capact{S-7.5-06}} \text{O6} \text{O8/17/21} \text{7.5}	S-2.5-O6	O6	08/17/21	2.5		170	1,000	1,700
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	S-5-O6	O6	08/17/21	5		2,800	2,000	320
\$-10-06	S-7.5-O6	O6	08/17/21	7.5		200	220	<5.7
\$-12.5-06	S-7.5-O6 DUP	O6	08/17/21	7.5		55	1,100	26
S-2.5-O7 O7 10/14/21 2.5 520 3,800b 1,600 S-5-O7 O7 10/14/21 5 240 870b 3,300 S-7.5-O7 O7 10/14/21 7.5 2,100 20,000b 790 S-10-O7 O7 10/14/21 10 110 20bb 660 S-12.5-O7 O7 10/14/21 12.5 10 <53b 100 S-2.5-O8 O8 08/16/21 2.5 4,100 15,000 290 S-5-O8 O8 08/16/21 5 820 45,000 1,500 S-10-O8 O8 08/16/21 10 1,500 2,900 180 S-12-S-P1 P1 08/16/21 12.5 82 45,000 1,500 S-2.5-P1 P1 08/16/21 2.5 22 290 960 S-5-P1 P1 08/16	S-10-O6	O6	08/17/21	10		2,900	600	27
S-5-O7 O7 10/14/21 5 240 870b 3,300 S-7.5-O7 O7 10/14/21 7.5 2,100 20,000b 790 S-10-O7 O7 10/14/21 10 110 200b 660 S-12.5-O7 O7 10/14/21 12.5 10 <53b 100 S-2.5-O8 O8 08/16/21 2.5 4,100 15,000 290 S-5-O8 O8 08/16/21 5 820 45,000 1,500 S-10-O8 O8 08/16/21 10 1,500 2,900 180 S-12.5-O8 O8 08/16/21 12.5 8.3 20 150 S-2.5-P1 P1 08/16/21 2.5 22 290 960 S-5-P1 P1 08/16/21 5 140 280 780 S-7.5-P1 P1 08/16/21	S-12.5-O6	O6	08/17/21	12.5		210	260	210
S-7.5-O7 O7 10/14/21 7.5 2,100 20,000b 790 S-10-O7 O7 10/14/21 10 110 200b 660 S-12.5-O7 O7 10/14/21 12.5 10 <53b	S-2.5-O7	07	10/14/21	2.5		520	3,800b	1,600
S-10-O7 O7 10/14/21 10 110 200b 660 S-12.5-O7 O7 10/14/21 12.5 10 <53b	S-5-07	07	10/14/21	5		240	870b	3,300
S-12.5-O7 O7 10/14/21 12.5 - 10 <53b 100 S-2.5-O8 O8 08/16/21 2.5 - 4,100 15,000 290 S-5-O8 O8 08/16/21 5 - 820 45,000 1,500 S-10-O8 O8 08/16/21 10 - 1,500 2,900 180 S-12.5-O8 O8 08/16/21 12.5 - 8.3 20 150 S-12.5-P1 P1 08/16/21 2.5 - 22 290 960 S-5-P1 P1 08/16/21 5 - 140 280 780 S-7.5-P1 P1 08/16/21 7.5 - <0.56	S-7.5-O7	07	10/14/21	7.5		2,100	20,000b	790
S-2.5-08 O8 08/16/21 2.5 4,100 15,000 290 S-5-08 O8 08/16/21 5 820 45,000 1,500 S-10-08 O8 08/16/21 10 1,500 2,900 180 S-12.5-O8 O8 08/16/21 12.5 8.3 20 150 S-2.5-P1 P1 08/16/21 2.5 22 290 960 S-5-P1 P1 08/16/21 5 140 280 780 S-7.5-P1 P1 08/16/21 7.5 <0.56	S-10-O7	07	10/14/21	10		110	200b	660
S-5-08 O8 08/16/21 5 820 45,000 1,500 S-10-08 O8 08/16/21 10 1,500 2,900 180 S-12-5-08 O8 08/16/21 12.5 8.3 20 150 S-2-5-P1 P1 08/16/21 2.5 22 290 960 S-5-P1 P1 08/16/21 5 140 280 780 S-7.5-P1 P1 08/16/21 7.5 <0.56	S-12.5-O7	07	10/14/21	12.5		10	<53b	100
S-10-O8 O8 O8/16/21 10 1,500 2,900 180 S-12.5-O8 O8 O8/16/21 12.5 8.3 20 150 S-2.5-P1 P1 O8/16/21 2.5 22 290 960 S-5-P1 P1 O8/16/21 5 140 280 780 S-7.5-P1 P1 O8/16/21 7.5 <0.56 <11 14 S-10-P1 P1 O8/16/21 10 <0.76 460 840 S-12.5-P1 P1 O8/16/21 12.5 <0.71 <12 12 S-2.5-P2 P2 10/14/21 2.5 <0.71 <12 12 S-2.5-P2 P2 10/14/21 2.5 0.23 310b 630 S-7.5-P2 P2 10/14/21 7.5 2.9 120b 430 S-2.5-P3 P3 08/16/21	S-2.5-O8	08	08/16/21	2.5		4,100	15,000	290
S-12.5-08 O8 08/16/21 12.5 8.3 20 150 S-2.5-P1 P1 08/16/21 2.5 22 290 960 S-5-P1 P1 08/16/21 5 140 280 780 S-7.5-P1 P1 08/16/21 7.5 <0.56 <11 14 S-10-P1 P1 08/16/21 10 <0.76 460 840 S-12.5-P1 P1 08/16/21 12.5 <0.71 <12 12 S-2.5-P2 P2 10/14/21 2.5 <0.23 310b 630 S-5-P2 P2 10/14/21 5 1,500 4,900b 1,600 S-7.5-P2 P2 10/14/21 7.5 2.9 120b 430 S-2.5-P3 P3 08/16/21 2.5 800 6,100 2,400 S-16-P3 P3 08/16/21	S-5-O8	08	08/16/21	5		820	45,000	1,500
S-2.5-P1 P1 08/16/21 2.5 22 290 960 S-5-P1 P1 08/16/21 5 140 280 780 S-7.5-P1 P1 08/16/21 7.5 <0.56	S-10-O8	08	08/16/21	10		1,500	2,900	180
S-5-P1 P1 08/16/21 5 140 280 780 S-7.5-P1 P1 08/16/21 7.5 <0.56	S-12.5-O8	08	08/16/21	12.5		8.3	20	150
S-7.5-P1 P1 08/16/21 7.5 <0.56	S-2.5-P1	P1	08/16/21	2.5		22	290	960
S-10-P1 P1 08/16/21 10 <0.76	S-5-P1	P1	08/16/21	5		140	280	780
S-12.5-P1 P1 08/16/21 12.5 <0.71	S-7.5-P1	P1	08/16/21	7.5		< 0.56	<11	14
S-2.5-P2 P2 10/14/21 2.5 0.23 310b 630 S-5-P2 P2 10/14/21 5 1,500 4,900b 1,600 S-7.5-P2 P2 10/14/21 7.5 2.9 120b 430 S-2.5-P3 P3 08/16/21 2.5 800 6,100 2,400 S-16-P3 P3 08/16/21 16 5.3 <17	S-10-P1	P1	08/16/21	10		< 0.76	460	840
S-5-P2 P2 10/14/21 5 1,500 4,900b 1,600 S-7.5-P2 P2 10/14/21 7.5 2.9 120b 430 S-2.5-P3 P3 08/16/21 2.5 800 6,100 2,400 S-16-P3 P3 08/16/21 16 5.3 <17	S-12.5-P1	P1	08/16/21	12.5		<0.71	<12	12
S-7.5-P2 P2 10/14/21 7.5 2.9 120b 430 S-2.5-P3 P3 08/16/21 2.5 800 6,100 2,400 S-16-P3 P3 08/16/21 16 5.3 <17	S-2.5-P2	P2	10/14/21	2.5		0.23	310b	630
S-2.5-P3 P3 08/16/21 2.5 800 6,100 2,400 S-16-P3 P3 08/16/21 16 5.3 <17	S-5-P2	P2	10/14/21	5		1,500	4,900b	1,600
S-16-P3 P3 08/16/21 16 5.3 <17	S-7.5-P2	P2	10/14/21	7.5		2.9	120b	430
S-2.5-P4 P4 10/14/21 2.5 250 320b 580 S-5-P4 P4 10/14/21 5 810 830b 58 S-7.5-P4 P4 10/14/21 7.5 45 43b 240 S-2.5-P5 P5 08/16/21 2.5 63 200 360 S-5-P5 P5 08/16/21 5 2,500 3,700 250 S-7.5-P5 P5 08/16/21 7.5 230 29 240 S-10-P5 P5 08/16/21 10 790 190 260	S-2.5-P3	P3	08/16/21	2.5		800	6,100	2,400
S-5-P4 P4 10/14/21 5 810 830b 58 S-7.5-P4 P4 10/14/21 7.5 45 43b 240 S-2.5-P5 P5 08/16/21 2.5 63 200 360 S-5-P5 P5 08/16/21 5 2,500 3,700 250 S-7.5-P5 P5 08/16/21 7.5 230 29 240 S-10-P5 P5 08/16/21 10 790 190 260	S-16-P3	P3	08/16/21	16		5.3	<17	29
S-7.5-P4 P4 10/14/21 7.5 45 43b 240 S-2.5-P5 P5 08/16/21 2.5 63 200 360 S-5-P5 P5 08/16/21 5 2,500 3,700 250 S-7.5-P5 P5 08/16/21 7.5 230 29 240 S-10-P5 P5 08/16/21 10 790 190 260	S-2.5-P4	P4	10/14/21	2.5		250	320b	580
S-2.5-P5 P5 08/16/21 2.5 63 200 360 S-5-P5 P5 08/16/21 5 2,500 3,700 250 S-7.5-P5 P5 08/16/21 7.5 230 29 240 S-10-P5 P5 08/16/21 10 790 190 260	S-5-P4	P4	10/14/21	5		810	830b	58
S-5-P5 P5 08/16/21 5 2,500 3,700 250 S-7.5-P5 P5 08/16/21 7.5 230 29 240 S-10-P5 P5 08/16/21 10 790 190 260	S-7.5-P4	P4	10/14/21	7.5		45	43b	240
S-7.5-P5 P5 08/16/21 7.5 230 29 240 S-10-P5 P5 08/16/21 10 790 190 260	S-2.5-P5	P5	08/16/21	2.5		63	200	360
S-10-P5 P5 08/16/21 10 790 190 260	S-5-P5	P5	08/16/21			2,500	3,700	250
	S-7.5-P5	P5	08/16/21	7.5			29	240
Site-Specific Residual Saturation Remediation Levels 2,470 4,800 5,810	S-10-P5	P5	08/16/21	10		790	190	260
	Site-Specific Resid	ual Saturation	Remediation	Levels		2,470	4,800	5,810

ExxonMobil ADC 2717/2731 Federal Avenue Everett, Washington Page 12 of 14

Sample Name					LNIADI	TDU	TDILL	TDU
Stante C- Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued): S-12.5-P5 P5	Sample Name	Location	Date			-		
\$-12.5-P5 P5 08/16/21 12.5 1.0 10 130 \$-5-P6 P6 10/14/21 5 2,200 1,400b 990 \$-10.P6 P6 10/14/21 10 2.0 6.8b 12 \$-12.5-P6 P6 10/14/21 12.5 6.0 <- 59b 100 \$-2.5-P7 P7 08/16/21 2.5 110 2,800 1,500 \$-3.5-P7 P7 08/16/21 5 870 4,300 460 \$-7.5-P7 P7 08/16/21 10 260 830 310 \$-12.5-P7 P7 08/16/21 12.5 3.0 1,700 4,000 \$-2.5-0.1 01 10/14/21 5 2.5 <- 6.1 <- 6.1 \$-7.5-0.1 01 10/14/21 5 2.5 <- 6.1 <- 6.1 \$-7.5-0.1 01 10/14/21 7.5 0,33 <- 5.9 38 \$-2.5-0.2 02 08/16/21 5 53 150 \$-5.5-0.2 02 08/16/21 5 13. <- 5.9 76 \$-7.5-0.2 02 08/16/21 5 13. <- 5.9 76 \$-7.5-0.2 02 08/16/21 10 0,058 <- 6.1 11 \$-10-0.2 02 08/16/21 10 0,058 <- 6.1 11 \$-10-0.2 02 08/16/21 12.5 0,058 <- 6.1 11 \$-10-0.2 02 08/16/21 10 0,058 <- 6.1 11 \$-10-0.2 02 08/16/21 12.5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 2.5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 5 0,021 <- 6.1 7.5 \$-2.5-0.4 04 08/16/21 17.5 110 340 61 \$-2.5-0.4 04 08/16/21 5 7.3 100 210 \$-7.5-0.3 03 10/14/21 5 0,034 22 100 \$-7.5-0.4 04 08/16/21 5 7.3 100 210 \$-7.5-0.4 04 08/16/21 5 7.3 100 210 \$-7.5-0.4 04 08/16/21 5 7.3 100 210 \$-7.5-0.4 04 08/16/21 5 7.3 100 210 \$-7.5-0.4 04 08/16/21 5 7.5 0.044 <- 6.6 6.3 \$-7.5-0.5 0.5 10/15/21 7.5 0.047 28 56 \$-5.5-0.5 0.5 10/15/21 7.5 0.047 28 56 \$-5.5-0.5 0.5 10/15/21 7.5 0.047 28 56 \$-5.5-0.5 0.5 10/15/21 7.5 0.047 28 56 \$-5.5-0.5 0.5 10/15/21 7.5 0.047 28 56 \$-5.5-0.5 0.5 10/15/21 7.5 0.050 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.				(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
\$-12.5-P5 P5 08/16/21 12.5 1.0 10 130 \$-5-P6 P6 10/14/21 5 2,200 1,400b 990 \$-10.P6 P6 10/14/21 10 2.0 6.8b 12 \$-12.5-P6 P6 10/14/21 12.5 6.0 <- 59b 100 \$-2.5-P7 P7 08/16/21 2.5 110 2,800 1,500 \$-3.5-P7 P7 08/16/21 5 870 4,300 460 \$-7.5-P7 P7 08/16/21 10 260 830 310 \$-12.5-P7 P7 08/16/21 12.5 3.0 1,700 4,000 \$-2.5-0.1 01 10/14/21 5 2.5 <- 6.1 <- 6.1 \$-7.5-0.1 01 10/14/21 5 2.5 <- 6.1 <- 6.1 \$-7.5-0.1 01 10/14/21 7.5 0,33 <- 5.9 38 \$-2.5-0.2 02 08/16/21 5 53 150 \$-5.5-0.2 02 08/16/21 5 13. <- 5.9 76 \$-7.5-0.2 02 08/16/21 5 13. <- 5.9 76 \$-7.5-0.2 02 08/16/21 10 0,058 <- 6.1 11 \$-10-0.2 02 08/16/21 10 0,058 <- 6.1 11 \$-10-0.2 02 08/16/21 12.5 0,058 <- 6.1 11 \$-10-0.2 02 08/16/21 10 0,058 <- 6.1 11 \$-10-0.2 02 08/16/21 12.5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 2.5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 5 0,021 <- 6.1 7.5 \$-2.5-0.3 03 10/14/21 5 0,021 <- 6.1 7.5 \$-2.5-0.4 04 08/16/21 17.5 110 340 61 \$-2.5-0.4 04 08/16/21 5 7.3 100 210 \$-7.5-0.3 03 10/14/21 5 0,034 22 100 \$-7.5-0.4 04 08/16/21 5 7.3 100 210 \$-7.5-0.4 04 08/16/21 5 7.3 100 210 \$-7.5-0.4 04 08/16/21 5 7.3 100 210 \$-7.5-0.4 04 08/16/21 5 7.3 100 210 \$-7.5-0.4 04 08/16/21 5 7.5 0.044 <- 6.6 6.3 \$-7.5-0.5 0.5 10/15/21 7.5 0.047 28 56 \$-5.5-0.5 0.5 10/15/21 7.5 0.047 28 56 \$-5.5-0.5 0.5 10/15/21 7.5 0.047 28 56 \$-5.5-0.5 0.5 10/15/21 7.5 0.047 28 56 \$-5.5-0.5 0.5 10/15/21 7.5 0.047 28 56 \$-5.5-0.5 0.5 10/15/21 7.5 0.050 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.	Stantec - Site Cha	racterization	/Focused Fea	sibility Study Ad	dendum - Ma	y 25, 2023 (cont	tinued):	
\$-10.P66 P6 10/14/21 10 - 2.0 <6.8 b 12 \$-12.5-P6 P6 10/14/21 12.5 - 6.0 <59b 100 \$-2.5-P7 P7 08/16/21 2.5 - 110 2.800 1.500 \$-5-P7 P7 08/16/21 5 - 870 4.300 460 \$-3.5-P7 P7 08/16/21 10 - 266 830 310 \$-12.5-P7 P7 08/16/21 10 - 266 830 310 \$-12.5-P7 P7 08/16/21 12.5 - 3.0 1.700 4.000 \$-2.5-01 01 10/14/21 2.5 - 3.0 1.700 4.000 \$-2.5-01 01 10/14/21 5 - 2.5 <6.1 <6.1 \$-3.5-01 01 10/14/21 5 - 2.5 <6.1 <6.1 \$-3.5-02 02 08/16/21 5 - 2.5 <6.1 <6.1 \$-3.5-02 02 08/16/21 5 - 3.3 5 5 9 76 \$-3.5-02 02 08/16/21 5 - 1.3 <5.9 76 \$-3.5-02 02 08/16/21 10 - 0.058 <6.1 11 \$-3.5-02 02 08/16/21 10 - 0.058 <6.1 11 \$-3.5-02 02 08/16/21 10 - 0.020 <6.2 6.8 \$-3.12.5-02 02 08/16/21 12.5 - 0.58 <6.1 11 \$-3.5-02 02 08/16/21 10 - 0.020 <6.2 6.8 \$-3.12.5-02 02 08/16/21 12.5 - 0.058 \$-3.5-03 03 10/14/21 5 - 9.3 46.6 9.8 \$-3.5-03 03 10/14/21 5 - 9.3 46.6 9.8 \$-3.5-03 03 10/14/21 5 - 530 810 190 \$-3.5-04 04 08/16/21 5 - 7.3 100 210 \$-3.5-04 04 08/16/21 5 - 7.3 100 210 \$-3.5-05 05 10/15/21 7.5 - 0.47 28 56 \$-3.5-05 05 10/15/21 7.5 - 0.47 28 56 \$-3.5-05 06 06 08/12/21 7.5 - 0.47 28 56 \$-3.5-05 05 10/15/21 7.5 - 0.44 <5.6 <5.6 \$-3.5-06 06 08/12/21 5 - 590 3.400 140 \$-3.5-06 08 08/12/21 5 - 590 3.400 140 \$-3.5-06 08 08/12/21 5 - 590 3.400 140 \$-3.5-07 0.00 08/12/21 5 - 590 3.400 140 \$-3.5-08 0.00								130
\$-10-P6 P6 10/14/21 10 - 2.0 <6.8b 12 \$-12.5-P6 P6 10/14/21 12.5 - 6.0 <59b 100 \$-2.5-P7 P7 08/16/21 2.5 - 110 2.800 1.500 \$-5-P7 P7 08/16/21 5 - 870 4.300 460 \$-5-P7 P7 08/16/21 10 - 260 830 310 \$-10-P7 P7 08/16/21 10 - 260 830 310 \$-12.5-P7 P7 08/16/21 10 - 260 830 310 \$-12.5-P7 P7 08/16/21 10 - 260 830 310 \$-12.5-P7 P7 08/16/21 12.5 - 3.0 1,700 4,000 \$-2.5-O1 O1 10/14/21 2.5 - 3.0 1,700 4,000 \$-2.5-O1 O1 10/14/21 5 - 2.5 <6.1 <6.1 \$-7.5-O1 O1 10/14/21 5 - 3.3 150 240 \$-2.5-O2 O2 08/16/21 5 - 13.3 <5.9 76 \$-7.5-O2 O2 08/16/21 5 - 13.3 <5.9 76 \$-7.5-O2 O2 08/16/21 5 - 0.58 <6.1 11 \$-7.5-O2 O2 08/16/21 10 - 0.020 <6.2 6.8 \$-12.5-O2 O2 08/16/21 10 - 0.020 <6.2 6.8 \$-12.5-O2 O2 08/16/21 12.5 - 9.3 46.6 9.8 \$-12.5-O2 O2 08/16/21 12.5 - 10.5 40.0 190 0	S-5-P6	P6	10/14/21	5		2,200	1,400b	990
S-12.5-P6 P6 10/14/21 12.5 — 6.0 < 59b 100 S-2.5-P7 P7 08/16/21 5 — 870 4,300 460 S-5.5-P7 P7 08/16/21 5 — 870 4,300 460 S-7.5-P7 P7 08/16/21 7.5 — 1,000 3,700 200 S-10.P7 P7 08/16/21 12.5 — 260 830 310 S-12.5-P7 P7 08/16/21 12.5 — 3.0 1,700 4,000 S-2.5-Q1 Q1 10/14/21 2.5 — 0,36 <5.3 <5.3 S-5-Q1 Q1 10/14/21 7.5 — 2.5 <6.1 <6.1 <6.1 S-7.5-Q1 Q1 10/14/21 7.5 — 0,33 <5.9 38 S-2.5-Q2 Q2 08/16/21 2.5 — 53 150 240 S-5-Q2 Q2 08/16/21 5 — 1.3 S-7.5-Q2 Q2 08/16/21 7.5 — 0,58 <6.1 11 S-10-Q2 Q2 08/16/21 7.5 — 0,58 <6.1 11 S-10-Q2 Q2 08/16/21 10 — 0,020 <6.2 6.8 S-12.5-Q3 Q3 10/14/21 2.5 — 9,3 <6.6 9.8 S-2.5-Q3 Q3 10/14/21 2.5 — 9,3 S-2.5-Q3 Q3 10/14/21 2.5 — 1,3 S-2.5-Q3 Q3 10/14/21 2.5 — 0,58 S-2.5-Q3 Q3 10/14/21 2.5 — 0,58 S-5-Q3 Q3 10/14/21 2.5 — 0,04 S-5-Q4 Q4 08/16/21 12.5 — 0,020 <6.2 6.8 S-5-Q3 Q3 10/14/21 2.5 — 0,03 S-5-Q4 Q4 08/16/21 12.5 — 0,021 S-7.5-Q3 Q3 10/14/21 2.5 — 0,021 S-7.5-Q4 Q4 08/16/21 1.5 — 0,021 S-7.5-Q4 Q4 08/16/21 1.5 — 0,021 S-7.5-Q4 Q4 08/16/21 2.5 — 0,034 S-5-Q4 Q4 08/16/21 2.5 — 0,034 S-5-Q4 Q4 08/16/21 5 — 0,034 S-5-Q4 Q4 08/16/21 5 — 0,034 S-5-Q4 Q4 08/16/21 5 — 0,034 S-7.5-Q4 Q4 08/16/21 10 — 0,027 S-5-Q4 Q4 08/16/21 5 — 0,034 S-7.5-Q4 Q4 08/16/21 10 — 0,027 S-5-Q5 Q5 10/15/21 5 — 0,034 S-7.5-Q5 Q5 10/15/21 5 — 0,034 S-7.5-Q6 Q6 08/12/21 7.5 — 0,047 S-5-Q6 Q6 08/12/21 7.5 — 0,047 S-5-Q6 Q6 08/12/21 7.5 — 0,045 S-5-Q6 Q6 08/12/21 7.5 — 0,046 S-3-S-Q6 Q6 08/12/21 7.5 — 0,056 S-3-S-Q6 Q6 08/12/21 7.5 — 0,056 S-3-S-Q7 R3 08/12/21 10 — 0,056 S-3-S-R3 R3 08/12/21 12.5 — 0,056 S-3-S-R3 R3 08/12/21	S-10-P6	P6	10/14/21					12
S-6-P7 P7 08/16/21 5 — 870 4,300 460 S-7.5-P7 P7 08/16/21 7.5 — 1,000 3,700 200 S-10-P7 P7 08/16/21 10 — 260 830 310 S-12.5-P7 P7 08/16/21 12.5 — 40.36 45.3 400 S-2.5-Q1 Q1 10/14/21 2.5 — 40.36 45.3 <5.3	S-12.5-P6	P6	10/14/21	12.5		6.0	<59b	100
S-5-P7 P7 08/16/21 5 — 870 4,300 460 S-75-P7 P7 08/16/21 7.5 — 1,000 3,700 200 S-10-P7 P7 08/16/21 10 — 260 830 310 S-12.5-P7 P7 08/16/21 12.5 — -0.36 +5.3 +5.3 S-5-O1 Q1 10/14/21 2.5 — -0.36 +5.3 +5.3 S-5-O1 Q1 10/14/21 7.5 — 0.33 +5.9 38 S-2.5-O2 Q2 08/16/21 2.5 — 53 150 240 S-7.5-O2 Q2 08/16/21 2.5 — 53 150 240 S-7.5-O2 Q2 08/16/21 7.5 — 0.58 +6.1 11 S-10-O2 Q2 08/16/21 7.5 — 0.58 +6.1 11 S-10-O2 Q2 08/16/21 7.5 <td>S-2.5-P7</td> <td>P7</td> <td>08/16/21</td> <td>2.5</td> <td></td> <td>110</td> <td>2,800</td> <td>1,500</td>	S-2.5-P7	P7	08/16/21	2.5		110	2,800	1,500
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	S-5-P7	P7	08/16/21			870		
\$-12.5-P7 P7 08/16/21 12.5 3.0 1,700 4,000 \$-2.5-Q1 Q1 10/14/21 2.5 <0.36 <5.3 <5.3 <5.3 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.3 <5.5 <5.5	S-7.5-P7	P7	08/16/21	7.5		1,000	3,700	200
\$-2.5-Q1 Q1 10/14/21 2.5 - <0.36 <5.3 <5.3 <5.3 \$-6-Q1 Q1 10/14/21 5 - <0.5	S-10-P7	P7	08/16/21	10		260		310
S-5-Q1 Q1 10/14/21 5 2.5 <-6.1 <-6.1 S-7.5-Q1 Q1 10/14/21 7.5 0.33	S-12.5-P7	P7	08/16/21	12.5		3.0	1,700	4,000
\$-7.5-Q1 Q1 10/14/21 7.5 0.33 <-5.9 38	S-2.5-Q1	Q1	10/14/21	2.5		<0.36	<5.3	<5.3
\$-2.5-Q2 Q2 08/16/21	S-5-Q1	Q1	10/14/21	5		2.5	<6.1	<6.1
S-5-Q2 Q2 08/16/21 5 1.3 <5.9	S-7.5-Q1	Q1	10/14/21	7.5		0.33	<5.9	38
\$-7.5-Q2 Q2 08/16/21 7.5 0.58 <-6.1 11 \$-10-Q2 Q2 08/16/21 10 <-0.20 <-6.2 6.8 \$-12.5-Q2 Q2 08/16/21 12.5 <-0.21 <-6.1 7.5 \$-2.5-Q3 Q3 10/14/21 5 9.3 <-6.6 9.8 \$-5-Q3 Q3 10/14/21 5 530 810 190 \$-7.5-Q3 Q3 10/14/21 7.5 110 340 61 \$-2.5-Q4 Q4 08/16/21 2.5 2.1 20 17 \$-5-Q4 Q4 08/16/21 5 7.3 100 210 \$-7.5-Q4 Q4 08/16/21 7.5 0.34 22 100 \$-10-Q4 Q4 08/16/21 10 0.27 <-6.0 <-6.0 \$-12.5-Q4 Q4 08/16/21 10 0.27 <-6.0 <-6.0 \$-12.5-Q4 Q4 08/16/21 12.5 0.47 28 56 \$-5-Q5 Q5 10/15/21 5 1.5 31 68 \$-7.5-Q5 Q5 10/15/21 5 1.5 <-1 6.3 <-6.3 \$-7.5-Q6 Q6 08/12/21 7.5 0.44 <-5.6 <-5.6 \$-2.5-Q6 Q6 08/12/21 2.5 0.44 <-5.6 <-5.6 \$-2.5-Q6 Q6 08/12/21 2.5 0.44 <-5.6 <-5.6 \$-2.5-Q6 Q6 08/12/21 10 0.27 <-6.0 <-6.0 \$-1.5-Q5 DUP Q5 10/15/21 5 1.5 <-1 6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.3 <-6.5 <-6.5 <-6.5 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6.6 <-6	S-2.5-Q2	Q2	08/16/21	2.5		53	150	240
S-10-Q2 Q2 08/16/21 10 <0.20	S-5-Q2	Q2	08/16/21	5		1.3	<5.9	76
\$-12.5-Q2 Q2 08/16/21 12.5 <0.21 <6.1 7.5 \$-2.5-Q3 Q3 10/14/21 2.5 9.3 <6.6 9.8 \$-5-Q3 Q3 10/14/21 5 530 810 190 \$-7.5-Q3 Q3 10/14/21 7.5 110 340 61 \$-2.5-Q4 Q4 08/16/21 2.5 2.1 20 17 \$-5-Q4 Q4 08/16/21 5 7.3 100 210 \$-7.5-Q4 Q4 08/16/21 7.5 0.34 22 100 \$-10-Q4 Q4 08/16/21 10 0.27 <6.0 <6.0 \$-12.5-Q4 Q4 08/16/21 110 0.27 <6.0 <6.0 \$-12.5-Q4 Q4 08/16/21 12.5 40.47 28 56 \$-5-Q5 Q5 10/15/21 5 1.5 <31 68 \$-7.5-Q5 Q5 10/15/21 7.5 0.45 <6.3 <6.3 \$-7.5-Q5 Q5 10/15/21 7.5 0.44 <5.6 <5.6 \$-2.5-Q6 Q6 08/12/21 2.5 2.100 6.000 170 \$-5-Q6 Q6 08/12/21 5 590 3.400 140 \$-7.5-Q6 Q6 08/12/21 10 130 6.3 <6.1 \$-10-Q6 Q6 08/12/21 10 130 6.3 <6.1 \$-10-Q6 Q6 08/12/21 10 130 6.3 <6.1 \$-12.5-Q1 R1 08/12/21 12.5 0.80 <6.1 <6.1 \$-10-Q6 Q6 08/12/21 10 130 6.3 <6.1 \$-12.5-R1 R1 08/12/21 12.5 190 1,300 640 \$-5-R1 R1 08/12/21 10 0.36 63 200 \$-12.5-R1 R1 08/12/21 10 0.36 63 200 \$-12.5-R1 R1 08/12/21 10 0.36 63 200 \$-12.5-R1 R1 08/12/21 12.5 12.0 66 220 \$-10-R1 R1 08/12/21 12.5 0.51 <6.0 <6.0 \$-5-R3 R3 08/12/21 12.5 0.55 <6.5 <6.5 \$-5-R3 R3 08/12/21 12.5 0.57 < 0.58 <25 300 \$-2.5-R3 R3 08/12/21 15 0.57 < 0.58 <25 300 \$-2.5-R3 R3 08/12/21 10 0.074 32 480 \$-7.5-R3 R3 08/12/21 7.5 0.014 <5.9 <5.9 \$-10-R3 R3 08/12/21 10 0.014 <5.9 <5.9 \$-10-R3 R3 08/12/21 7.5 0.014 <5.9 <5.9 \$-10-R3 R3 08/12/21 10 0.014 <5.9 <5	S-7.5-Q2	Q2	08/16/21	7.5		0.58	<6.1	11
S-2.5-Q3 Q3 10/14/21 2.5 9.3 <6.6	S-10-Q2	Q2	08/16/21	10		<0.20	<6.2	6.8
S-5-Q3 Q3 10/14/21 5 530 810 190 S-7.5-Q3 Q3 10/14/21 7.5 110 340 61 S-2.5-Q4 Q4 08/16/21 2.5 2.1 20 17 S-5-Q4 Q4 08/16/21 5 7.3 100 210 S-7.5-Q4 Q4 08/16/21 10 0.34 22 100 S-10-Q4 Q4 08/16/21 10 0.27 <6.0	S-12.5-Q2	Q2	08/16/21	12.5		<0.21	<6.1	7.5
S-7.5-Q3 Q3 10/14/21 7.5 110 340 61 S-2.5-Q4 Q4 08/16/21 2.5 2.1 20 17 S-5-Q4 Q4 08/16/21 5 7.3 100 210 S-7.5-Q4 Q4 08/16/21 7.5 0.34 22 100 S-10-Q4 Q4 08/16/21 10 0.27 <6.0	S-2.5-Q3	Q3	10/14/21	2.5		9.3	<6.6	9.8
S-2.5-Q4 Q4 08/16/21 2.5 2.1 20 17 S-5-Q4 Q4 08/16/21 5 7.3 100 210 S-7.5-Q4 Q4 08/16/21 7.5 0.34 22 100 S-10-Q4 Q4 08/16/21 10 0.27 <6.0	S-5-Q3	Q3	10/14/21	5		530	810	190
S-5-Q4 Q4 08/16/21 5 7.3 100 210 S-7.5-Q4 Q4 08/16/21 7.5 0.34 22 100 S-10-Q4 Q4 08/16/21 10 0.27 <6.0	S-7.5-Q3	Q3	10/14/21	7.5		110	340	61
S-7.5-Q4 Q4 08/16/21 7.5 0.34 22 100 S-10-Q4 Q4 08/16/21 10 0.27 <6.0	S-2.5-Q4	Q4	08/16/21	2.5		2.1	20	17
S-10-Q4 Q4 08/16/21 10 0.27 <6.0	S-5-Q4	Q4	08/16/21	5		7.3	100	210
S-12.5-Q4 Q4 08/16/21 12.5 <0.47	S-7.5-Q4	Q4	08/16/21	7.5		0.34	22	100
S-5-Q5 Q5 10/15/21 5 1.5 <31 68 S-7.5-Q5 Q5 10/15/21 7.5 0.45 <6.3 <6.3 S-7.5-Q5 DUP Q5 10/15/21 7.5 0.44 <5.6 <5.6 S-2.5-Q6 Q6 08/12/21 2.5 2,100 6,000 170 S-5-Q6 Q6 08/12/21 5 590 3,400 140 S-7.5-Q6 Q6 08/12/21 7.5 0.80 <6.1 <6.1 S-10-Q6 Q6 08/12/21 10 130 6.3 <6.1 S-12-5-Q6 Q6 08/12/21 12.5 33 9.5 8.1 S-2.5-R1 R1 08/12/21 2.5 190 1,300 640 S-7.5-R1 R1 08/12/21 5 0.51 <6.0 <6.0 S-10-R1 R1 08/12/21	S-10-Q4	Q4	08/16/21	10		0.27	<6.0	<6.0
S-7.5-Q5 Q5 10/15/21 7.5 0.45 <6.3	S-12.5-Q4	Q4	08/16/21	12.5		< 0.47	28	56
S-7.5-Q5 DUP Q5 10/15/21 7.5 0.44 <5.6	S-5-Q5	Q5	10/15/21	5		1.5	<31	68
S-2.5-Q6 Q6 08/12/21 2.5 2,100 6,000 170 S-5-Q6 Q6 08/12/21 5 590 3,400 140 S-7.5-Q6 Q6 08/12/21 7.5 0.80 <6.1	S-7.5-Q5	Q5	10/15/21	7.5		0.45	<6.3	<6.3
S-5-Q6 Q6 08/12/21 5 590 3,400 140 S-7.5-Q6 Q6 08/12/21 7.5 0.80 <6.1	S-7.5-Q5 DUP	Q5	10/15/21	7.5		0.44	<5.6	<5.6
S-7.5-Q6 Q6 08/12/21 7.5 0.80 <6.1	S-2.5-Q6	Q6	08/12/21	2.5		2,100	6,000	170
S-10-Q6 Q6 08/12/21 10 130 6.3 <6.1	S-5-Q6	Q6	08/12/21	5		590	3,400	140
S-12.5-Q6 Q6 08/12/21 12.5 33 9.5 8.1 S-2.5-R1 R1 08/12/21 2.5 190 1,300 640 S-5-R1 R1 08/12/21 5 0.51 <6.0	S-7.5-Q6	Q6	08/12/21	7.5		0.80	<6.1	<6.1
S-2.5-R1 R1 08/12/21 2.5 190 1,300 640 S-5-R1 R1 08/12/21 5 0.51 <6.0	S-10-Q6	Q6	08/12/21	10		130	6.3	<6.1
S-5-R1 R1 08/12/21 5 0.51 <6.0	S-12.5-Q6	Q6	08/12/21	12.5		33	9.5	8.1
S-7.5-R1 R1 08/12/21 7.5 1.2 66 220 S-10-R1 R1 08/12/21 10 0.36 63 200 S-12.5-R1 R1 08/12/21 12.5 <0.58	S-2.5-R1	R1	08/12/21	2.5		190	1,300	640
S-10-R1 R1 08/12/21 10 0.36 63 200 S-12.5-R1 R1 08/12/21 12.5 <0.58	S-5-R1	R1	08/12/21	5		0.51	<6.0	<6.0
S-12.5-R1 R1 08/12/21 12.5 <0.58	S-7.5-R1	R1	08/12/21	7.5		1.2	66	220
S-2.5-R3 R3 08/12/21 2.5 0.55 <6.5	S-10-R1	R1	08/12/21	10		0.36	63	200
S-5-R3 R3 08/12/21 5 0.74 32 480 S-7.5-R3 R3 08/12/21 7.5 <0.14	S-12.5-R1	R1	08/12/21	12.5		<0.58	<25	300
S-7.5-R3 R3 08/12/21 7.5 <0.14 <5.9 <5.9 S-10-R3 R3 08/12/21 10 <0.11 <5.9 <5.9	S-2.5-R3	R3	08/12/21	2.5		0.55	<6.5	<6.5
S-10-R3 R3 08/12/21 10 <0.11 <5.9 <5.9	S-5-R3	R3	08/12/21			0.74	32	480
	S-7.5-R3	R3	08/12/21	7.5		<0.14	<5.9	<5.9
Site-Specific Residual Saturation Remediation Levels 2,470 4,800 5.810	S-10-R3	R3	08/12/21	10		<0.11	<5.9	<5.9
\cdot	Site-Specific Resid	ual Saturation	Remediation	Levels		2,470	4,800	5,810

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Sample Name	Location	Date	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
	Location	Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)
					/		
Stantec - Site Cha							440
S-12.5-R3	R3	08/12/21	12.5		<1.3	<19	110
S-5-R4	R4	10/15/21	5		4.7	<6.3	40
S-7.5-R4	R4	10/15/21	7.5		1.7	<29	260
S-2.5-R5	R5	08/12/21	2.5		1.0	7.5	17
S-10-R5	R5	08/12/21	10		38	140	130
S-10-R5 DUP	R5	08/12/21	10		450	140	130
S-12.5-R5	R5	08/12/21	12.5		15	<6.3	7.7
S-7.5-R5A	R5A	10/15/21	7.5		2.1	<6.0	<6.0
S-2.5-S1	S1	10/14/21	2.5		<0.24	<13	62
S-5-S1	S1	10/14/21	5		<0.20	<5.7	<5.7
S-7.5-S1	S1	10/14/21	7.5		0.24	<5.8	<5.8
S-2.5-S2	S2	08/12/21	2.5		0.39	21	120
S-5-S2	S2	08/12/21	5		0.25	15	140
S-7.5-S2	S2	08/12/21	7.5		<0.20	<5.8	<5.8
S-10-S2	S2	08/12/21	10		0.21	20	49
S-12.5-S2	S2	08/12/21	12.5		<0.50	<14	74
S-2.5-S4	S4	08/12/21	2.5		0.60	<6.2	<6.2
S-5-S4	S4	08/12/21	5		0.25	<5.9	23
S-7.5-S4	S4	08/12/21	7.5		<0.23	<6.2	<6.2
S-10-S4	S4	08/12/21	10		0.12	10	180
S-12.5-S4	S4	08/12/21	12.5		<0.97	<18	220
S-2.5-T1	T1	08/16/21	2.5		0.29	20	59
S-5-T1	T1	08/16/21	5		<0.21	19	18
S-7.5-T1	T1	08/16/21	7.5		<0.11	13	12
S-10-T1	T1	08/16/21	10		<0.77	17	33
S-12.5-T1	T1	08/16/21	12.5		<0.88	<23	25
S-2.5-T3	T3	08/16/21	2.5		<0.20	6.3	8.3
S-5-T3	T3	08/16/21	5		<0.19	<5.6	6.0
S-7.5-T3	T3	08/16/21	7.5		<0.19	16	13
S-10-T3	T3	08/16/21	10		<0.11	220	1,400
S-12.5-T3	T3	08/16/21	12.5	 	<0.23	<20	1,400 49
0-12.0-13	13	00/10/21	12.5		~0.73	~20	1 3

Site-Specific Residual Saturation Remediation Levels	2 470	4.800	5.810

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Sample Name	Location	Date	Sample Depth	LNAPL	TPHg	TPHd	TPHmo
Sample Name		Date	(feet bgs)	Observed	(mg/kg)	(mg/kg)	(mg/kg)

EXPLANATION:

feet bgs = Feet below ground surface

mg/kg = Milligrams per kilogram

LNAPL = Light Non-aqueous Phase Liquid

TPHg = Total Petroleum Hydrocarbons as Gasoline in accordance with Ecology Method NWTPH-Gx

TPHd, TPHmo = Total Petroleum Hydrocarbons as Diesel and as Oil, respectively, in accordance with Ecology Method NWTPH-Dx All TPHd and TPHmo samples analyzed with silica gel cleanup

< = Less than the stated laboratory reporting limit

-- = Not Observed; Not Analyzed

Shaded values equal or exceed Site-Specific Residual Saturation Remediation Level

a = Sample aliquot taken from unpreserved jar; analytical method specifies methanol or sodium bisulfate preservation

b = TPHd detected in equipment blank sample

H = Sample was prepped or analyzed beyond the specified holding time

REVISED DRAFT SITE CHARACTERIZATION/FOCUSED FEASIBILITY STUDY ADDENDUM

ExxonMobil ADC June 30, 2023

APPENDIX A Correspondence



Project Number: 238000337.R14a

DEPARTMENT OF ECOLOGY

Toxics Cleanup Program

Technical Memorandum

TO: Bobby Thompson, Project Manager, Cardno/Stantec

FROM: JG Cook, LG, RG, Washington Department of Ecology (Ecology)

DATE: February 3, 2022

SUBJECT: Site Characterization/Focused Feasibility Report – ExxonMobil / ADC Property-Ecology

Site 2728, Everett, Washington

Technical Review Comments for

Name of	Site Characterization/Focused Feasibility Report (SC/FFS) – ExxonMobil / ADC
Document	Property-Ecology Site 2728, Everett, Washington
Date	Feb. 3, 2022
Prepared By	Wood & Cardno
Reviewed By	J.G. Cook, LG, RG

Exxon/ADC et. al. prepared the above-referenced SC/FFS, which summarizes all previous characterization activities, interimactions, & miscellaneous Site activities, and the evaluation and selection of proposed final cleanup remedies. Three permanent soil remedies and two groundwater remedies were evaluated. Ecology again, concurs with the preferred/selected remedies outlined in the SC/FFS, and its our expectation these remedies will be implemented and completed within a reasonable time frame:

- Soil/Source Area Remediation Alternative no.1 LNAPL Excavation & Natural Source Zone Attenuation.
- Groundwater Remediation Alternative no.1 Monitored Natural Attenuation with Conditional Points of Compliance and associated monitoring.

Ecology has the following additional comments:

- Please incorporate the data generated during the Cardno pre-excavation delineation on the Exxon/ADC Parcels, as was completed in Sections 2.4.2, 3.2.4, 5.1.2, 6.0, 6.1 for the Port of Everett parcels, and include as an Appendix.
- Adjust the DCA to incorporate the additional amount of material to be removed/excavated.
 Note, Ecology does not support re-evaluation of the previously selected soil and groundwater alternatives referenced above.

Please contact me at 360.407.6834 (o), 360.763.2777(c) or e-mail at <u>jason.cook@ECY.wa.gov</u> if you have any questions or are in need of clarification.

Sincerely:

J.G. Cook, LG, RG

Headquarters – Toxics Cleanup Program

Washington Department of Ecology

REVISED DRAFT SITE CHARACTERIZATION/FOCUSED FEASIBILITY STUDY ADDENDUM

ExxonMobil ADC June 30, 2023

APPENDIX B Field Protocol



Project Number: 238000337.R14a



Soil Boring and Well Installation Field Protocol

Preliminary Activities

Prior to the onset of field activities at the site, Stantec obtains the appropriate permit(s) from the governing agency(s). Advance notification is made as required by the agency(s) prior to the start of work. Stantec marks the borehole locations and contacts the local one call utility locating service at least 48 hours prior to the start of work to mark buried utilities. Borehole locations may also be checked for buried utilities by a private geophysical surveyor. Prior to drilling, the borehole location is cleared in accordance with the client's procedures. Fieldwork is conducted under the advisement of a registered professional geologist and in accordance with an updated site-specific safety plan prepared for the project, which is available at the job site during field activities.

Drilling and Soil Sampling Procedures

Stantec contracts a licensed driller to advance the boring and collect soil samples. The specific drilling method (e.g., hollow-stem auger, direct push method, or sonic drilling), sampling method [e.g., core barrel or California-modified split spoon sampler (CMSSS)] and sampling depths are documented on the boring log and may be specified in a work plan. Soil samples are typically collected at the capillary fringe and at 5-foot intervals to the total depth of the boring. To determine the depth of the capillary fringe prior to drilling, the static groundwater level is measured with a water level indicator in the closest monitoring well to the boring location, if available.

The borehole is advanced to just above the desired sampling depth. For CMSSSs, the sampler is placed inside the auger and driven to a depth of 18 inches past the bit of the auger. The sampler is driven into the soil with a standard 140 pound hammer repeatedly dropped from a height of 30 inches onto the sampler. The number of blows required to drive the sampler each 6-inch increment is recorded on the boring log. For core samplers (e.g., direct push), the core is driven 18 inches using the rig apparatus.

Soil samples are preserved in the metal or plastic sleeve used with the CMSSS or core sampler, in glass jars or other manner required by the local regulatory agency (e.g., Environmental Protection Agency Method 5035). Sleeves are removed from the sample barrel, and the lowermost sample sleeve is immediately sealed with Teflon™ tape, capped and labeled. Samples are placed in a cooler chilled to 4° Celsius and transported to a state-certified laboratory. The samples are transferred under chain-of-custody (COC) protocol.

Field Screening Procedures

Stantec places the soil from the middle of the sampling interval into a plastic re-sealable bag. The bag is placed away from direct sunlight for approximately 20 minutes, after which the tip of a photo-ionization detector (PID) or similar device is inserted through the plastic bag to measure organic vapor concentrations in the headspace. The PID measurement is recorded on the boring log. At a minimum, the PID or other device is calibrated on a daily basis in accordance with manufacturer's specifications using a hexane or isobutylene standard. The calibration gas and concentration are recorded on a calibration log. Instruments such as the PID are useful for evaluating relative concentrations of volatilized hydrocarbons, but they do not measure the concentration of petroleum hydrocarbons in the soil matrix with the same precision as laboratory analysis. Stantec trained personnel describe the soil in the bag according to the Unified Soil Classification System and record the description on the boring log, which is included in the final report.

Air Monitoring Procedures

Stantec performs a field evaluation for volatile hydrocarbon concentrations in the breathing zone using a calibrated photo-ionization detector or lower explosive level meter.

Groundwater Sampling

A groundwater sample, if desired, is collected from the boring by using HydropunchTM sampling technology or installing a well in the borehole. In the case of using HydropunchTM technology, after collecting the capillary fringe soil sample, the boring is advanced to the top of the soil/groundwater interface and a sampling probe is pushed to approximately 2 feet below the top of the static water level. The probe is opened by partially withdrawing it and thereby exposing the screen. A new or decontaminated bailer is used to collect a water sample from the probe. The water sample is then emptied into laboratory-supplied containers constructed of the correct material and with the correct volume and preservative to comply with the proposed laboratory test. The container is slowly filled with the retrieved water sample until no headspace remains and then promptly sealed with a Teflon-lined cap, checked for the presence of bubbles, labeled, entered onto a COC record and placed in chilled storage at 4° Celsius. Laboratory-supplied trip blanks accompany the water samples as a quality assurance/quality control procedure. Equipment blanks may be collected as required. The samples are kept in chilled storage and transported under COC protocol to a client-approved, state-certified laboratory for analysis.

Backfilling of Soil Boring

If a well is not installed, the boring is backfilled from total depth to approximately 5 feet below ground surface (bgs) with either neat cement or bentonite grout using a tremie pipe and either the boring is backfilled from 5 feet bgs to approximately 1 foot bgs with hydrated bentonite chips or backfill is continued to just below grade with neat cement grout. The borehole is completed to surface grade with material that best matches existing surface conditions and meets local agency requirements. Site-specific backfilling details are shown on the respective boring log.

Well Construction

A well (if constructed) is completed using materials documented on the boring log or specified in a work plan. The well is constructed with slotted casing across the desired groundwater sampling depth(s) and completed with blank casing to within 6 inches of surface grade. No further construction is conducted on temporary wells. For permanent wells, the annular space of the well is backfilled with Monterey sand from the total depth to approximately 2 feet above the top of the screened casing. A hydrated granular bentonite seal is placed on top of the sand filter pack. Grout may be placed on top of the bentonite seal to the desired depth using a tremie pipe. The well may be completed to surface grade with a 1-foot thick concrete pad. A traffic-rated well vault and locking cap for the well casing may be installed to protect against surface-water infiltration and unauthorized entry. Site-specific well construction details including type of well, well depth, casing diameter, slot size, length of screen interval and sand size are documented on the boring log or specified in the work plan.

Well Development and Sampling

If a permanent groundwater monitoring well is installed, the grout is allowed to cure a minimum of 48 hours before development. Stantec personnel or a contracted driller use a submersible pump or surge block to develop the newly installed well. Prior to development, the pump is decontaminated by allowing it to run and re-circulate while immersed in a non-phosphate solution followed by successive immersions in potable water and de-ionized water baths. The well is developed until sufficient well casing volumes are removed so that turbidity is within allowable limits and pH, conductivity and temperature levels stabilize in the purge water. The volume of groundwater extracted is recorded on a log.

Following development, groundwater within the well is allowed to recharge until at least 80% of the drawdown is recovered. A new or decontaminated bailer is slowly lowered past the air/water interface in the well, and a water sample is collected and checked for the presence of non-aqueous phase liquid, sheen, or emulsions. The water sample is then emptied into laboratory-supplied containers as discussed above.

Surveying

If required, wells are surveyed by a licensed land surveyor relative to an established benchmark of known elevation above mean sea level to an accuracy of +/- 0.01 foot. The casing is notched or marked on one side to identify a consistent surveying and measuring point.

Decontamination Procedures

Stantec or the contracted driller decontaminates soil and water sampling equipment between each sampling event with a non-phosphate solution, followed by a minimum of two tap water rinses. De-ionized water may be used for the final rinse. Downhole drilling equipment is steam-cleaned prior to drilling the borehole and at completion of the borehole.

Waste Treatment and Soil Disposal

Soil cuttings generated from the drilling or sampling are stored on site in labeled, Department of Transportation-approved, 55-gallon drums or other appropriate storage container. The soil is removed from the site and transported under manifest to a client- and regulatory-approved facility for recycling or disposal. Decontamination fluids and purge water from well development and sampling activities, if conducted, are stored on site in labeled, regulatory-approved storage containers. Fluids are subsequently transported under manifest to a client- and regulatory-approved facility for disposal or treated with a permitted mobile or fixed-base carbon treatment system.

APPENDIX C Boring Logs

Project Number: 238000337.R14a



(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Louchappell

Date Drilled: : 10/13/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

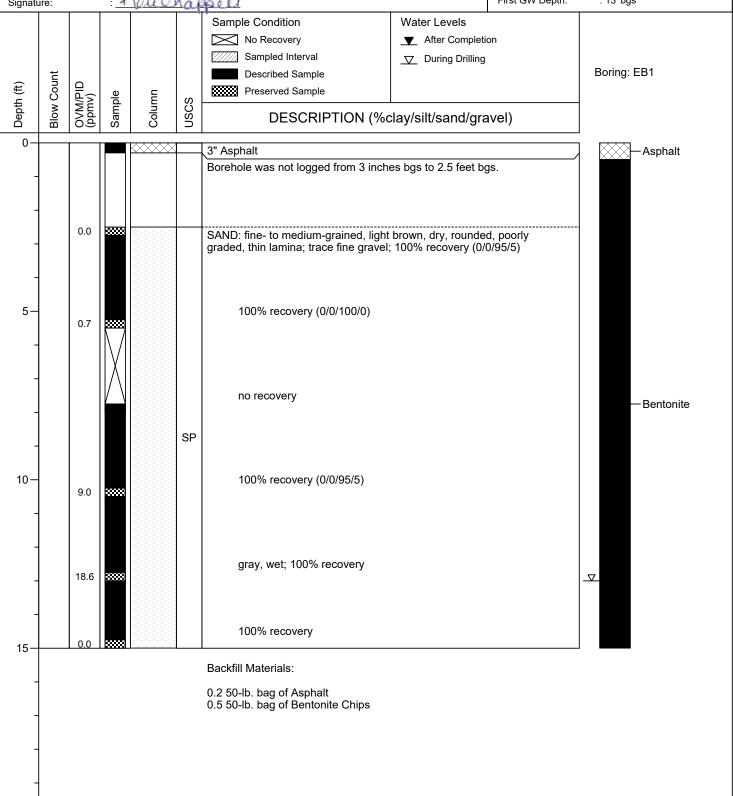
 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 15' bgs

 First GW Depth:
 : 13' bgs





(Page 1 of 1)

Project No.: : 031447

Logged By: : Brett McLees

15-

20

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Louchapell

Date Drilled: : 10/13/20

Drilling Co.: : Holocene Drilling, Inc.

Boring: EB2

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 10' bgs

First GW Depth: : N/A

Sample Condition

No Recovery

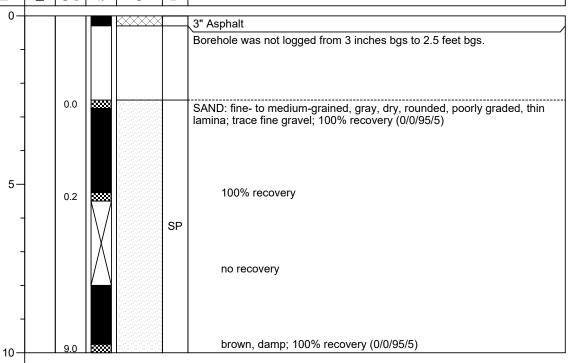
Sampled Interval

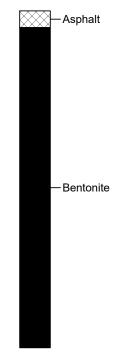
Described Sample

Preserved Sample

DESCRIPTION (%clay/silt/sand/gravel)

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA





Backfill Materials:

0.2 50-lb. bag of Asphalt



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Lucha 60 0 U

Date Drilled: : 10/12/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : N/A

Signatu	ıre:		+	Seil O	has	pell		First GW Depth:	: N/A
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	Water Levels ▼ After Completion ▼ During Drilling Clay/silt/sand/gra		Boring: EB3
0-						3" Asphalt			— Asphalt
-						Borehole was not logged from 3 inch	es bgs to 2.5 feet bg	gs.	
-			****		SP	SAND: fine- to medium-grained, gray gravel, subangular; 40% recovery (0/	brown, dry; fine to (10/50/40)	coarse	
5-			****		ML	SILT: dark brown to olive gray, damp recovery (0/90/0/10)	, fine gravel, subanç	gular; 50%	
-			2000			SAND: fine- to coarse-grained, dark l recovery (0/5/95/0)	prown, moist; trace s	silt; 60%	— Bentonite
10-			20000		SW	100% recovery			
-			*****			100% recovery			
4.5			20000			100% recovery (0/5/90/5)			
15—					•	Backfill Materials:			
-						0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips			
-						Note: PID unavailable for use during	fieldwork on 10/12/2	20.	
20 —									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Local Chappell

Date Drilled: : 10/12/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : 10' bgs

Signatu	re:		1	Jours	nay	pell		First GW Depth:	: 10' bgs
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%c	Water Levels ▼ After Completion □ During Drilling clay/silt/sand/gra		Boring: EB4
0						3" Asphalt			— Asphalt
-			****			GRAVEL with Sand: fine to coarse gr coarse-grained sand, brown, damp; to (0/5/45/50)	avel, subrounded; r	 nedium- to	, XXXX
5-			****		GP				
10-			****		SP	SAND with Gravel: medium- to coarse poorly graded; fine to coarse gravel, s silt and silty clasts; 50% recovery (0/5) black to dark gray, wet; gravel s 50% recovery (0/5/85/10)	subrounded, poorly 5/75/20)	graded; trace	— Bentonite
-			*****			100% recovery			
15			****			100% recovery			
						Backfill Materials:			
-						0.2 50-lb. bag of Asphalt			
						0.5 50-lb. bag of Bentonite Chips			
						Note: PID unavailable for use during	fieldwork on 10/12/2	20.	
20 —									



(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

20-

Date Drilled: : 10/12/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe : Dual Tube Sampling Method:

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 10' bgs

Review Signatu			: Ke : ⊁	ri Chappell	, L.G.	2719 20		Total Depth: First GW Depth:	: 10' bgs : N/A
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	SOSU	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%condition)	Water Levels ▼ After Completion ▼ During Drilling		Boring: EB5
0-						3" Asphalt Borehole was not logged from 3 inche	es bgs to 2.5 feet bg	js.	— Asphalt
-			****			GRAVEL with Sand: fine to coarse gr fine- to coarse-grained sand, light gra 80% recovery (0/5/40/55)	avel, subrounded to y, dry, well graded;	subangular; trace silt;	
5— - -			2000		GP	well graded sand, occasional s (0/5/30/65)	ilty clasts; 80% reco	overy	— Bentonite
_			*****		SP	SAND with Gravel: medium- to coars graded; fine to coarse gravel, subang trace silt; 80% recovery (0/5/70/25) 100% recovery	ə-grained, gray, dry ular to subrounded,	, poorly well graded;	
10 —			<u> </u>			Backfill Materials:			_
=						0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips			
_						Note: PID unavailable for use during	fieldwork on 10/12/2	20.	
=									
-									
15—									
=									
-									
-									



: 031447

BORING LOG EB6

(Page 1 of 1)

(Page 1

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Project No.:

Site:

02-27-2023 \\US0326-PPFSS01\shared_projects\238000337working_fles\BORING LOGS\2020 Excavation Delineation\031447.EB6.bor

20-

Date Drilled: : 10/12/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 10' bgs

First GW Depth: : N/A

	ea By: ewed By: iture:		: Ke	ri Chappell	L.G.	2719 2011		Total Depth: First GW Depth:	: 10' bgs : N/A
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	SOSU	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	Water Levels ▼ After Completi ▼ During Drilling Clay/silt/sand/gra		Boring: EB6
0.	-					3" Asphalt Borehole was not logged from 3 inch	es bgs to 2.5 feet bo	gs.	— Asphalt
eatonivo 1447. Ebo. Doi						GRAVEL with Sand: fine to coarse gravel, subangular to subrounded; fine- to coarse-grained sand, light gray, dry, well graded; trace silt; 60% recovery (0/5/40/55) gray, well graded sand; trace silty clasts; 80% recovery (0/5/30/65)			— Bentonite
OZO EXCAVATOLI DELL	-				SP	SAND with Gravel: medium- to coars graded; fine to coarse gravel, subang 80% recovery (0/5/75/20) 100% recovery (0/5/75/20)	e-grained, gray, dar Jular to subrounded	np, poorly ; trace silt;	
10.				1-: :::::::::::::::::::::::::::::::::::	Į.	Backfill Materials:			_
וופארם אל הבלים אל ה הבלים הבלים אל הבלים	-					0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips	5 11 1 40/40V	20	
E This is the control of the control	- - - -					Note: PID unavailable for use during	fieldwork on 10/12/2	20.	



(Page 1 of 1)

Project No.: : 031447

20-

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

: Keri Chappell, L.G. 2719 Reviewed Bv:

Date Drilled: : 10/12/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe : Dual Tube Sampling Method:

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 10' bgs

Reviewed By Signature:	/ :	∶Keı ∶ ⊀	ri Chappell,	L.G.	2719 30 0 U		Total Depth: First GW Depth:	: 10' bgs : N/A
Depth (ft) Blow Count	OVM/PID (vmqq)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%c	Water Levels ▼ After Completi ▼ During Drilling Clay/silt/sand/gra		Boring: EB7
0					3" Asphalt Boring was not logged from 3 inches No recovery	bgs to 5 feet bgs.		— Asphalt
5-		****		GW	GRAVEL with Sand: fine to coarse gr well graded; fine- to coarse-grained s graded; trace silty clasts; 30% recove SILT: olive brown, damp, well consoli			— Bentonite
10		****		SP	SAND: medium- to coarse-grained, d \trace fine gravel, subangular; 80% re Backfill Materials:	lamp, poorly graded covery (0/5/90/5)	l, non-plastic;	
					0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips Note: PID unavailable for use during	field work on 10/12/	/20.	
15—								
-								



(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Louchappell

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

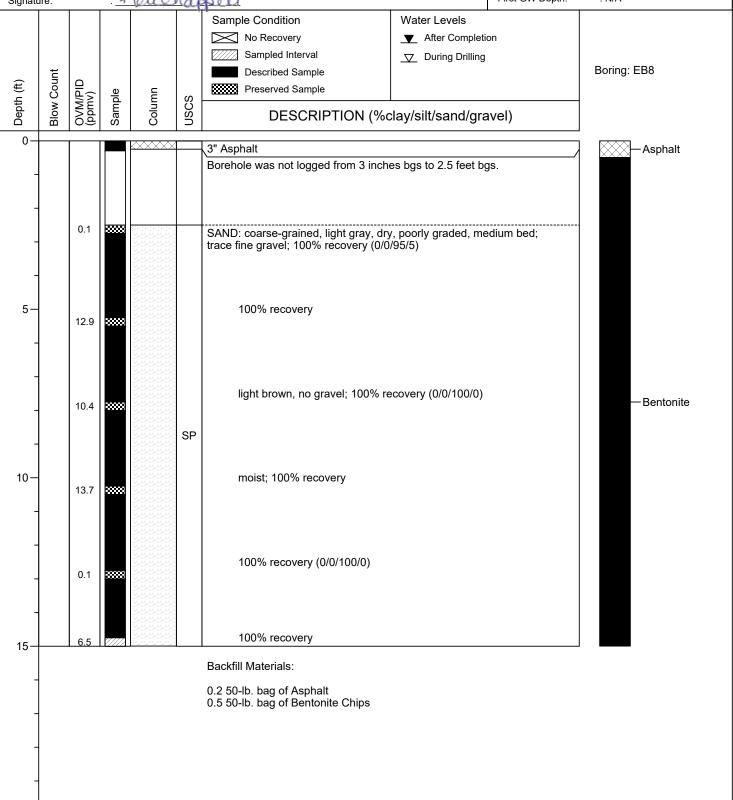
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : N/A





(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

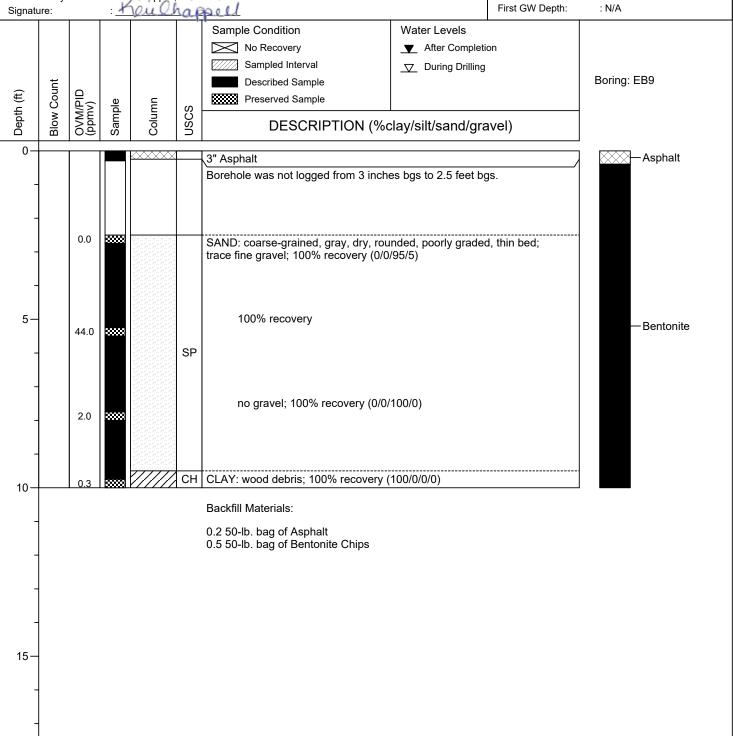
20

Reviewed By: : Keri Chappell, L.G. 2719 Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchapell

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

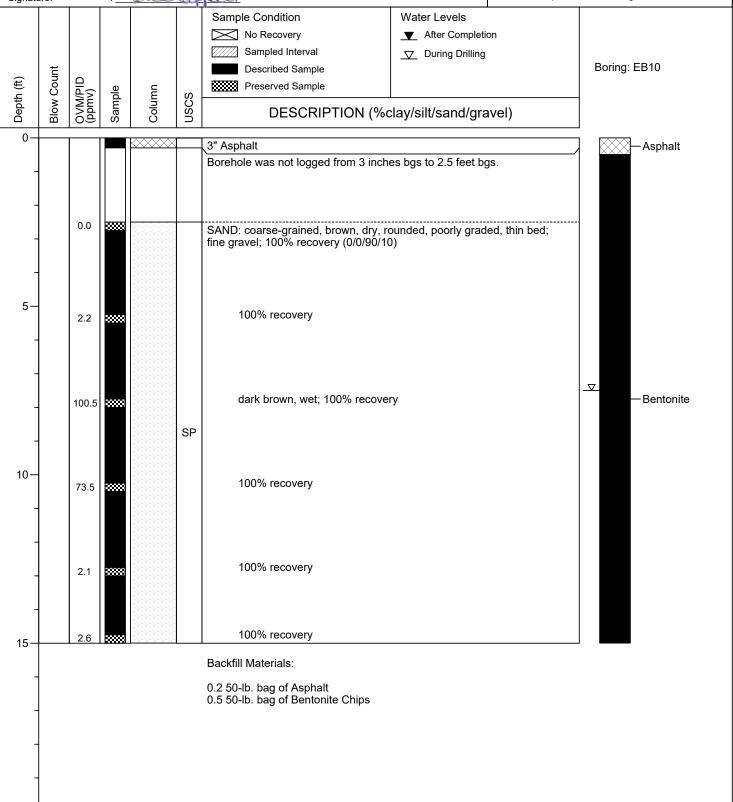
 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 15' bgs

 First GW Depth:
 : 7.5' bgs





(Page 1 of 1)

Date Drilled: : 10/12/20

Drilling Co.: : Holocene Drilling, Inc. Drilling Method: : Push Probe

Sampling Method: : Dual Tube Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs

Project No.: : 031447

20

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

First GW Depth: : 7.5' bgs Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling Boring: EB11 **Described Sample Blow Count** OVM/PID (ppmv) Depth (ft) Preserved Sample Column Sample **USCS** DESCRIPTION (%clay/silt/sand/gravel) 0 3" Asphalt Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs. SAND with Gravel: fine- to coarse-grained, dark brown, damp, well graded; fine to coarse gravel, subangular to angular, well graded; 60% recovery (0/10/50/40) SW SILT: moist, reduced organic material; 100% recovery (0/100/0/0) ML 5 SAND: medium- to coarse-grained, light brown, damp, poorly graded; trace silt; 60% recovery (0/5/95/0) ∇ gray, wet, NAPL observed; 100% recovery Bentonite 10-SP NAPL observed; 100% recovery NAPL observed; 100% recovery no NAPL; 100% recovery 15 **Backfill Materials:** 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips Note: PID unavailable for use during fieldwork on 10/12/20.



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchapell

Date Drilled: : 10/12/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 15' bgs

 First GW Depth:
 : 12.5' bgs

Signature:		1	leul	rap	pell		First GW Depth:	: 12.5' bgs
Depth (ft) Blow Count	OVM/PID (vmdd)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%c	Water Levels ▼ After Completi ▽ During Drilling Clay/silt/sand/gra		Boring: EB12
0					3" Asphalt			— Asphalt
					Borehole was not logged from 3 inche	es bgs to 2.5 feet bo	gs.	Дорган
-		****		sw	SAND with Gravel: fine- to coarse-gra graded; fine to coarse gravel, subang 60% recovery (0/5/55/40)	ained, gray brown, c jular to subrounded,	damp, well , well graded;	
5-		2000			SAND: fine- to coarse-grained, mostl brown, damp, poorly graded; trace sil	y medium- to coarse lt; 60% recovery (0/	e-grained, 5/95/0)	
-					fine- to medium-grained, dark t (0/5/95/0)	— Bentonite		
10-		3000X		SP	coarse-grained, gray, moist, po	oorly graded; 100%	recovery	
-		38888			NAPL observed, wet; 100% red			
15		****	gradiadradradrad Mungamananan		fine gravel, subrounded; 100%	recovery (0/5/85/10	0)	
					Backfill Materials:			
					0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips			
					Note: PID unavailable for use during	fieldwork on 10/12/2	20.	
20-								



(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luckapell

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

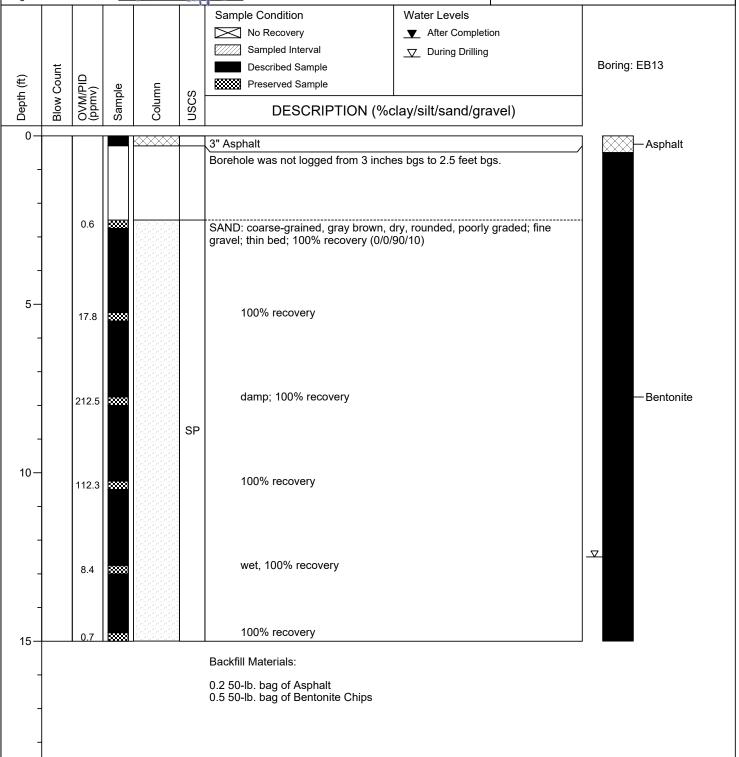
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : 12.5' bgs





(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchapell

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

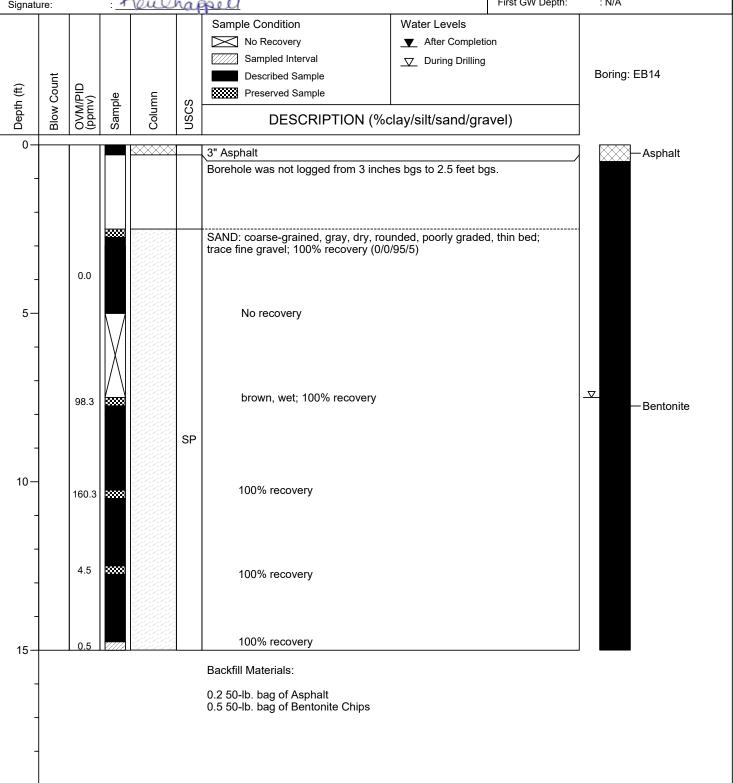
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : N/A





(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Louch a political content of the content of

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

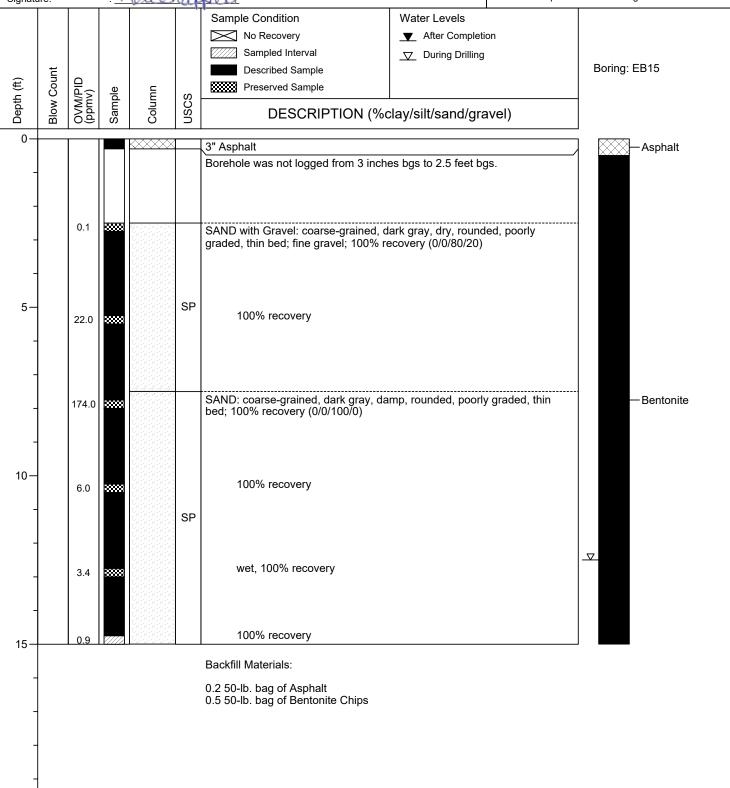
 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 15' bgs

 First GW Depth:
 : 12.5' bgs





(Page 1 of 1)

Project No.: : 031447

20

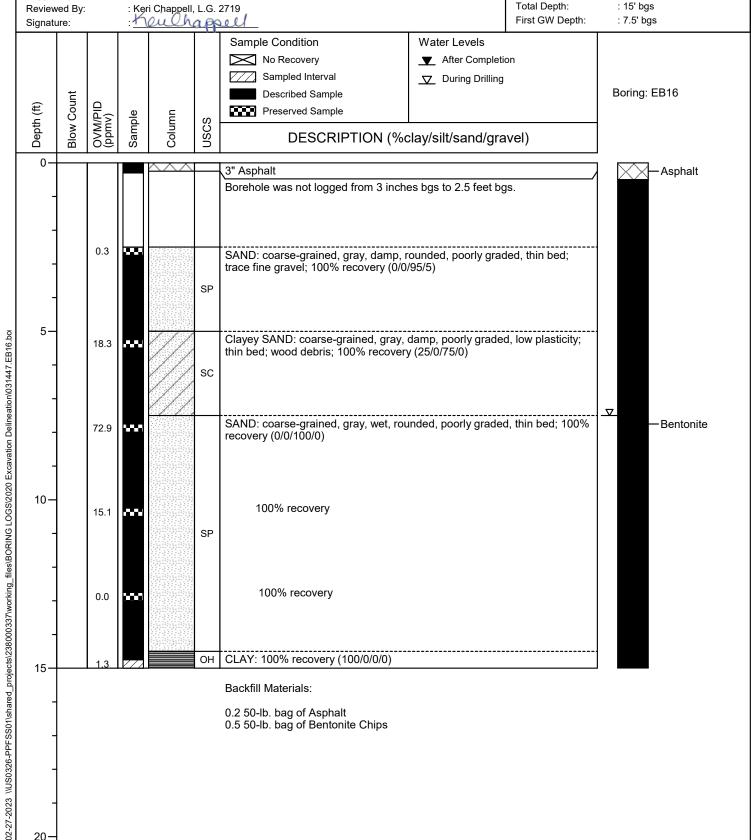
: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees Date Drilled: : 10/13/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs





(Page 1 of 1)

Project No.: : 031447

02-27-2023 \\US0326-PPFSS01\shared_projects\238000337\working_files\BORING LOGS\2020 Excavation Delineation\031447.EB17.bol

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Date Drilled: : 10/13/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : 12 5' bgs

Total Depth: Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell First GW Depth: : 12.5' bgs Signature: Sample Condition Water Levels No Recovery After Completion Sampled Interval □ During Drilling Boring: EB17 **Described Sample Blow Count** OVM/PID (ppmv) Depth (ft) Sample Preserved Sample Column **USCS** DESCRIPTION (%clay/silt/sand/gravel) 3" Asphalt -Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs. 0.1 SAND with Gravel: medium- to coarse-grained, gray, dry, rounded, poorly graded, thin lamina; trace fine gravel; 100% recovery (0/0/95/5) 5. 100% recovery 0.4 moist, medium bed; 100% recovery Bentonite 35.6 SP 10-100% recovery 11.6 ▽ wet; 100% recovery 0.2 100% recovery 15-**Backfill Materials:** 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

10-

15-

20

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

: Keri Chappell, L.G 2719 : Keri Chappell Reviewed By: Signature:

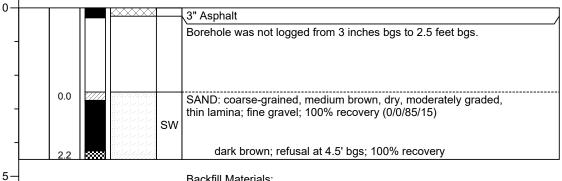
Date Drilled: : 10/13/20

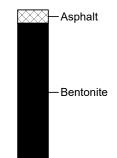
Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 4.5' bgs First GW Depth: : N/A

0.9				1	Status			•
						Sample Condition	Water Levels	
						No Recovery	▼ After Completion	on
						Sampled Interval	During Drilling	
_	nut					Described Sample		
ת (ft)	Cor	ا □(گ	ple	Ę	S	Preserved Sample		
Depth (ft)	Blow	OVM, (ppm)	Samp	Colun	USCS	DESCRIPTION (%c	lay/silt/sand/gra	ivel)





Boring: EB18

Backfill Materials:

0.2 50-lb. bag of Asphalt



(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Loubage !

Date Drilled: : 10/13/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : N/A

Sample Condition Water Levels ▼ After Completion No Recovery Sampled Interval During Drilling Boring: EB19 **Described Sample Blow Count** OVM/PID (ppmv) Depth (ft) Preserved Sample Sample Column **USCS** DESCRIPTION (%clay/silt/sand/gravel) 0 3" Asphalt -Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs. 7.0 SAND: coarse-grained, gray, damp, rounded, poorly graded, thin bed; 100% recovery (0/0/100/0) 5 100% recovery 95.7 SP 100% recovery Bentonite 77.2 10-0.6 PEAT: reduced organics РΤ SAND: coarse-grained, gray, damp, poorly graded; thin bed, trace 0.4 wood debris; 100% recovery (0/0/100/0) SP 100% recovery 15 **Backfill Materials:** 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Louchappell

Date Drilled: : 10/13/20
Drilling Co.: : Holocene

Orilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

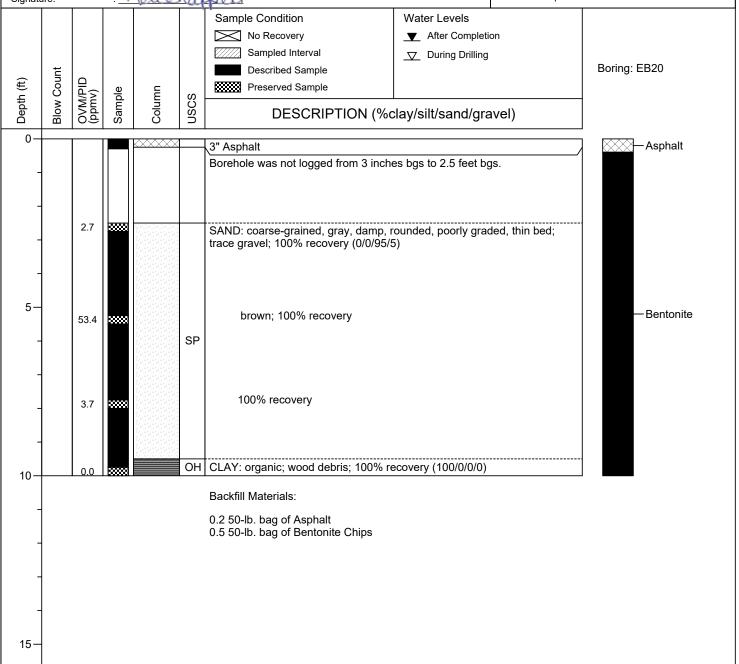
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 10' bgs

First GW Depth: : N/A





(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Lower Chappell

Date Drilled: : 10/13/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

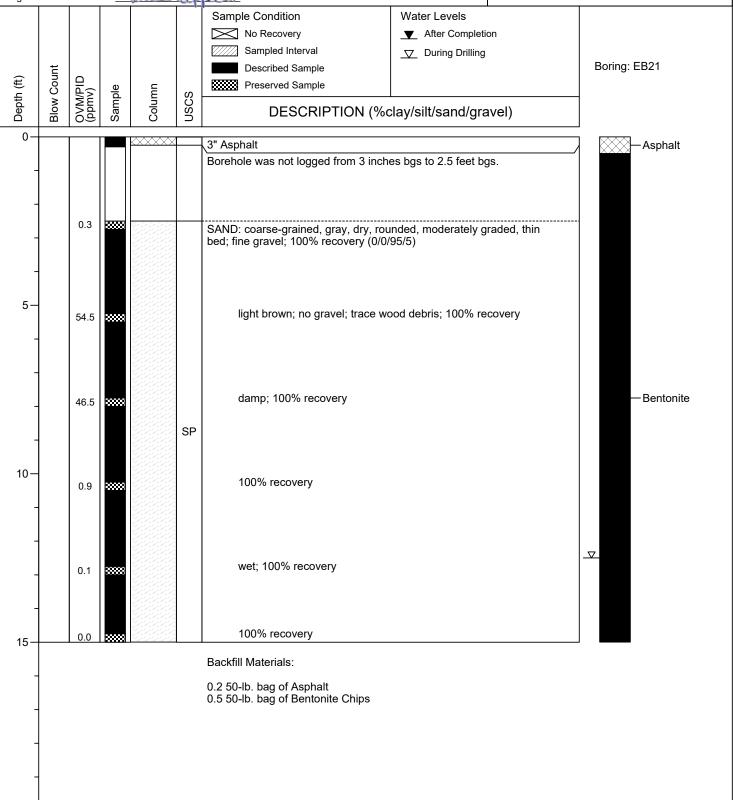
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : 12.5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

SP

Logged By: : Brett McLees

0.0

5

10-

15-

20

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchappell

Date Drilled: : 10/13/20

Drilling Co.: : Holocene Drilling, Inc.

-Bentonite

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

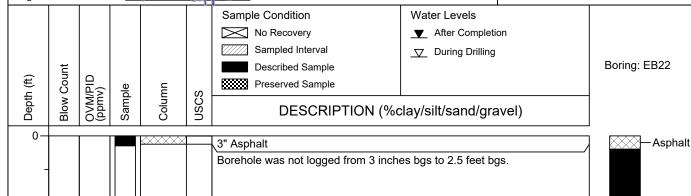
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 5' bgs

First GW Depth: : N/A



SAND: coarse-grained, brown, damp, rounded, poorly graded, lamina;



0.2 50-lb. bag of Asphalt

100% recovery (0/0/100/0)

0.5 50-lb. bag of Bentonite Chips

Refusal at 5' bgs; 100% recovery



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luch Good

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : N/A

Signatu	ıre:		7	reul	raf	pell		First GW Depth:	: N/A
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	Water Levels ▼ After Completion □ During Drilling Clay/silt/sand/gra		Boring: EB23
0-				KXXXX		— Asphalt			
-						3" Asphalt Borehole was not logged from 3 inch	es bgs to 2.5 feet bg	js.	XXXX
-		0.0	****			SAND: coarse-grained, light gray, dry medium bed; trace gravel; 100% reco	y, rounded, poorly gr overy (0/0/95/5)	aded,	
5- -		0.0	2000			100% recovery			
-		0.4	****		SP	100% recovery			— Bentonite
10-		27.0	30000			100% recovery			
-		0.6	****			100% recovery			
15-		0.0				100% recovery			
						Backfill Materials:			
-						0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips			
20-									



(Page 1 of 1)

Project No.: : 031447

20-

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Learning Sign

Date Drilled: : 10/13/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 15' bgs

 First GW Depth:
 : 12.5' bgs

Signatu	re:		1	lauce	nay	peu		First GW Deptil.	. 12.5 bgs
Depth (ft)	Blow Count	OVM/PID (ppmv) Sample Column USCS				Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample	ion	Boring: EB24	
ď	Bi	Qg	Sa	ပိ	S)	DESCRIPTION (%d	ciay/siit/sand/gra	avei)	
0					1	3" Asphalt			Asphalt
-						Borehole was not logged from 3 inch	es bgs to 2.5 feet bo	gs.	Азрнан
- - -		0.0	****			SAND: coarse-grained, gray, damp, r 100% recovery (0/0/100/0)	rounded, poorly grad	ded, thin bed;	
5-		2.7	2000			brown; 100% recovery			
-		46.0	*****		SP	100% recovery			— Bentonite
10-		33.4	3000			100% recovery			
-		0.2	38888			wet; 100% recovery			
15—		0.0		0 4 0 4 0 4 0 4 0 4 0 0 4 0 4 0 4 0 4 0		100% recovery			
.						Backfill Materials:			
_						0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips			
-									



(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchapell

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

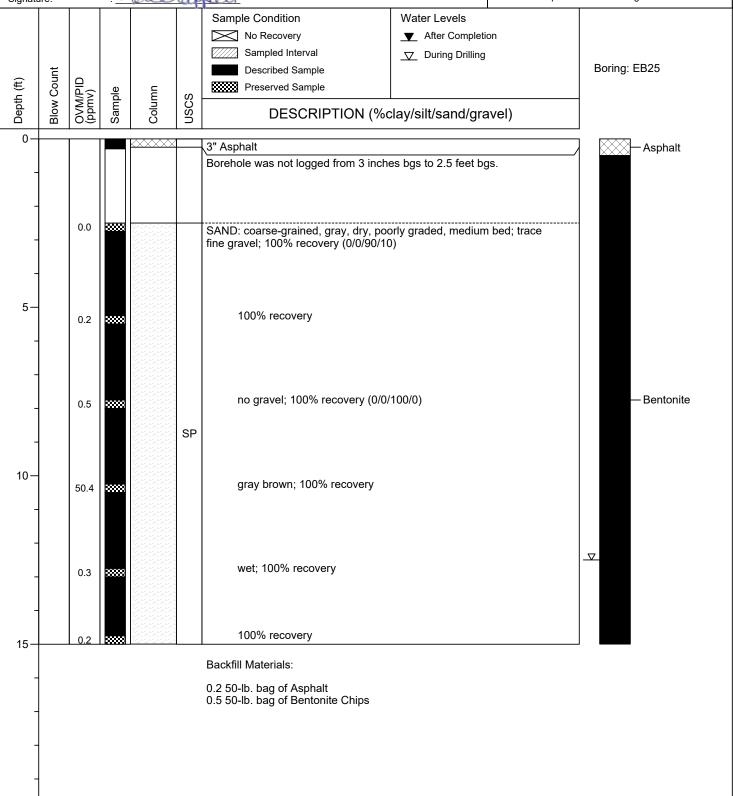
 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 15' bgs

 First GW Depth:
 : 12.5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : 10' bgs

Signatu	ire:		-1	will be	a	peu		First GW Deptil.	. 10 bgs
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%co	Water Levels ▼ After Complet ▽ During Drilling		Boring: EB26
	ш	05	0)			`		,	J
0-						5" Asphalt			— Asphalt
-						Borehole was not logged from 5 inche	es bgs to 2.5 feet b	gs.	
-		0.0	3333			SAND: coarse-grained, gray, dry, rou trace fine gravel; 100% recovery (0/0	inded, poorly grade /95/5)	d, thin bed;	
5-		6.6				100% recovery			
-			$\left \right $		SP	No recovery			— Bentonite
10-		85.7	****			wet; 100% recovery (0/0/95/5)			
-		0.8	38888			no gravel; 100% recovery (0/0/	(100/0)		
15				Badadadadad Rasananasas		100% recovery			
						Backfill Materials:			
						0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips			
-									
20 —									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchappell

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

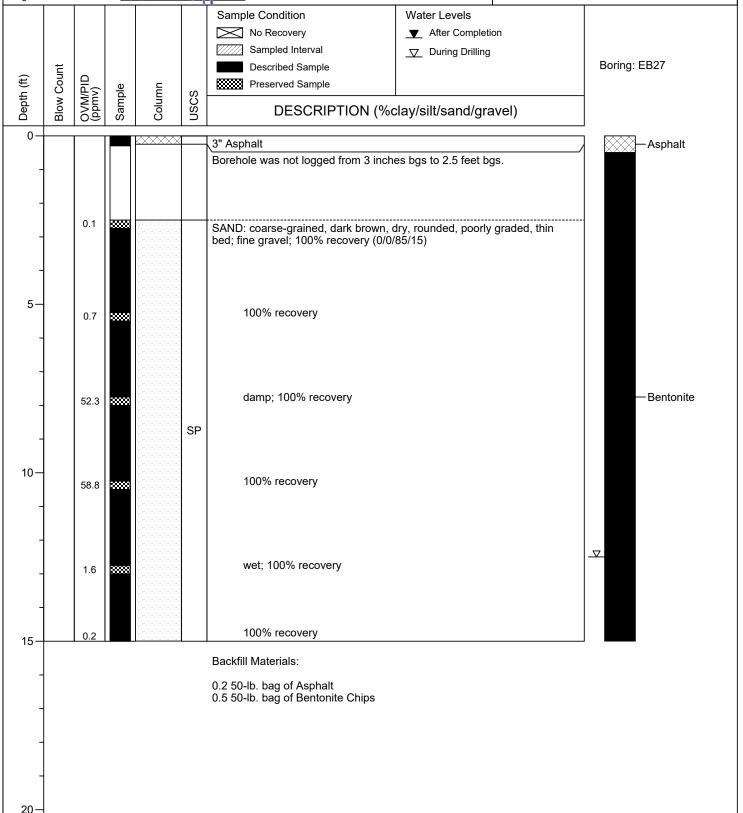
 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 15' bgs

 First GW Depth:
 : 12.5' bgs





(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

15-

20

Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

Date Drilled: : 10/14/20

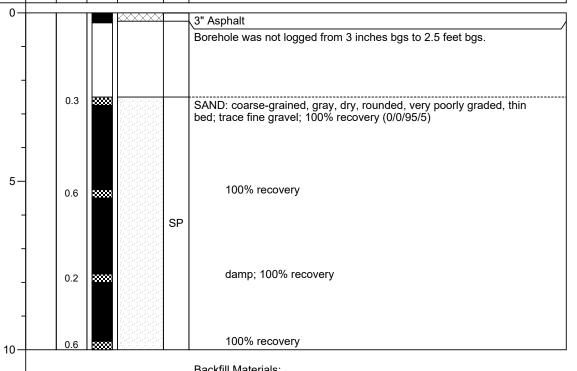
Drilling Co.: : Holocene Drilling, Inc.

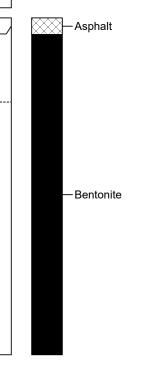
Boring: EB28

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs First GW Depth: : N/A

Sample Condition Water Levels ▼ After Completion No Recovery Sampled Interval □ During Drilling **Described Sample Blow Count** Depth (ft) OVM/PID (ppmv) Preserved Sample Sample Column **USCS** DESCRIPTION (%clay/silt/sand/gravel) 3" Asphalt





Backfill Materials:

0.2 50-lb. bag of Asphalt



(Page 1 of 1)

Project No.: : 031447

5

10-

15-

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : :

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

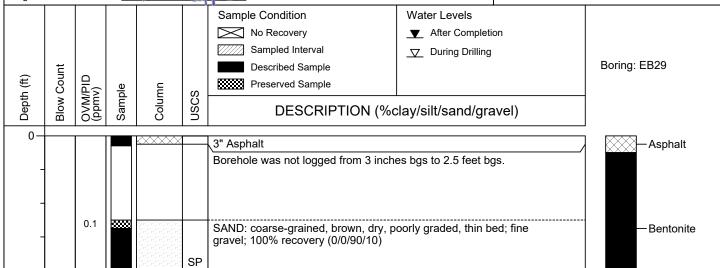
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 5' bgs

First GW Depth: : N/A



Backfill Materials:

0.2 50-lb. bag of Asphalt

0.5 50-lb. bag of Bentonite Chips

refusal at 5' bgs; 100% recovery



(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Brett McLees

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchapell

Date Drilled: : 10/14/20

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

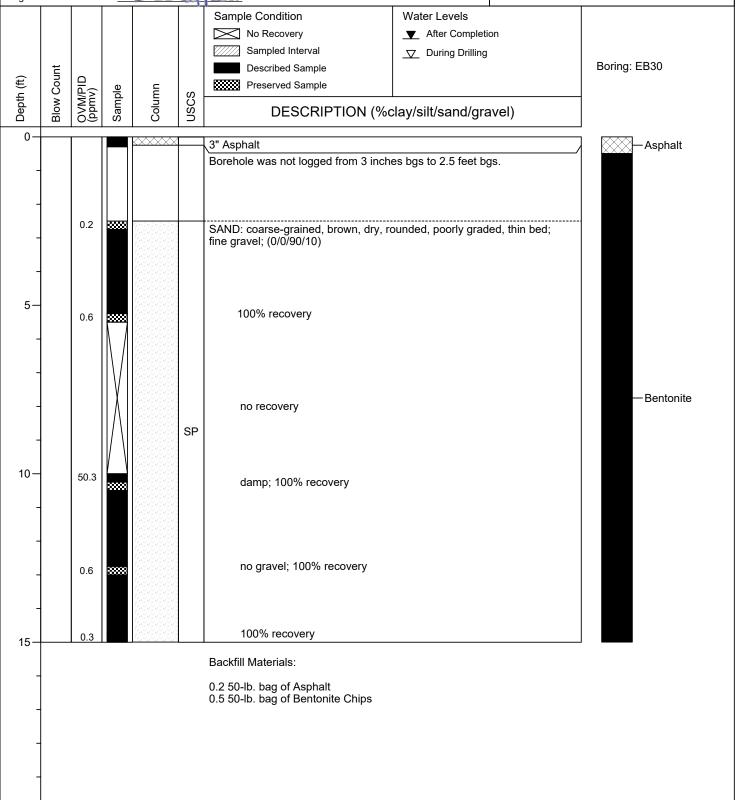
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : N/A





(Page 1 of 1)

Project No.: : 031447

15-

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By:

Reviewed By: : Keri Chappell, L.G. 2719 Keulhapsell Signature:

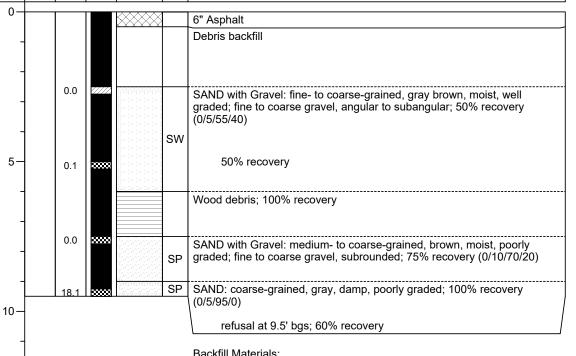
Date Drilled: : 01/25/21

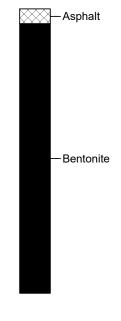
Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A : N/A Longitude Total Depth: : 9.5' bgs First GW Depth: : N/A

Signati	ire:		-1	<u>eus</u>	ar	reco		Thist OW Beptil.
						Sample Condition	Water Levels	
						No Recovery	▼ After Completi	on
						Sampled Interval	□ During Drilling	
_	ru m					Described Sample		
(E)	Co	[원(<u>e</u>	E		Preserved Sample		
Depth (ft)	Blow	OVM/P (ppmv)	Sample	Column	nscs	DESCRIPTION (%c	lay/silt/sand/gra	avel)
0-								
						6" Asphalt		
_						Debris backfill		





Boring: EB31

Backfill Materials:

0.2 50-lb. bag of Asphalt



BORING LOG EB31A

(Page 1 of 1)

Project No.: : 031447

20

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

: Keri Chappell, L.G. 2719 Reviewed By: Signature:

Date Drilled: : 01/27/21

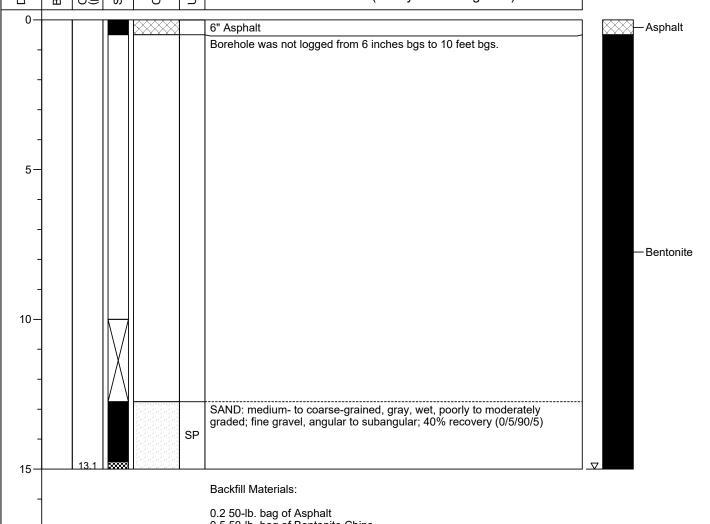
Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs First GW Depth: : 15' bgs

Water Levels Sample Condition ▼ After Completion No Recovery Sampled Interval During Drilling Boring: EB31A **Described Sample Blow Count** Depth (ft) OVM/PID (ppmv) Preserved Sample Column Sample **USCS**

DESCRIPTION (%clay/silt/sand/gravel)





BORING LOG EB31B

(Page 1 of 1)

Date Drilled: : 01/27/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 20' bgs

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

: Keri Chappell, L.G. 2719 Reviewed By:

First GW Depth: : 17.5' bgs Signature: Sample Condition Water Levels ▼ After Completion No Recovery Sampled Interval □ During Drilling Boring: EB31B **Described Sample Blow Count** Depth (ft) OVM/PID (ppmv) Preserved Sample Sample Column **USCS** DESCRIPTION (%clay/silt/sand/gravel) 0 6" Asphalt -Asphalt Borehole was not logged from 6 inches bgs to 17.5 feet bgs. 5 10 -Bentonite 15 0.4 SAND: medium- to coarse-grained, gray to dark gray, wet, poorly graded; fine gravel, subangular; 100% recovery (0/5/90/5) SP 20 CLAY: gray brown, moist, high plasticity; trace fine sand; 100% recovery (95/0/5/0) Backfill Materials: 0.2 50-lb. bag of Asphalt



(Page 1 of 1)

Project No.: : 031447

20

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

: Keri Chappell, L.G. 2719 : Keri Chappell Reviewed By: Signature:

Date Drilled: : 01/25/21

Drilling Co.: : Holocene Drilling, Inc.

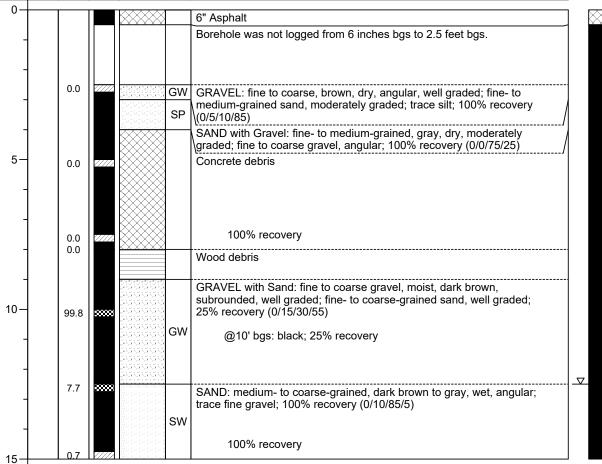
Asphalt

Bentonite

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs First GW Depth: : 12.5' bgs

Olgitate	iic.				YUL-	Tees.		•	- 3
						Sample Condition	Water Levels		
						No Recovery	▼ After Completi	on	
						Sampled Interval	□ During Drilling		
	Ħ					Described Sample			Boring: EB32
ר (ת)	Count	V)	ple	uu	S	Preserved Sample			
Depth	Blow	(ppm)	Samp	Colur	SSN	DESCRIPTION (%c	lay/silt/sand/gra	ıvel)	
0-									
"						6" Asphalt			│ │ │ │ │



Backfill Materials:

0.2 50-lb. bag of Asphalt



BORING LOG EB32A

(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luch Level L.G. 2719

Date Drilled: : 01/27/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 20' bgs

 First GW Depth:
 : 10.5' bgs

Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling Boring: EB32A **Described Sample Blow Count** OVM/PID (ppmv) Depth (ft) Preserved Sample Column Sample USCS DESCRIPTION (%clay/silt/sand/gravel) 0 6" Asphalt Asphalt GRAVEL: fine to coarse, brown, dry, well graded, angular; fine- to medium-grained sand, moderately graded; trace silt; 100% recovery GW (0/5/10/85) SAND: fine- to medium-grained, gray, dry, moderately graded; fine to SP coarse gravel, angular; 100% recovery Concrete debris Silty SAND: fine- to medium-grained, brown, moist, moderately graded; 5 0.3 trace fine gravel, angular, poorly graded; concrete debris present; 80% recovery (0/30/65/5) 0.6 SAND with Gravel: fine- to coarse-grained, brown, damp, well graded; fine to coarse gravel, angular, well graded; 40% recovery (0/5/65/30) SW 10 dark brown; 80% recovery (0/15/55/30) 52.2 -Bentonite ∇ SAND: medium- to coarse-grained, gray, wet, poorly graded; trace fine gravel; 100% recovery (0/5/90/5) SP Silty SAND: medium- to coarse-grained, dark brown to olive brown, wet; trace fine gravel; 100% recovery (0/15/80/5) SM @13.5' bgs: gray 1.7 50000 15 SAND: medium- to coarse-grained, gray, wet; trace fine gravel; 100% recovery (0/5/90/5) SP 100% recovery 0.7 100% recovery 20 **Backfill Materials:**

0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchappell

Date Drilled: : 01/25/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

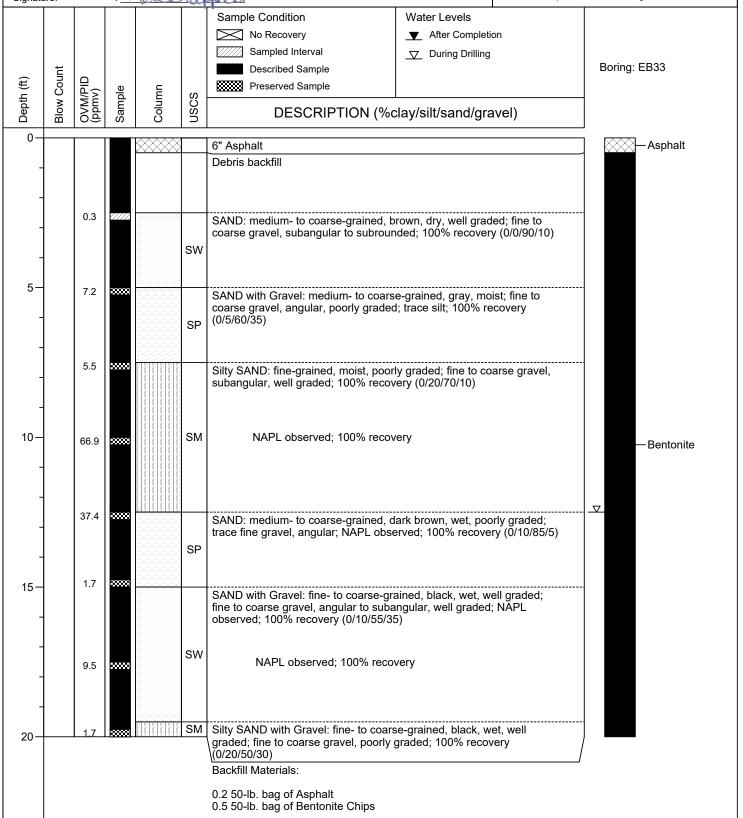
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 20' bgs

First GW Depth: : 12.5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Loubapell

Date Drilled: : 01/25/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

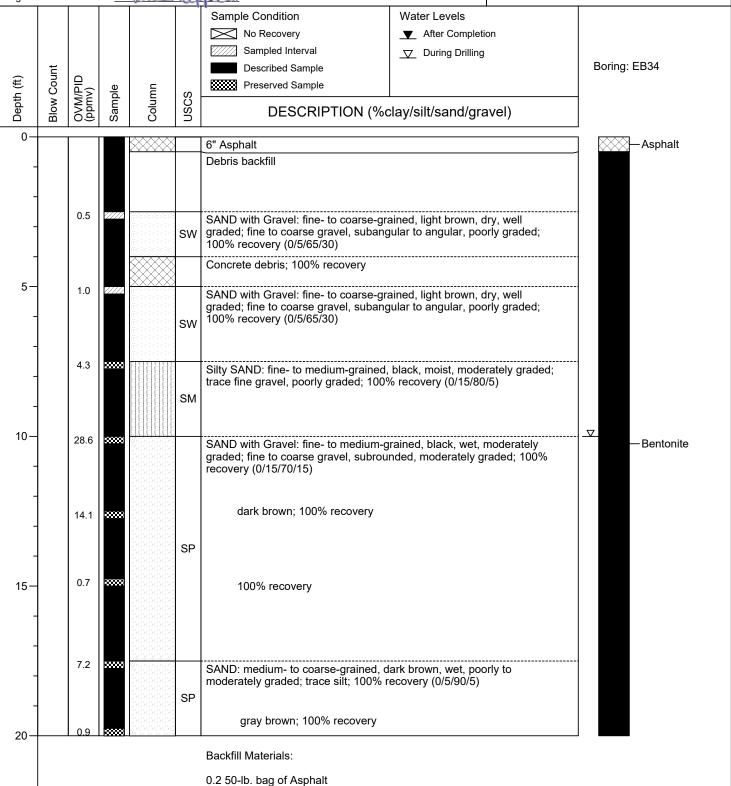
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 20' bgs

First GW Depth: : 10' bgs



0.5 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Local Chappell

Date Drilled: : 01/25/21

Drilling Co.: : Holocene Drilling, Inc.

Boring: EB35

Asphalt

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

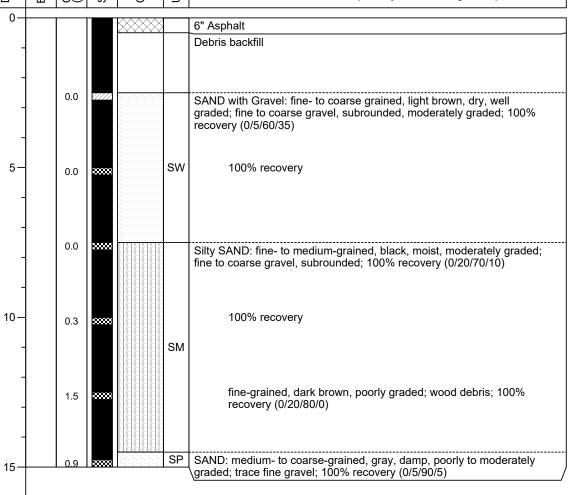
Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : N/A

						Sample Condition	Water Levels
						No Recovery	_ ▼ After Completion
						Sampled Interval	During Drilling
_	l ≝	_				Described Sample	
(#)	05	[[[ble	딭	S	Preserved Sample	
Depth	Blow	OVM,	Samp	Column	USCS	DESCRIPTION (%d	clay/silt/sand/gravel)
0		•		•			



— Bentonite

Backfill Materials:

0.2 50-lb. bag of Asphalt

0.5 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Louchapell

Date Drilled: : 01/26/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 15' bgs

 First GW Depth:
 : 8.5' bgs

Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling Boring: EB36 **Described Sample Blow Count** OVM/PID (ppmv) Depth (ft) Preserved Sample Column Sample **USCS** DESCRIPTION (%clay/silt/sand/gravel) 6" Asphalt Ashpalt SAND: fine- to medium-grained, gray, dry, poorly graded; (0/5/95/0) 100% recovery 0.0 SP 5 100% recovery 0.4 100% recvoery 0.3 30000 Bentonite Wood debris, wet ∇ Silty SAND: fine- to coarse-grained, gray to dark gray, wet, well graded; trace fine gravel, subrounded; 100% recovery (0/15/80/5) 10-1.0 SW 0.3 SAND: medium- to coarse-grained, gray, wet, poorly graded; trace fine gravel, angular; 100% recovery (0/5/90/5) SP Wood debris, 3" layer SP SAND: medium- to coarse-grained, gray, wet, poorly graded; trace 15 fine gravel, angular; 100% recovery (0/5/90/5) **Backfill Materials:** 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips 20



(Page 1 of 1)

Project No.: : 031447

20-

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchapell

Date Drilled: : 01/27/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : 10' bgs

Signatu	ire:		- 7	elle	ale	peu		Tillat GVV Deptil.	. 10 bgs
						Sample Condition	Water Levels		
						No Recovery	▼ After Completion	on	
						Sampled Interval			
	.					Described Sample	□ During Drilling		Boring: EB37
🚅	ш	Ω							Bonnig. LBor
, E	ŏ	<u></u> ₹.	ble	<u> </u>	က္သ	Preserved Sample			_
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	DESCRIPTION (%c	lay/silt/sand/gra	avel)	
	ш_	00			,	J			
0-						— Asphalt			
						Borehole was not logged from 6 inche	es bgs to 2.5 feet bo	gs.	
-									
		0.0	7777			SAND: medium- to coarse-grained, g	rou moiot to dru no	orly graded:	
-						100% recovery (0/5/95/0)	ray, moist to dry, po	ony graded,	
				bydydydydyd bydydydydyd		, (,			
				Dredredredredred Dredredredredred					
					SP	dadabaaaaa 4000/ (0	ME (05 (0)		
5-		0.5	833333	0740740740740740 0740740740740740		dark brown; 100% recovery (0	/15/85/0)		
-				Dellelelelelel Syrtystystystys					
		0.2				Wood debris		4000/	— Bentonite
-						SAND: fine- to coarse-grained, gray, recovery (0/5/95/0)	damp, well graded;	100%	— Beritonite
						leastery (dieleare)			
-									
10						t. 1000/			_ ▽
10-		0.2	500000	Se se se se se se Se se se se se se s		wet; 100% recovery			
				Septembered Septemberede					
				Se se se se se se Se se se se se se s	SW				
-				je ie ie ie ie ie je ie ie ie ie ie i					
		0.3	30000	ige de de de de d Gende de de de de d		100% recovery			
-									
						4000/			
15		0.2	////			100% recovery			
						D. I SILM I I			
						Backfill Materials:			
						0.2 50-lb. bag of Asphalt			
-						0.5 50-lb. bag of Bentonite Chips			
-									
1 7									



(Page 1 of 1)

Project No.: : 031447

20-

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : :

Date Drilled: : 01/27/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : N/A

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%clay/silt/sand/grad	Boring: EB38
0-				<u> </u>	1	6" Asphalt	——————————————————————————————————————
_				XXXXXX		Borehole was not logged from 6 inches bgs to 2.5 feet bg	
-		2.7	<i>(////</i> .	OS CROPOROS CROPO CRACIROS CROPO CRACIROS CROPO CRACIROS CROPO CRACIROS CROPO CRACIROS CROPO CRACIROS CRACIROS CRACIROS CRACIROS CRACIROS CRACIROS CRACIROS CRACIROS		SAND: medium- to coarse-grained, gray, dry to damp, po 100% recovery (0/5/95/0)	oorly graded;
5-		1.0	****			100% recovery	
-		0.5	50000		SP	dark gray; 100% recovery	— Bentonite
10-		0.3	55555			black and dark gray; organics and plant material 100% recovery (0/10/90/0)	present;
_		0.2	80000			gray to dark gray; no organics and plant material recovery	; 100%
15—		6.9	20000		SP	Wood debris, 2" layer SAND: medium- to coarse-grained, gray to dark gray, dry poorly graded; 100% recovery (0/10/90/0)	to damp,
-						Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips	



(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Site:

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Lucha Boot

Date Drilled: : 01/27/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 20' bgs

First GW Depth: : N/A

Signatu	ıre:		+	rene	har	pell		First GW Depth:	: N/A
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%c	Water Levels ▼ After Completi ▽ During Drilling clay/silt/sand/gra		Boring: EB39
0-					1	6" Asphalt			- Asphalt
-						Borehole was not logged from 6 inch	es bgs to 2.5 feet bo	gs.	Aspiran
		4.2	****			Concrete debris			
					SP	SAND: medium- to coarse-grained, b 100% recovery (0/5/95/0)	rown, dry to damp,	poorly graded;	
						Wood debris, 2" layer		/	
5-		12.7	****			SAND: medium- to coarse-grained, g 100% recovery (0/10/90/0)	ray, dry to damp, po	porly graded;	
-		8.4			SP	dark gray, organic material pr	esent; 100% recove	ery	
1				116		Wood debris with brown clay, mediur	n plasticity; 100% re	ecovery	
10-		3.7	50000		SP	SAND: medium- to coarse-grained, d graded; 100% recovery (0/10/90/0)	ark gray, dry to dan	np, poorly	— Bentonite
		4.0	00000						
-		4.2	****			Wood debris with dark brown clay, m	edium plasticity; 10	0% recovery	
- 15 <i>-</i> -		10.1	2000			SAND: medium- to coarse-grained, g 100% recovery (0/10/90/0) dark gray; 100% recovery	ray, dry to damp, po	oorly graded;	
-		0.7	(////)		SP	100% recovery			
20—		17.5		May have been seen as a se	SP	Wood debris with brown clay, mediur coarse-grained sand; 100% recovery SAND: medium- to coarse-grained, d graded; 100% recovery (0/10/90/0) Backfill Materials:			
						0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips			



(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By:

Site:

: Keri Chappell, L.G. 2719 : You Chappell Reviewed By: Signature:

Date Drilled: : 01/26/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs First GW Depth: : 7.5' bgs

Signatu	ire:		1	auco	rap	<u>peu</u>		Filst GW Deptil.	. 7.5 bgs
						Sample Condition	Water Levels		
						No Recovery	▼ After Completion	on	
						Sampled Interval	□ During Drilling		
	Ħ					Described Sample			Boring: EB40
Œ.	Sou	₽(Φ	⊑		Preserved Sample			
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	DESCRIPTION (%c			
0-					1] [5555]
					<u> </u>	6" Asphalt	rell arreded array lear	· fine to	— Asphalt
-						GRAVEL with Sand: fine to coarse, w coarse grained sand, brown, dry, well	graded; 70% reco	ery	
						(0/5/25/70)		•	
1		0.0	////		GW				
-		0.2							
-						SAND: medium- to coarse-grained, g	ray, moist, poorly gi	 raded; trace	•
5-						fine to coarse gravel; (0/5/90/5)	, , , ,	•	
ı ı		3.0	**************************************			100% recovery			
-				iyayayayaya iyayayayaya	SP	•			
		0.3	******			Silty SAND: fine- to medium-grained,	gray to olive brown	, wet,	— Bentonite
				la in in in in Na in in in in		moderately graded; trace fine to coars (0/25/70/5)	se gravel; 80% reco	overy	
-				Betetetete Betetetete	sw	(6,26,13,6)			
				gelelelele gelelelelele	300				
10 —		0.5	50000			clayey wood debris and plant ro	oots; 100% recover	у	
						CLAY: blue gray; 100% recovery (100	0/0/0/0)		
-					CL				
		0.4	88888			Wood debris; 100% recovery			
1				***					
4				Ramumumumum Dindrokathokath Najetanajetan		SAND: medium- to coarse-grained, data trace fine gravel; (0/5/90/5)	ark gray, wet, poorl	y graded;	
				liyanyanyanya liyanyanyanya	SP	,			
15		0.0	<i>V////</i>	Paragraphy (1)	1	100% recovery			
						Backfill Materials:			
-						0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips			
1									
20 —									



(Page 1 of 1)

Project No.: : 031447

15

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

: Keri Cḥappell, L.G. 2719 : Hou Chappell Reviewed By: Signature:

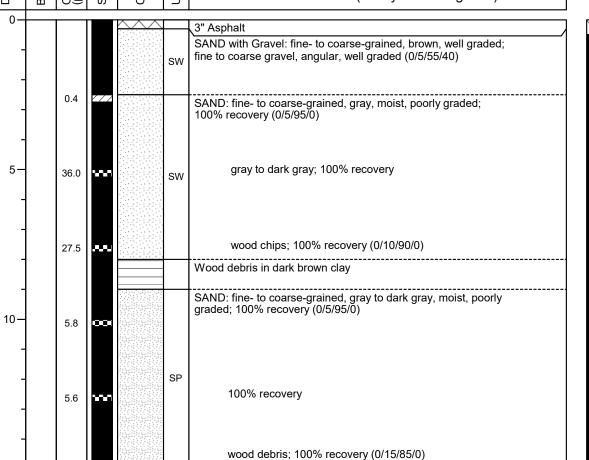
Date Drilled: : 01/27/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs First GW Depth: : N/A

						Sample Condition	Water Levels		
						No Recovery	▼ After Completion	on	
						Sampled Interval	During Drilling		
	ţ					Described Sample			Boring: EB41
£	Count	d d()	<u>e</u>	Ę	S	Preserved Sample			
Depth (ft)	Blow	OVM/PID (ppmv)	Sample	Column	SOSN	DESCRIPTION (%d	clay/silt/sand/gra	vel)	
0-									
						3" Asphalt			Asphalt —
-					SW	SAND with Gravel: fine- to coarse-grafine to coarse gravel, angular, well gr		raded;	



Bentonite

Backfill Materials:

0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

20

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719 Date Drilled: : 01/26/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs

First GW Depth: : 10' bgs Keulhappell Signature: Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling Boring: SB1 **Described Sample Blow Count** OVM/PID (ppmv) Depth (ft) Preserved Sample Column Sample **USCS** DESCRIPTION (%clay/silt/sand/gravel) 0 3" Asphalt Asphalt Debris backfill SAND with Gravel: fine- to coarse-grained, dark brown, moist, well 0.6 graded; fine to coarse gravel, subrounded, well graded; 100% recovery (0/15/45/40) SW light brown, trace cobbles; 100% recovery 5 0.1 0.4 Silty SAND with Gravel: fine- to coarse-grained, dark brown, moist, Bentonite well graded; fine gravel to cobbles, subrounded, well graded; 50% recovery (0/20/40/40) ∇ 10-SM fine- to medium-grained, gray/brown, wet; fine to coarse gravel, 0.2 subrounded and subangular; 50% recovery (0/25/40/35) 15.0 SAND with Gravel: fine- to coarse-grained, brown, wet, well graded; fine to coarse gravel, subangular and some subrounded; 100% recovery (0/10/60/30) SW medium- to coarse-grained, gray; fine to coarse gravel, poorly graded, subangular; 100% recovery (0/0/75/25) 15 **Backfill Materials:** 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

20

Reviewed By: : Keri Chappell, L.G. 2719 Date Drilled: : 01/26/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs

First GW Depth: : 12.5' bgs Heulhappell Signature: Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling Described Sample Boring: SB2 **Blow Count** OVM/PID (ppmv) Depth (ft) Preserved Sample Column Sample **USCS** DESCRIPTION (%clay/silt/sand/gravel) 0 5" Asphalt Asphalt Debris backfill 0.0 GRAVEL with Sand: fine to coarse gravel, subangular, well graded; fine- to coarse-grained sand, gray, dry, well graded; 100% recovery (0/5/40/55)GW 5 100% recovery 0.0 0.3 Silty SAND with Gravel: fine- to medium-grained, olive brown, well Bentonite graded; fine to coarse gravel, subrounded, poorly graded; 80% recovery (0/30/40/30) SM 10 0.2 Clayey SAND: fine- to medium-grained, light brown, moist; high plasticity; 100% recovery (50/0/50/0) SC ∇ 0.4 SAND with Gravel: fine- to coarse-grained, black, wet, well graded; fine to coarse gravel, subangular; 100% recovery (0/10/50/40) SW SAND: fine- to medium-grained, gray, wet; trace fine gravel; 100% 15 recovery (0/5/90/5) **Backfill Materials:** 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

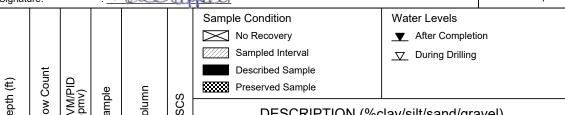
: Keri Chappell, L.G. 2719 Reviewed By: Signature:

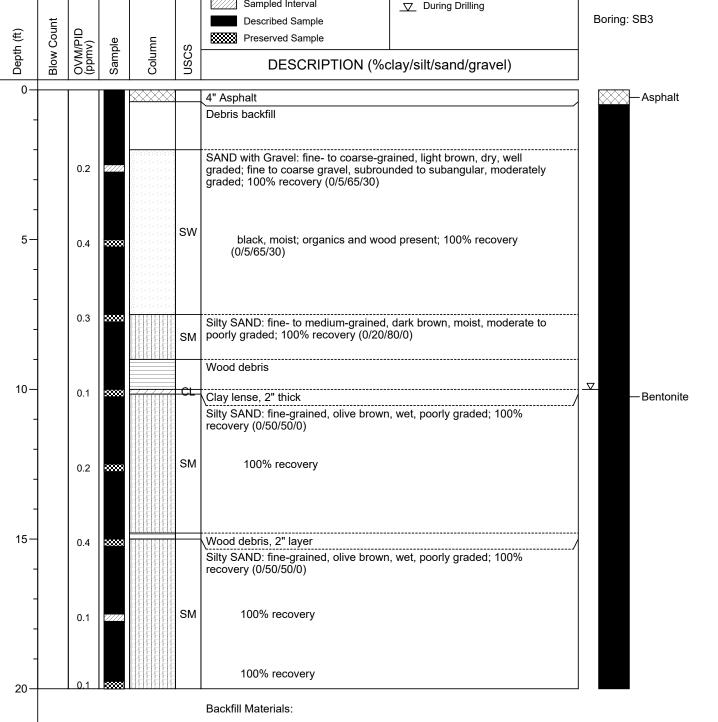
Date Drilled: : 01/26/21

Drilling Co.: : Holocene Drilling, Inc.

: Push Probe Drilling Method: Sampling Method: : Dual Tube

Borehole Diameter: : 3" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 20' bgs First GW Depth: : 10' bgs





0.2 50-lb. bag of Asphalt

0.5 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Lower Chappell

Date Drilled: : 01/25/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

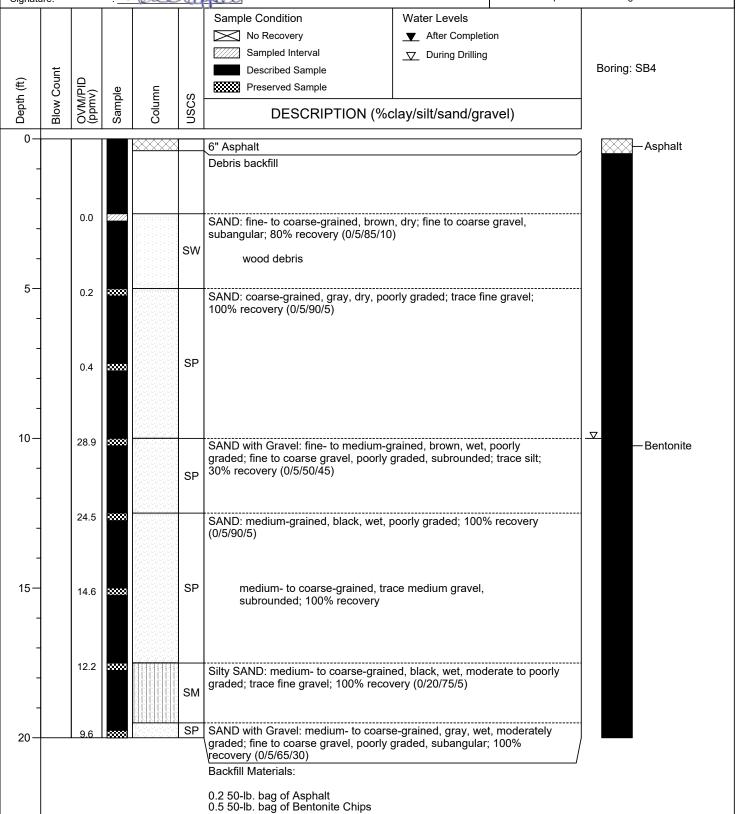
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 20' bgs

First GW Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : :

Date Drilled: : 01/26/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

Borehole Diameter: : 3"

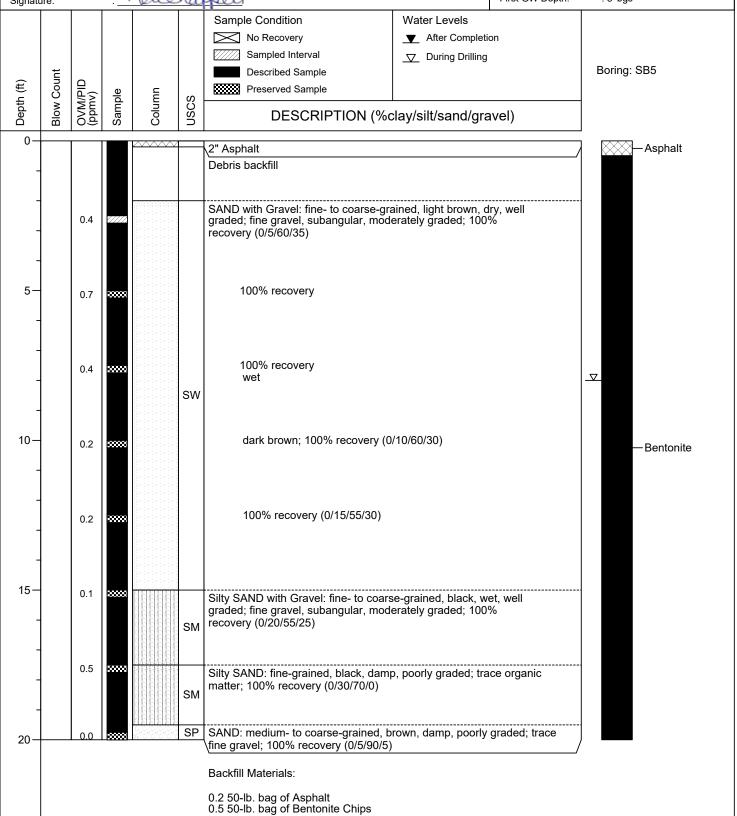
Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 20' bgs

First GW Depth: : 8' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchappell

Date Drilled: : 02/05/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

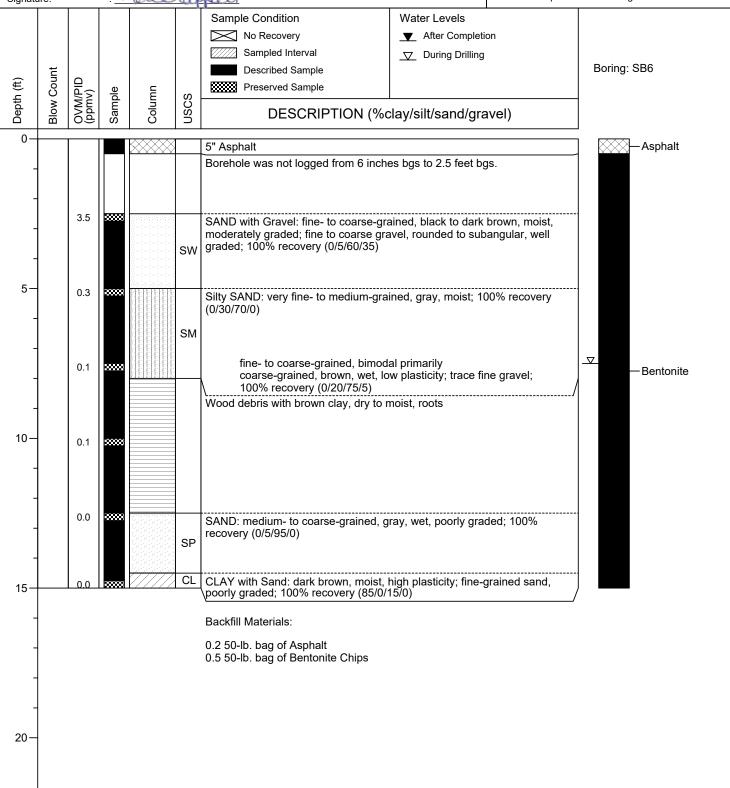
 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 15' bgs

 First GW Depth:
 : 7.5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luckapell

Date Drilled: : 02/05/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : Dual Tube

 Borehole Diameter:
 : 3"

 Casing Diameter:
 : N/A

 Latitude
 : N/A

 Longitude
 : N/A

 Total Depth:
 : 15' bgs

 First GW Depth:
 : 12.5' bgs

Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling Boring: SB7 **Described Sample Blow Count** OVM/PID (ppmv) Depth (ft) Preserved Sample Column Sample USCS DESCRIPTION (%clay/silt/sand/gravel) 5" Asphalt Asphalt Borehole not logged from 5 inches bgs to 2.5 feet bgs. 0.1 SAND with Gravel: fine- to coarse-grained, black to dark brown, moist, moderately graded; fine to coarse gravel, subrounded to subangular, well to moderately graded; 100% recovery (0/5/60/35) SW 5 0.1 SAND: fine- to medium-grained, brown, moist, poorly graded; trace fine gravel; 100% recovery (0/5/90/5) SP 0.0 30000 SAND: fine- to coarse-grained, dark gray, moist, moderately graded; Bentonite SW | 100% recovery (0/5/95/0) Wood debris in brown clay, roots, high plasticity 10-100% recovery 3.4 ∇ 0.2 Clayey SAND: fine- to medium-grained, dark brown, wet, poorly to moderately graded, medium plasticity; decayed plant material present; SC 100% recovery (40/0/60/0) SAND: medium- to coarse-grained, dark gray, wet, poorly to 15 moderately graded; 100% recovery (0/10/90/0) **Backfill Materials:** 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips 20



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Louis August 1997

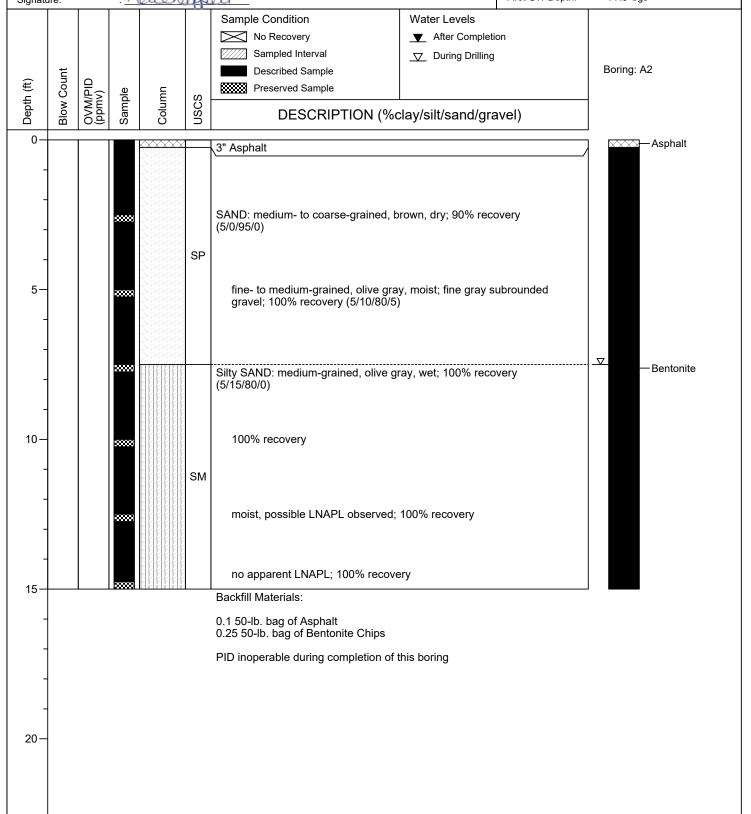
Signature: : Louis August 1997

Reviewed By: : John Considine

Date Drilled: : 08/11/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Luch political control of the control of th

Date Drilled: : 08/11/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Signature	e:		1	reuch	app	ell		First GW Depth:	: 10' bgs
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%C	Water Levels ▼ After Completion □ During Drilling clay/silt/sand/gra		Boring: A4
0		1				2" Acabalt] <u>⊠</u> —Asphalt
-			*****		SP	3" Asphalt SAND: medium- to coarse-grained, b subrounded gravel; 50% recovery (5/	rown, dry; fine gray 10/75/10)		
5					SP	SAND with Gravel: medium- to coars coarse gray subangular gravel; 75% No recovery	e-grained, olive gray recovery (5/10/70/15	/, damp; 5)	— Bentonite
10-					SM	Silty SAND: coarse-grained, olive gra (10/20/70/0)	ıy, wet; 30% recover	y	
15			2000		sc	Clayey SAND: medium-grained, gray wood fibers; 80% recovery (30/10/60,	, damp; red brown c /0)	lay with	
						Backfill Materials:			
1						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
+						PID inoperable during completion of t	this boring		
+									
-									
20-									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Loubaged

Date Drilled: : 08/12/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Signatur	ie.		. 7	leuch,	app			Filst GW Deptil.	. 10 bgs
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	Water Levels ▼ After Completi ▼ During Drilling		Boring: A6
	՝	ဝဓ	Ø	Ö	⊃	DE001(11 11014 (700			
5—					SM	Silty SAND: medium-grained, olive gr 70% recovery (0/20/80/0) medium- to coarse-grained, damp recovery LNAPL observed; 70% recovery fine- to medium-grained, wet, no I (10/40/50/0)	; LNAPL observed;	75%	— Asphalt — Bentonite
15						Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips PID inoperable during completion of	this boring		
20-									



(Page 1 of 1)

Project No.: : 031447

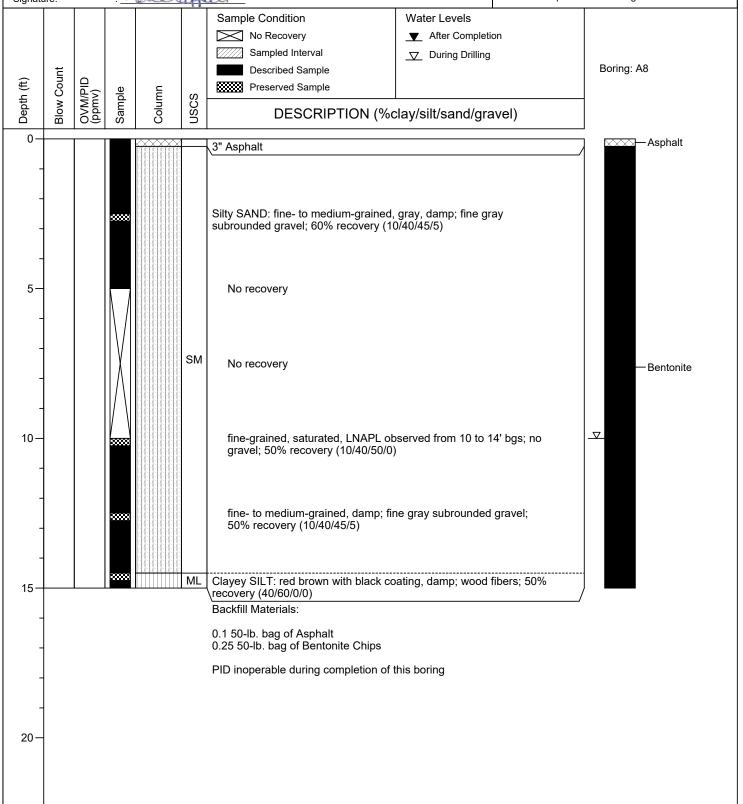
Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Keri Chappell, L.G. 2719

Date Drilled: : 08/16/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A





(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Loube pour

Date Drilled: : 08/11/21

Drilling Co.: : Holocene Drilling, Inc.
Drilling Method: : Push Probe
Sampling Method: : M5 liners

Borehole Diameter: : 2.5"

Casing Diameter: : N/A

Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : 10' bgs

Sample Condition

No Recovery

Sampled Interval

Described Sample

Preserved Sample

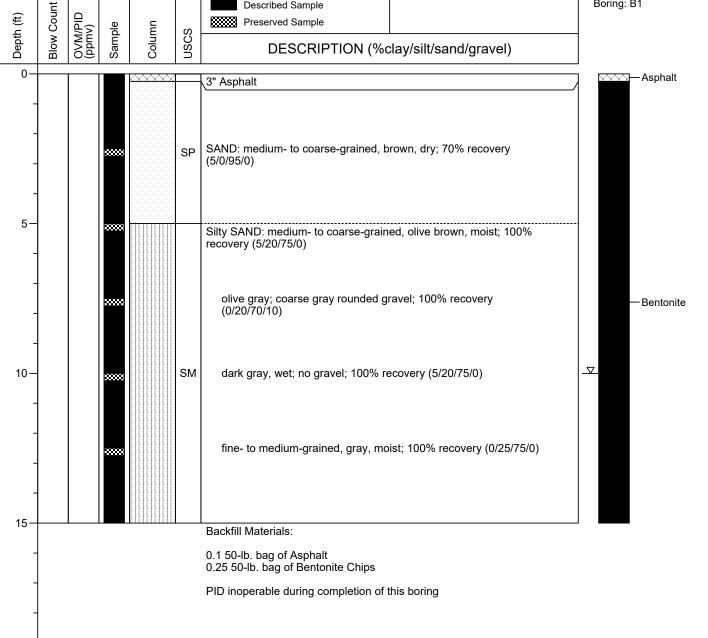
Preserved Sample

Sample Condition

Water Levels

During Drilling

Boring: B1





(Page 1 of 1)

Project No.: : 031447

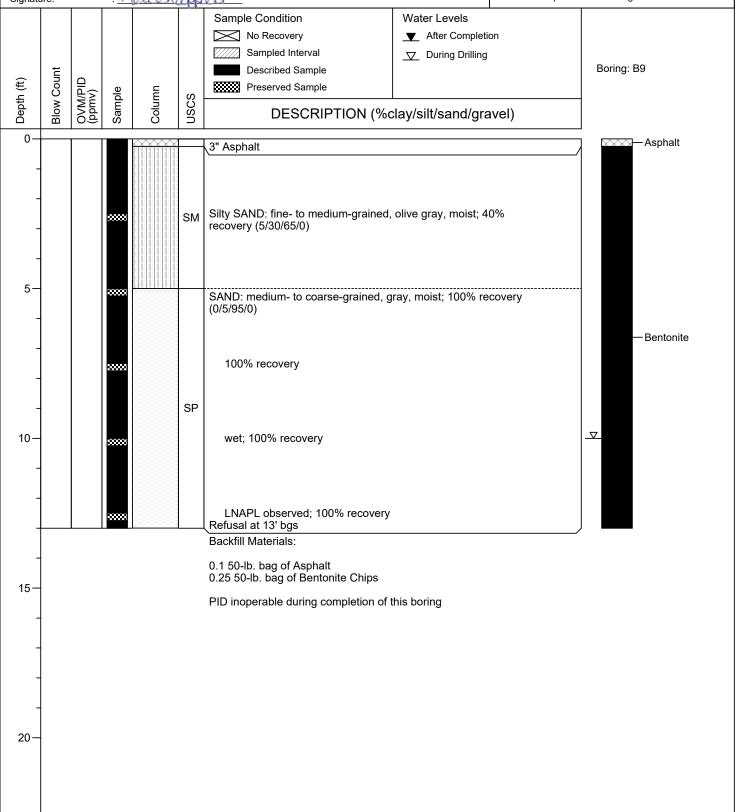
: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Signature: Keulhappell Date Drilled: Drilling Co.:

: Holocene Drilling, Inc.

: 08/12/21

Drilling Method: : Push Probe Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A : N/A





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : How have the

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A

Signatu	ıre:		X	ouch	app	sell		First GW Depth:	: 12.5' bgs
						Sample Condition	Water Levels		
						No Recovery	▼ After Completion	on	
						ZZZ Sampled Interval	□ During Drilling		
	ıt					Described Sample			Boring: C2
Œ	Cou		<u>e</u>	⊑		Preserved Sample			
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	DECODIDEION (0)	1 / '11/ 1/	1)	
å	BIG	QQ	Sa	ပိ	SN	DESCRIPTION (%d	:iay/siit/sand/gra	ivei)	
0-				$\wedge \wedge \wedge$		√3" Asphalt			—Asphalt
5—		0.5	·		GP	GRAVEL: fine to coarse, gray, damp, recovery (0/0/0/100) GRAVEL with Sand: fine to coarse, b gravel, coarse well rounded gravel; fi	lack, moist, well gra	ded, fine angular	
-		23.8			GW	sand; 50% recovery (0/0/20/80) Silty SAND: medium- to coarse-grain			—Bentonite
10-					SM	graded; 50% recovery (0/15/85/0)	,	,	
-		2.1	œ		SP	SAND: medium- to coarse-grained, d moderately graded; 75% recovery (0/		porly to	
-		6.7	~		SM	Silty SAND: medium- to coarse-grain moderately graded; 100% recovery (0	ed, dark brown, moi /15/85/0)	st to wet,	_▽
15						Backfill Materials:			· -
-						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
-									
†									
20									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

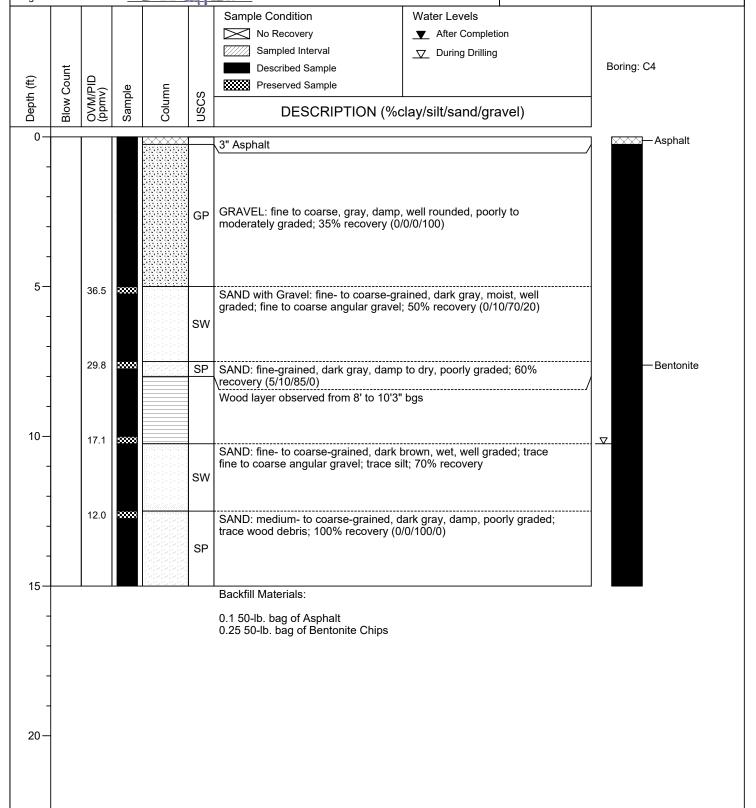
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchappell

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10.25' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Keri Chappell, L.G. 2719

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	SOSU	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%C	Water Levels ▼ After Completion ▽ During Drilling ay/silt/sand/gravel)	Boring: C6
0-		0.6	****		CL	3" Asphalt Sandy CLAY: brown, dry, medium pla poorly graded sand; trace subangular (60/0/35/5)	sticity; fine- to coarse-grained gravel; 100% recovery	Asphalt
5-		0.5	2000 2000		GW	GRAVEL with Sand: fine to coarse, da subrounded, well graded; fine- to coar LNAPL observed from 6 to 9' bgs dark brown, angular to rounded; tra (0/5/25/70)	se-grained well graded sand	— Bentonite
10-		18.2	>>>>		CL	CLAY: dark brown, moist, medium to l trace coarse well rounded gravel (95/0	nigh plasticity; wood material; /0/5)	
- 15—		9.9			GW	GRAVEL with Sand: fine to coarse, br subrounded; fine- to coarse-grained st (0/0/15/85) Backfill Materials:	own, wet, angular to and; 90% recovery	
- - - - 20 —						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips		



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchapell

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Depth (ft)	Blow Count	OVM/PID (pmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	Boring: C8	
		1.1			ML	Sandy SILT: gray, dry to damp; fine-ç subrounded gravel; 70% recovery (0/	rained sand; trace fine 60/40/0)	— Surface soil
5-		2.8	*****		CL	Gravelly CLAY: dark gray, wet, mediu subangular to subrounded gravel; 70	ım plasticity; coarse % recovery (60/0/0/40)	
-		1.6 GW			GW	GRAVEL with Sand: fine to coarse, of to coarse-grained well graded sand; to (0/5/30/65) LNAPL observed from 9 to 10' bgs	— Bentonite	
10-		136.1			SM	Silty SAND with Gravel: fine- to coars well graded; fine angular gravel; 70%	e-grained, dark brown, wet, recovery (0/20/65/15)	
- - 15—		47.1			GW	LNAPL observed at 12.5' bgs GRAVEL with Sand: fine to coarse, d subrounded; fine- to coarse-grained v 75% recovery (0/5/15/80)	ark brown, wet, subangular to vell graded sand; trace silt;	
-						Backfill Materials: Surface completed to match surround 0.25 50-lb. bag of Bentonite Chips	ling soil	
20-								



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

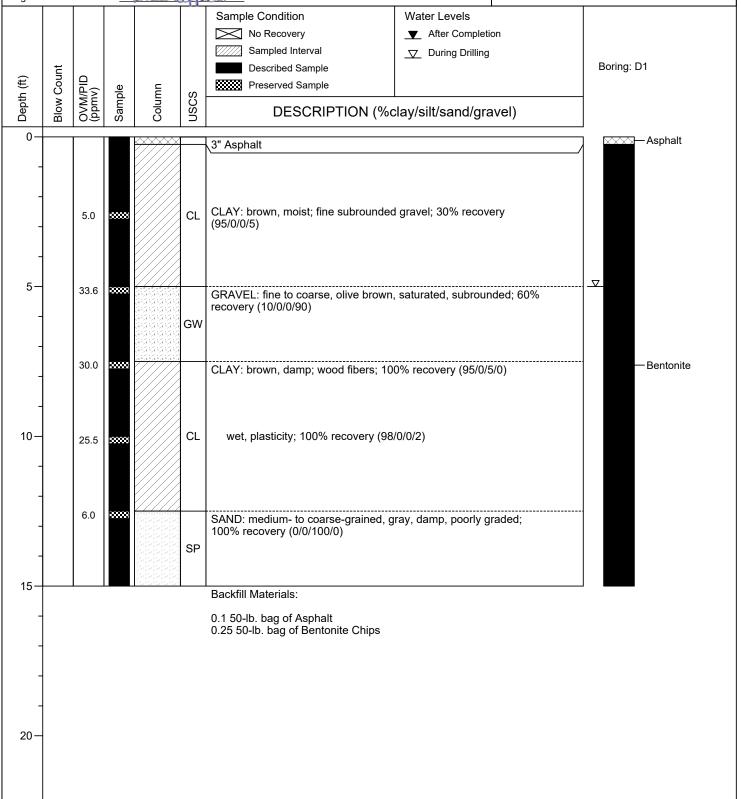
Signature: : Louchapell

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

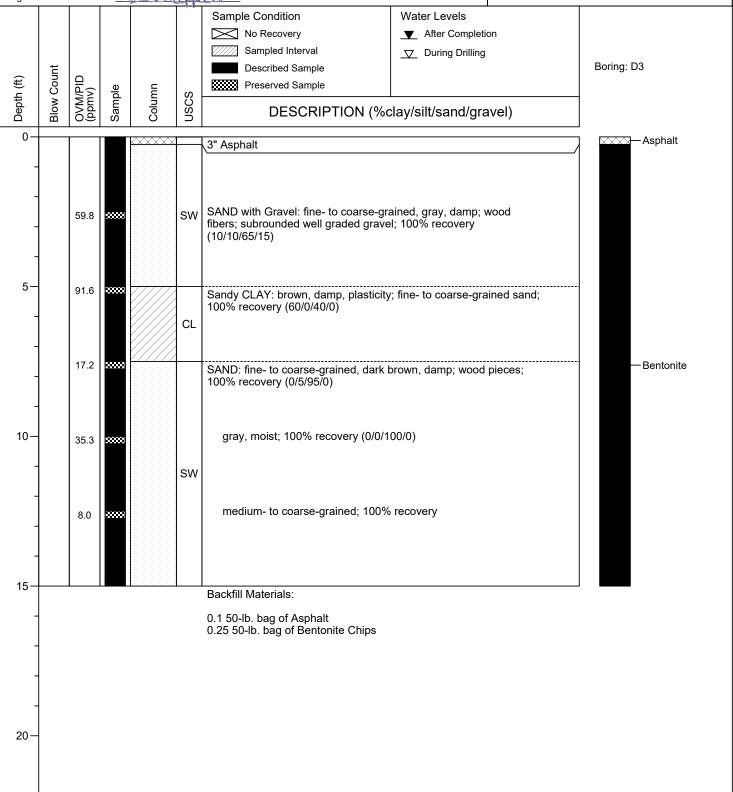
Signature: : Loubhard

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : N/A





(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

Date Drilled: : 08/09/21 Drilling Co.: : Holocene Drilling, Inc.

: Push Probe Drilling Method: Sampling Method: : M5 liners Borehole Diameter: : 2.5"

Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs First GW Depth: : 5' bgs

Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling Boring: D5 Described Sample **Blow Count** OVM/PID (ppmv) Depth (ft) Preserved Sample Column Sample **USCS** DESCRIPTION (%clay/silt/sand/gravel) 0 -Asphalt 3" Asphalt SAND with Gravel: fine- to coarse-grained, gray-brown, damp, well 29.6 graded; fine gray subrounded gravel; trace clay; 50% recovery (5/0/70/25) SW ∇ brown, saturated with LNAPL, moderately graded; trace silt; 5 52.9 no clay; 50% recovery (0/5/80/15) —Bentonite 16.7 30000 CLAY: brown, damp, plasticity; wood fragments and fibers; 65% recovery (100/0/0/0) CL 10-87.0 Gravelly CLAY: brown, damp, plasticity, LNAPL observed; wood fibers; fine to coarse olive brown gravel; 100% recovery (60/0/5/35) CL 15.0 Silty SAND: fine- to coarse-grained, olive-gray, damp; 100% recovery (0/20/80/0) SM 15 **Backfill Materials:** 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips 20



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

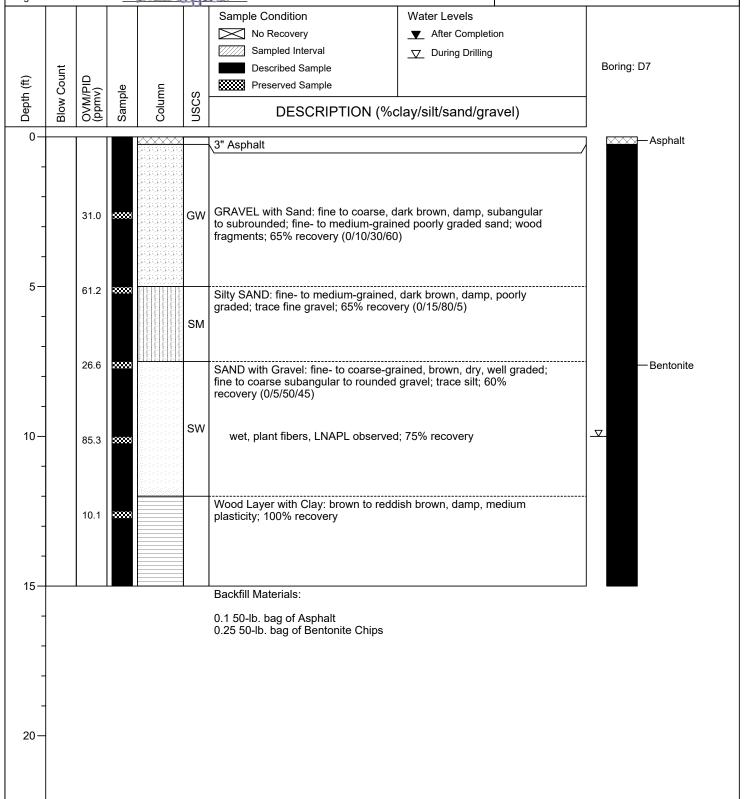
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Loubage U

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luchapell

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 7.5' bgs

Signatu	ıre:		1	auch	app	ell		First GW Deptil.	. 7.5 bgs
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	Water Levels ▼ After Completi ▽ During Drilling clay/silt/sand/gra		Boring: D9
0		1.1	****		SM	Silty SAND with Gravel: fine- to coars graded; fine to coarse angular gravel	se-grained, dry, oliv ; 80% recovery (0/2	e gray, well 5/60/15)	— Surface soil
5- - -		7.0	3333 3		ML	SILT with Sand and Gravel: dark grace coarse-grained poorly graded sand; for trace wood fragments; 80% recovery	ine to coarse angul	dium- to ar gravel;	
- -		330.1	20000		SP	SAND: fine- to medium-grained, very graded; wood fragments and fibers; t (0/5/95/0)	dark brown, wet, p race silt; 75% recov	oorly /ery	. Bentonite
10-		114.8	50000			Wood Layer: black, wet, LNAPL obse	erved		
-		10.2	3000S			red brown, damp; no LNAPL obse recovery	erved; trace sand; 10	00%	
15						Backfill Materials:			
-						Surface completed to match surround 0.25 50-lb. bag of Bentonite Chips	ding soil		
20-									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

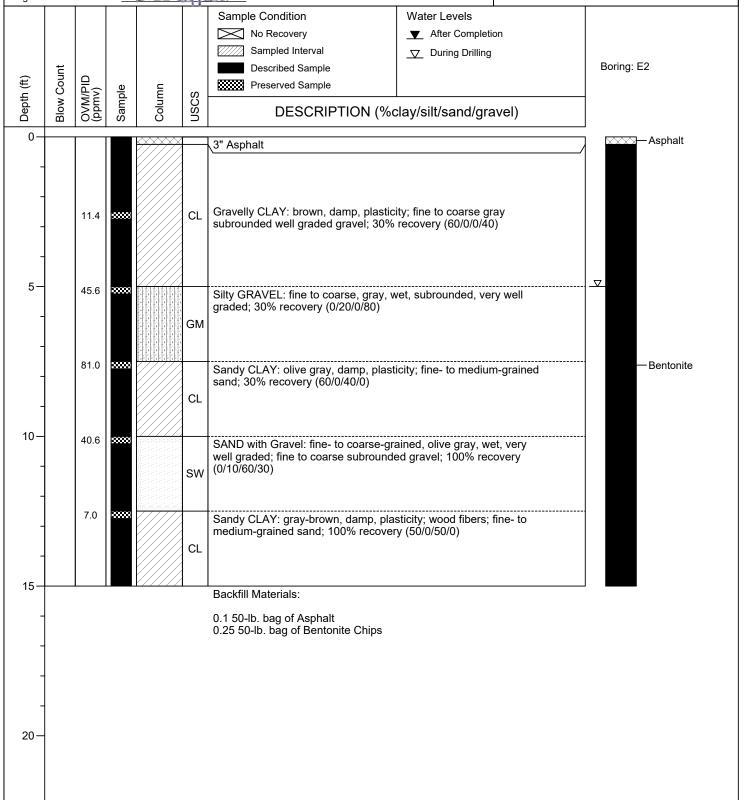
Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Luchapell

Date Drilled: : 08/09/21
Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

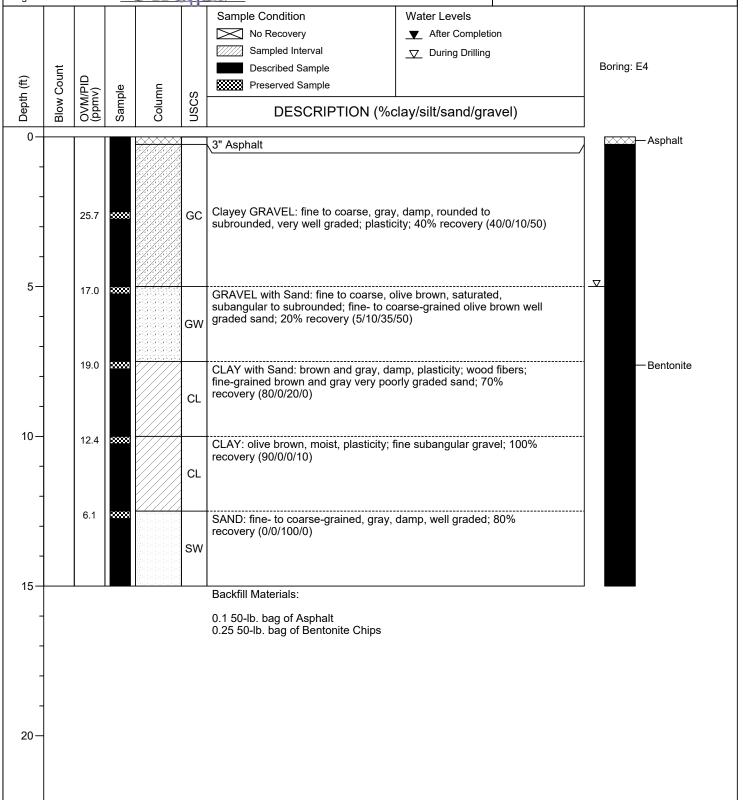
Signature: : Logged By: : Market Chappell

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

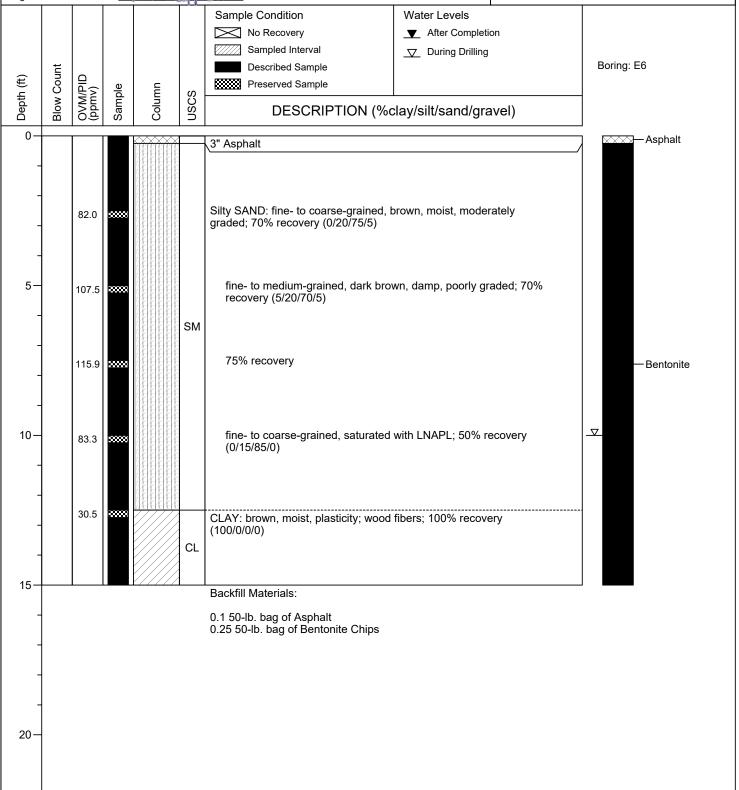
Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Louchapell

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A





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Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

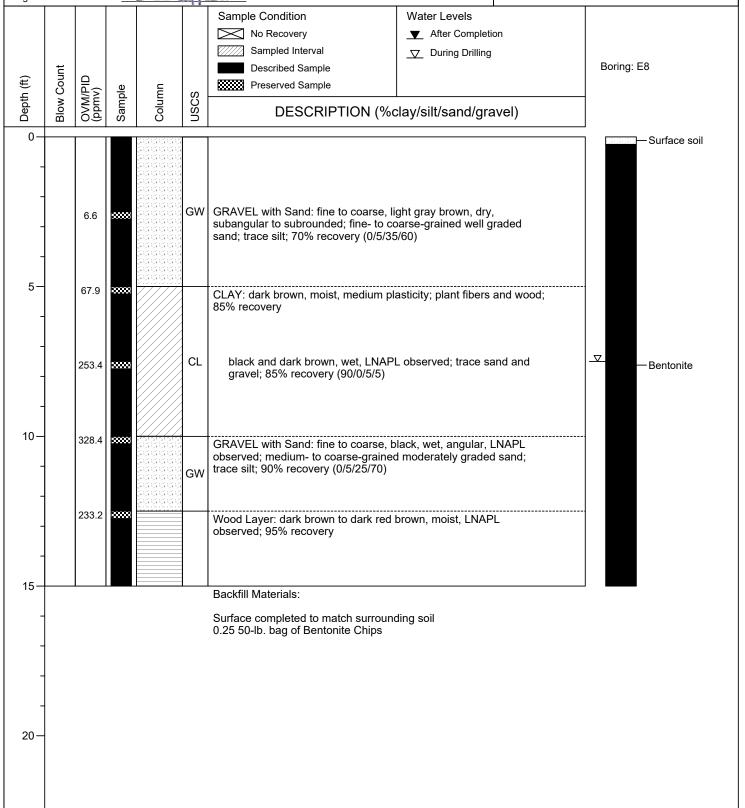
Logged By: : Paul Prevou

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Leave the control of the con

Date Drilled: : 08/09/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

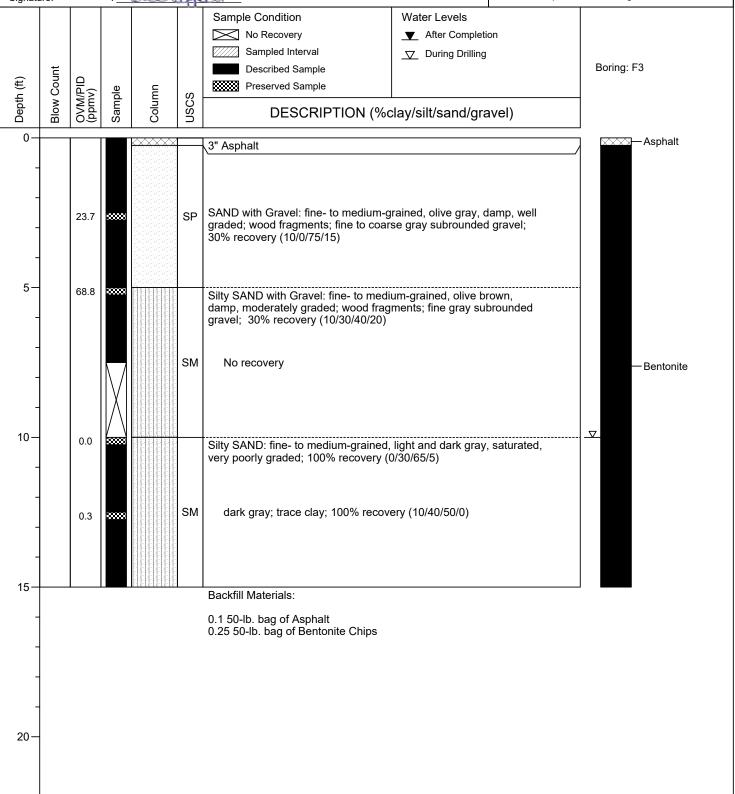
Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Luchapell

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A





(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

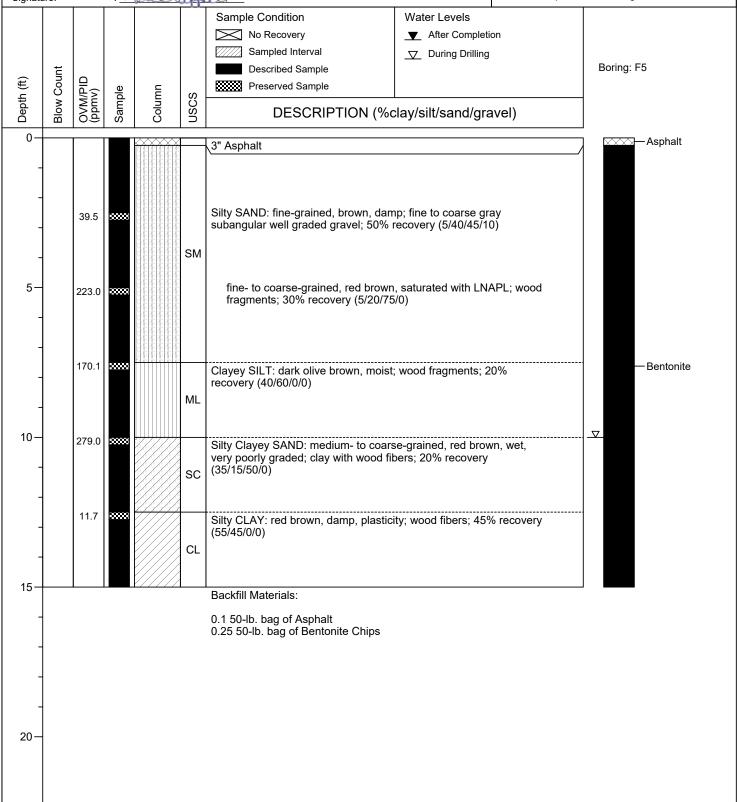
Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keilhappell Signature:

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc.

: Push Probe Drilling Method: Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A

Total Depth: : 15' bgs : 10' bgs First GW Depth:





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

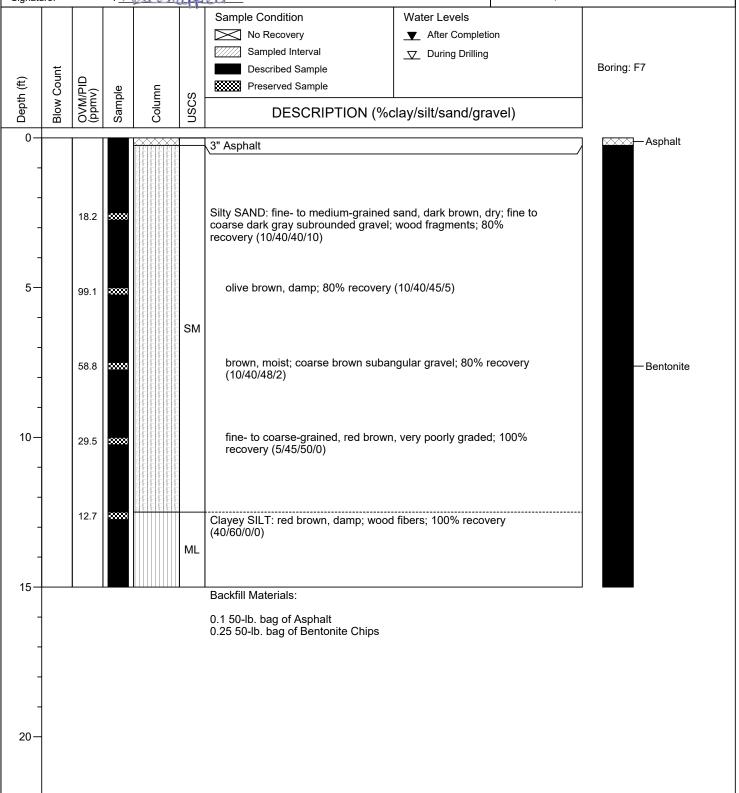
Signature: : Loubhard

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : N/A





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Logged By: : Keri Chappell, L.G. 2719

Date Drilled: : 08/10/21

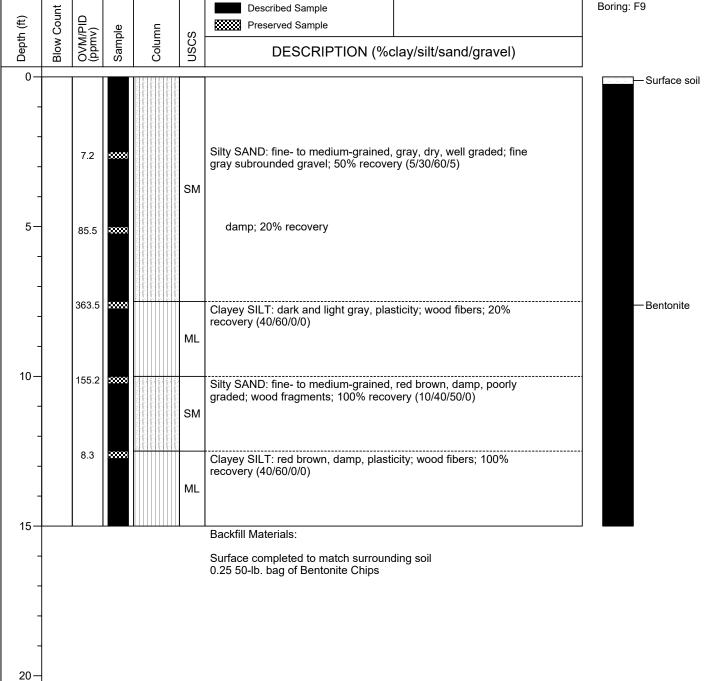
First GW Depth:

Drilling Co.: : Holocene Drilling, Inc.

: N/A

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs

				Sample Condition	Water Levels	
				No Recovery	_ ▼ After Completion	
				Sampled Interval	_ <u></u> During Drilling	
_	ınt	_		Described Sample		Boring: F9
Œ	20	□	 l _	Dreserved Sample		





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

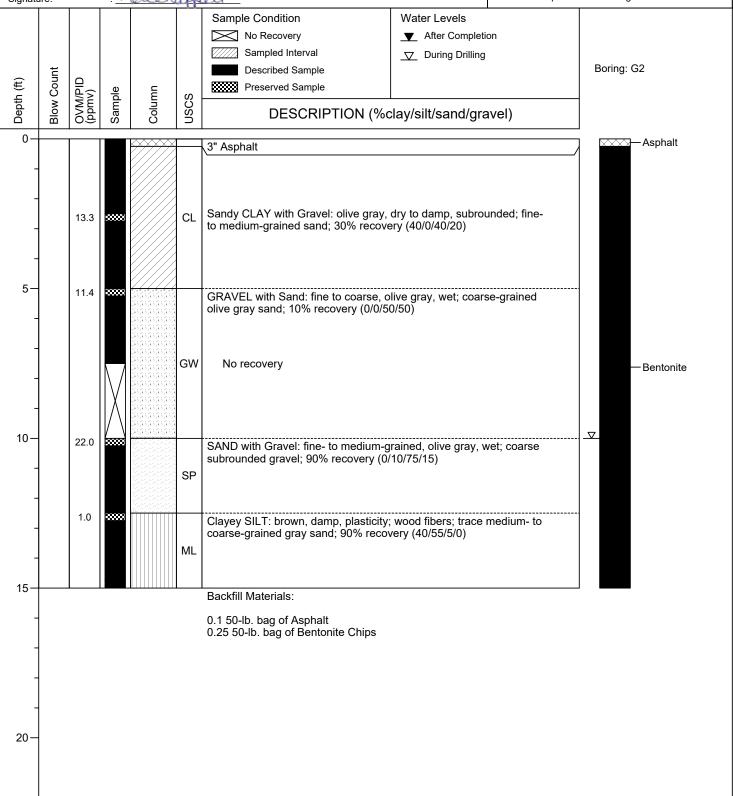
Signature: : Louby 201

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Kou Chappell

Drilling Co.:

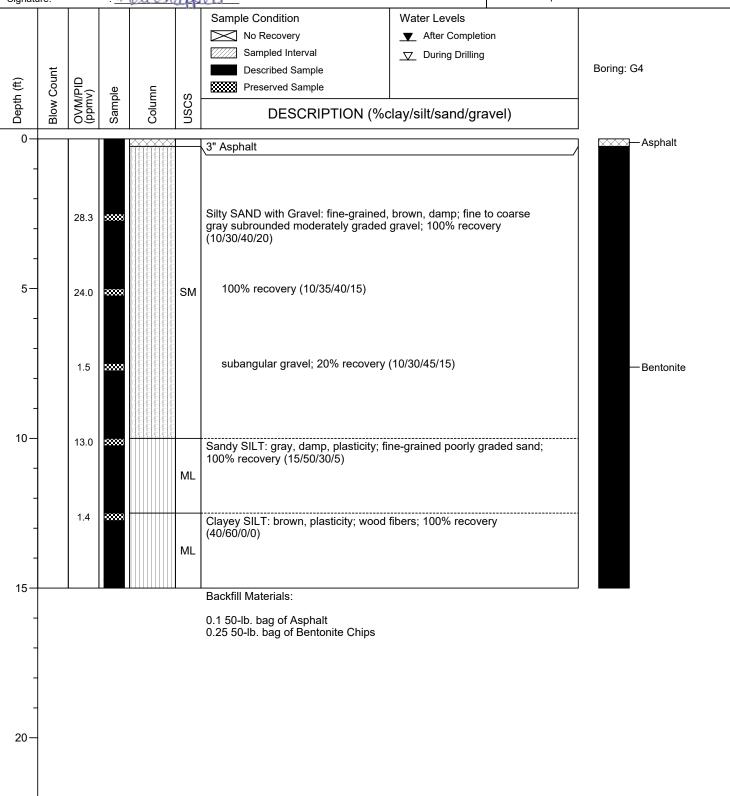
Date Drilled:

rilling Co.: : Holocene Drilling, Inc.

: 08/10/21

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : N/A





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

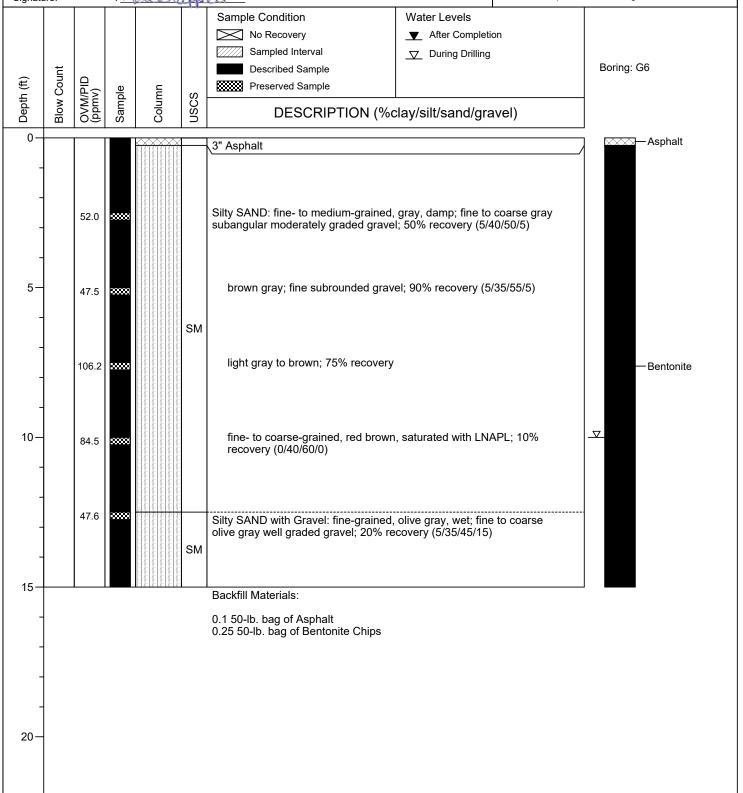
Signature: : Loubhapell

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

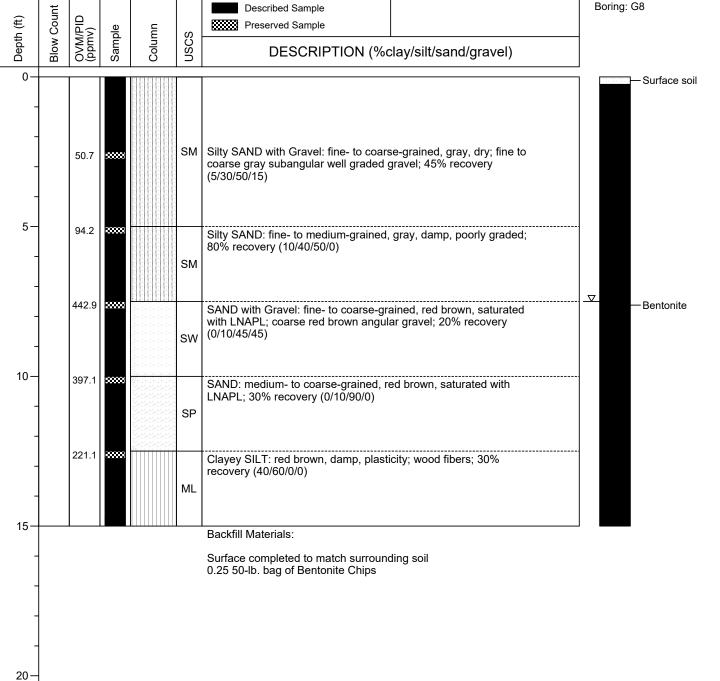
Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc.

: Push Probe Drilling Method: Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs

First GW Depth: : 7.5' bgs Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Logged By: : Market Chappell

Date Drilled: : 08/11/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A

Total Depth: : N/A
First GW Depth: : N/A

: N/A

: N/A

Signati	ire.		-1	eus	rapp	<u>lu</u>		Thot Off Bopan.	. 14/7
						Sample Condition No Recovery Sampled Interval	Water Levels _▼ After Complet _▽ During Drilling		
h (ft)	Blow Count	/PID v)	ple	uu	S	Described Sample Preserved Sample	<u></u>		Boring: H3
Depth (ft)	Blow	OVM/PID (ppmv)	Sample	Column	nscs	DESCRIPTION (%)	clay/silt/sand/gra	avel)	
0-						3" Asphalt]
-		16.5	::::::::::::::::::::::::::::::::::::::		the companion of the color of t	Silty SAND: fine-grained, dark brown poorly graded gravel; 100% recovery	ո, damp; fine gray sւ / (10/40/45/5)	ubrounded	
5-				the contract of the contract o	the region of th	Concrete debris observed at 5' bgs			
_		7.3	50000		ML	SILT with Clay: gray, dry, plasticity; ′	100% recovery (20/7	70/10/0)	
_		1.1	50000			SILT: gray, dry; 100% recovery (10/7	70/20/0)		— Bentonite
10-		18.5	50000		ML	Cit. CAND. for		4000/	
-		.0.0			SM	Silty SAND: fine-grained, gray, dry, v recovery (10/40/50/0)	very poorly graded;	100%	
-		2.0	88888		ML	Clayey SILT: brown, damp, plasticity (40/60/0/0)	, wood fibers; 35%	recovery	
15-						DLEII M-ti-l			
						Backfill Materials:			
_						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
-									
-									
20-									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

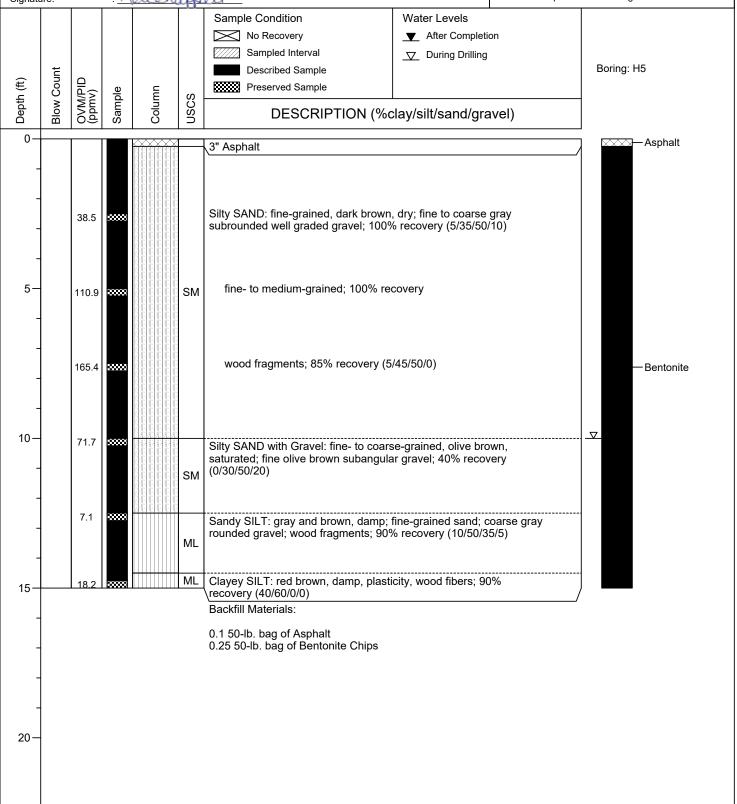
Signature: : Louchapell

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A

Total Depth: : 15' bgs
First GW Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

20

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719

Keulhappell Signature:

Date Drilled: : 08/10/21

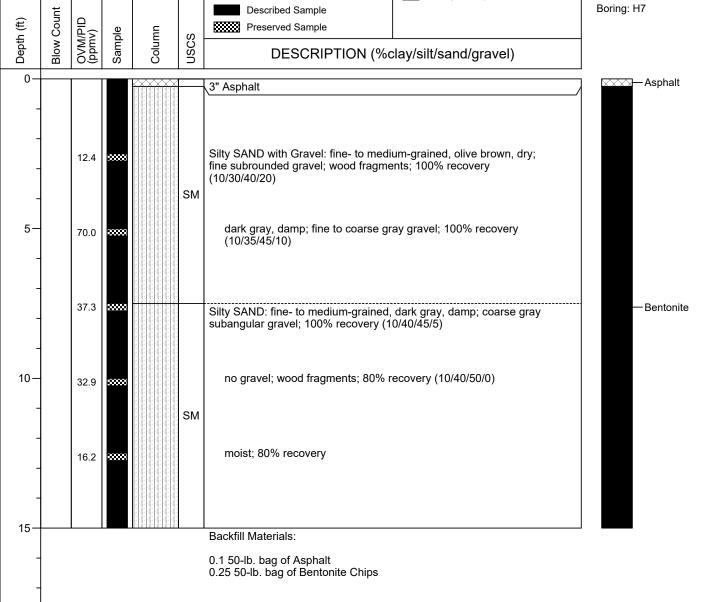
: Holocene Drilling, Inc. Drilling Co.:

: N/A

: Push Probe Drilling Method: Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs

First GW Depth:







(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: Reviewed By: : Keri Chappell, L.G. 2719 Signature:

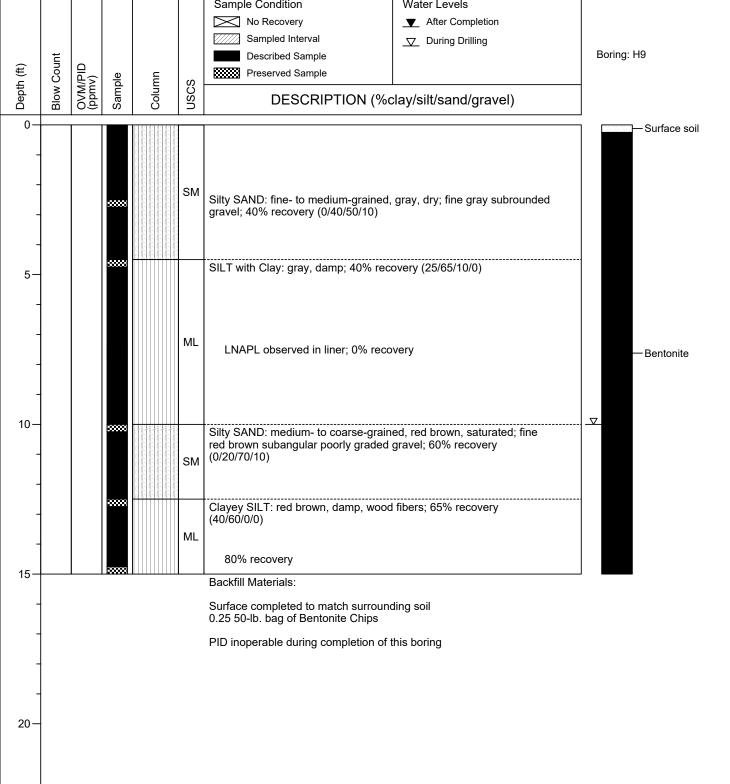
Date Drilled:

Drilling Co.: : Holocene Drilling, Inc.

: 08/11/21

: Push Probe Drilling Method: Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A

: John Considine Total Depth: : 15' bgs Keulhappell : 10' bgs First GW Depth: Sample Condition Water Levels





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

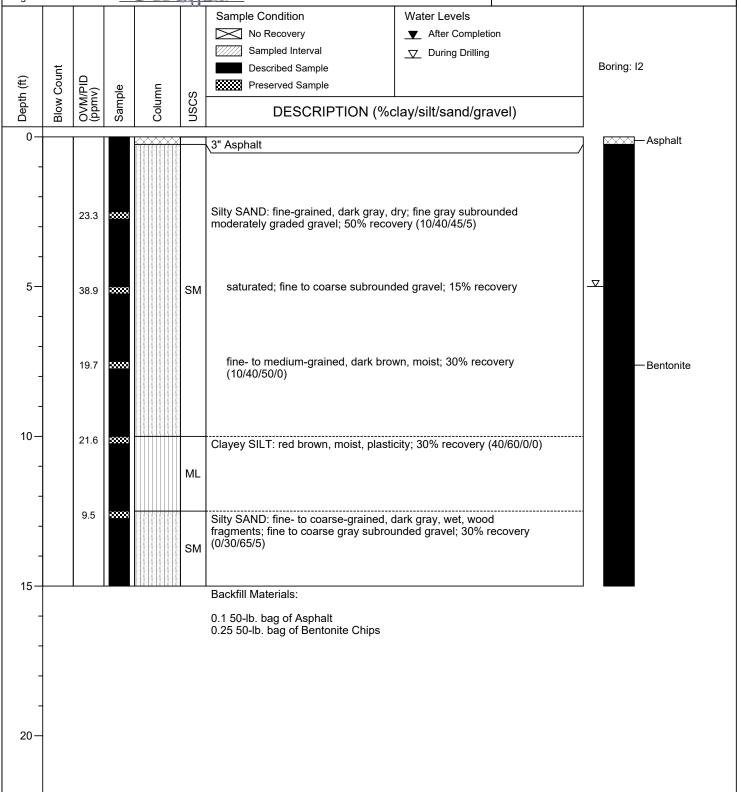
Signature: : Keri Chappell

Date Drilled: : 08/11/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

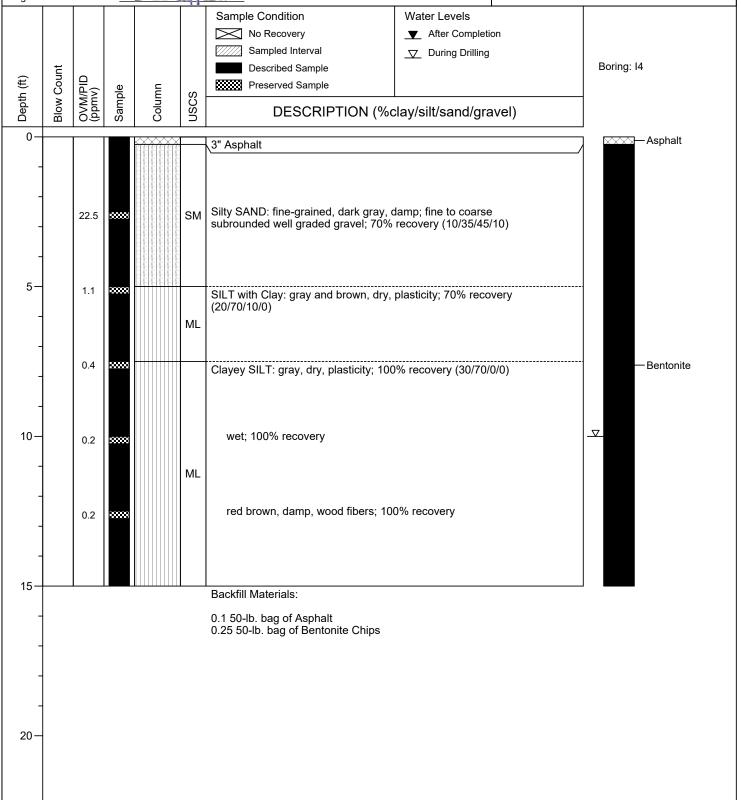
Signature: : Loubaged

Date Drilled: : 08/11/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Luch and U

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs

Sample Condition

Sample Condition

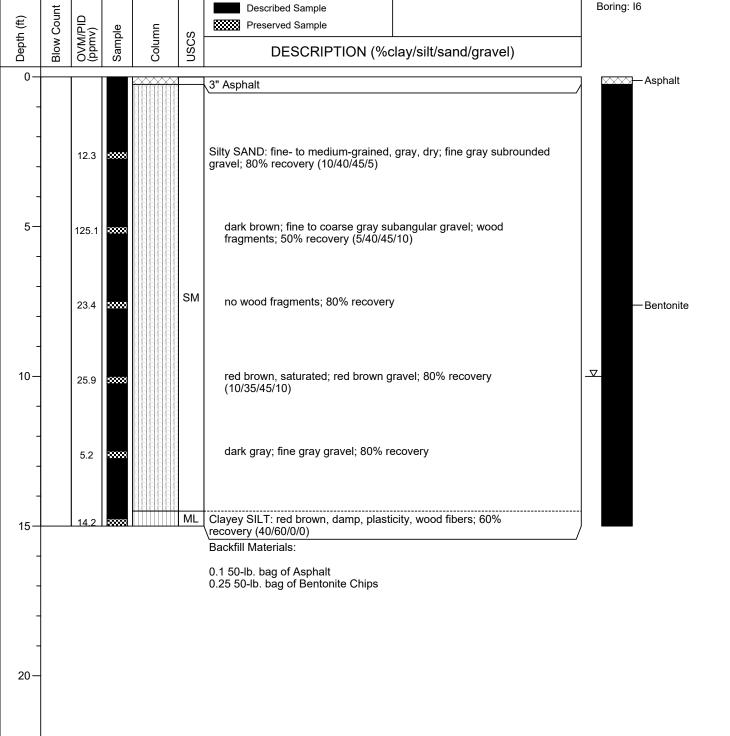
Water Levels

After Completion

Sampled Interval

During Drilling

Paring 16





DESCRIPTION (%clay/silt/sand/gravel)

(Page 1 of 1)

Project No.: : 031447

20

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc. : Push Probe Drilling Method:

: 10' bgs

-Surface soil

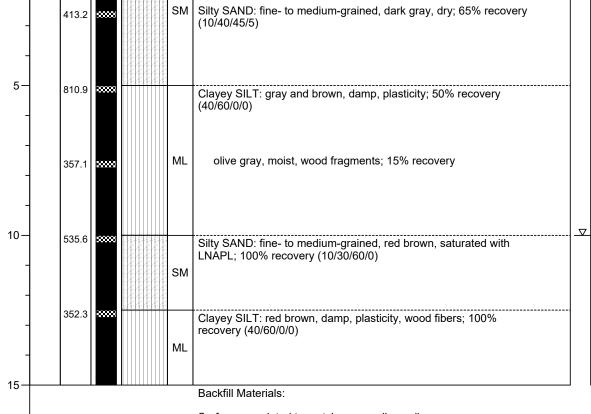
—Bentonite

Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs

First GW Depth:

Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling Boring: 18 **Described Sample Blow Count** OVM/PID (ppmv) Depth (ft) Preserved Sample Column Sample **USCS**

0



Surface completed to match surrounding soil 0.25 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

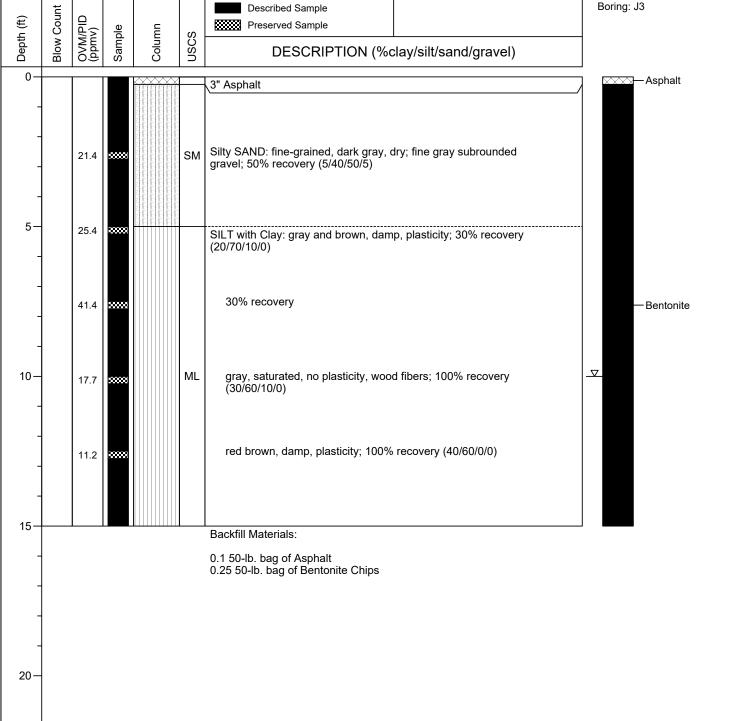
Date Drilled: Drilling Co.:

: Holocene Drilling, Inc. : Push Probe Drilling Method:

: 08/11/21

Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs First GW Depth: : 10' bgs

Sample Condition Water Levels ▼ After Completion No Recovery Sampled Interval □ During Drilling **Described Sample** Preserved Sample





(Page 1 of 1)

Project No.: : 031447

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Louby appeal

(Daga 1 of 1)

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe

Sampling Method: : M5 liners

Borehole Diameter: : 2.5"

Borehole Diameter: : 2.5"

Casing Diameter: : N/A

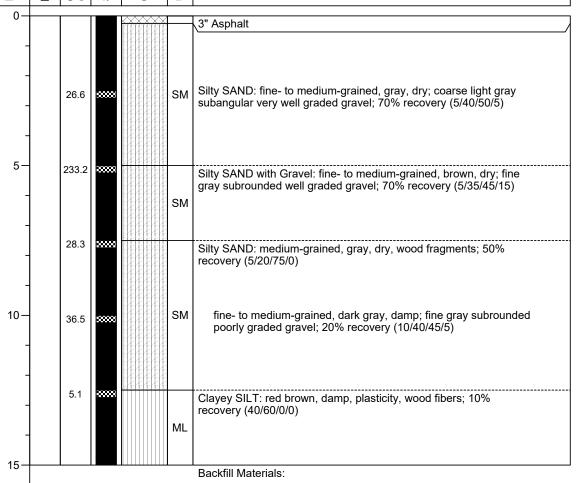
Latitude : N/A

Longitude : N/A

Total Depth: : 15' bgs

First GW Depth: : N/A

						Sample Condition	Water Levels		
						No Recovery	▼ After Completi	on	
						Sampled Interval	□ During Drilling		
	ınt					Described Sample			Boring: J5
(#)	Cor	/PID V)	e e	Ę	S	Preserved Sample			
Depth	Blow	VM/ mdc	Sample	olumr	SC	DESCRIPTION (%d	clav/silt/sand/gra	ıvel)	
	<u> </u>	0.5	0)	Ö	\supset				



— Bentonite

-Asphalt

0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Logged By: : Weri Chappell, L.G. 2719

Date Drilled: : 08/10/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs

Signatu	ire.		1	<u>auc</u>	up			Tilot Ott Bopail.	. 10 290
Depth (ft)	Blow Count	(vmdd)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	Water Levels ▼ After Completi □ During Drilling	1	Boring: J7
0-		П		· · · · · · · · · · · · · · · · · · ·	<u>a</u>	3" Asphalt]
- - -	2	49.8	*****		ML	Sandy SILT: dark gray, dry; fine- to n rounded moderately graded gravel; 8	nedium-grained san	nd; fine gray 5/35/5)	
5-	1	17.6	*****			Silty SAND with Gravel: fine- to medi fine to coarse dark gray subrounded recovery (10/35/40/15)	um-grained, dark gi well graded gravel;	ray, dry; 80%	
-	1	63.2			SM	medium-grained, gray; subangula recovery (5/30/45/20)	r gravel; wood fragr	ments; 40%	— Bentonite
10-	3	22.9				Silty SAND: medium-grained, red bro 15% recovery (5/20/75/0)	wn, saturated with	LNAPL;	▽
-	2	66.9	****		SM	fine- to coarse-grained, olive brow (10/35/50/5)	'n, moist; 15% reco	very,	
15				17,47,47,47,47,4	P1	Backfill Materials:			J
20						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			



(Page 1 of 1)

Project No.: : 031447

20

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keilhappell Signature:

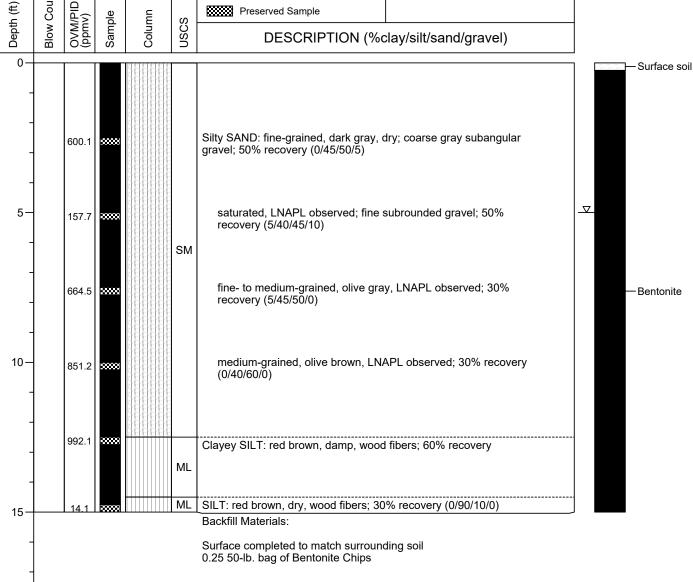
Date Drilled: : 08/11/21

Drilling Co.: : Holocene Drilling, Inc. : Push Probe Drilling Method:

Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs First GW Depth: : 5' bgs

Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling Boring: J9 **Described Sample Blow Count** OVM/PID (ppmv) Preserved Sample

DESCRIPTION (%clay/silt/sand/gravel)





(Page 1 of 1)

Water Levels

Project No.: : 031447

15

20

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Sample Condition

Backfill Materials:

0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips

PID inoperable during completion of this boring

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Logged By: : Logged By: : Logged By: : Keri Chappell, L.G. 2719

| -

Date Drilled: : 08/17/21

Drilling Co.: : Holocene Drilling, Inc.
Drilling Method: : Push Probe

Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%C		Boring: K2
0-		00	0)		_ر		, ,	Acabalt
-	-		****		ML	3" Asphalt Sandy SILT: gray, dry; 100% recover	y (5/50/40/5)	Asphalt
5-	-		20000		ML	Clayey SILT: brown, damp, plasticity; moist; 70% recovery (40/60/0/0)	70% recovery (30/60/10/0)	— Bentonite
10-					ML	Sandy SILT: dark gray, saturated; me recovery (10/60/30/0)		
-			33333		ML	Clayey SILT: red brown, damp, plasti recovery (30/60/10/0)	city, wood fibers; 70%	



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

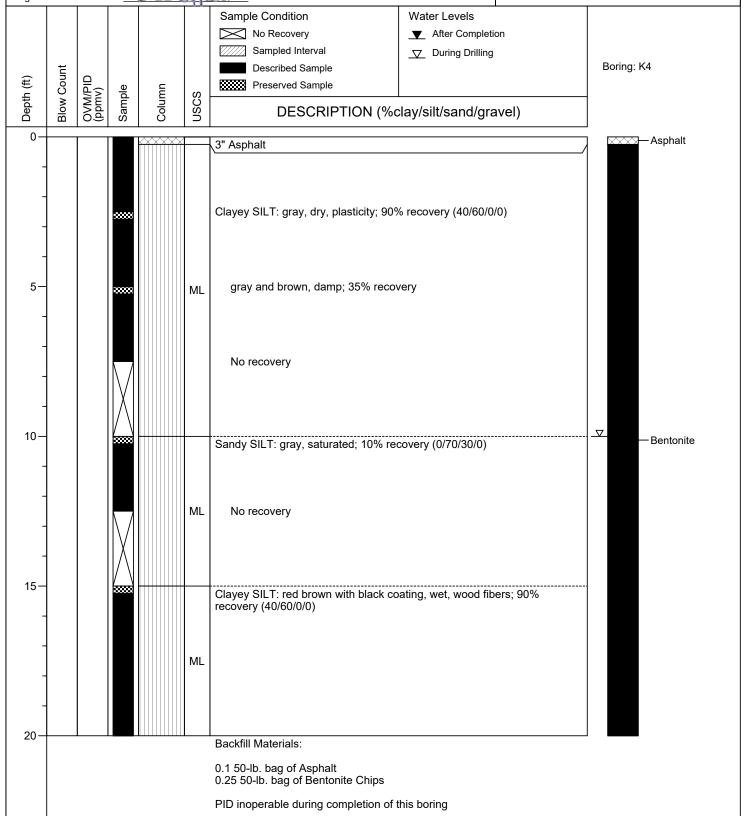
Signature: : Logged By: : Market Chappell, L.G. 2719

Date Drilled: : 08/18/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 20' bgs
First GW Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Loubaged

Signature: : Loubaged

Reviewed By: : Keri Chappell, L.G. 2719

Date Drilled: : 08/18/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs

Signatu	ie.		1	letter,	app	<u> </u>			Thot OVI Bopan.	. 10 £90
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	▼	ter Levels After Completi During Drilling		Boring: K6
	ш	05	(O)			21 (73.				
0						3" Asphalt] Asphalt
-			50000		SM		um-gr d fragr	ained, gray, d ments; 75% re	lry; fine to ecovery	
5-			88888			Sandy SILT: gray, moist; 100% recov	verv (1	0/60/30/0)		-
-					ML		, , , , ,	Grounds, ey		
-			50000		ML	Clayey SILT: gray, moist, plasticity; 1				— Bentonite
10-			88888		ML	Sandy SILT: gray, saturated; 40% re	covery	/ (5/65/30/0)		- · · · · · · · · · · · · · · · · · · ·
-			30000		SP	SAND: medium-grained, gray, damp	; 40%	recovery (5/1	0/85/0)	
15				<u> 1952 (53. 552 552 552 5</u>	1	Backfill Materials:				_
-						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips				
+						PID inoperable during completion of	this bo	oring		
						, 5		J		
7										
4										
20-										



(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

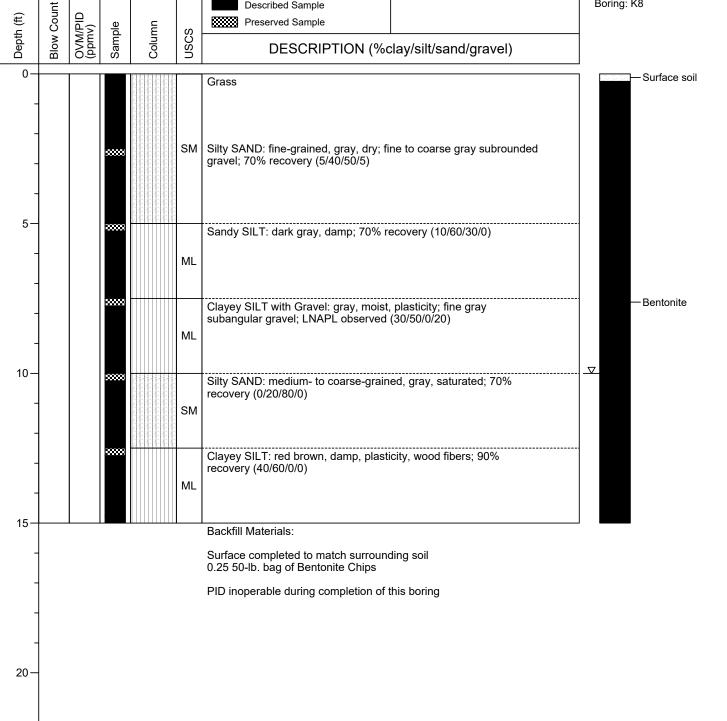
Date Drilled: : 08/18/21

Drilling Co.: : Holocene Drilling, Inc. : Push Probe Drilling Method:

Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs : 10' bgs

First GW Depth:

Sample Condition Water Levels No Recovery ▼ After Completion Sampled Interval During Drilling Boring: K8 **Described Sample**





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

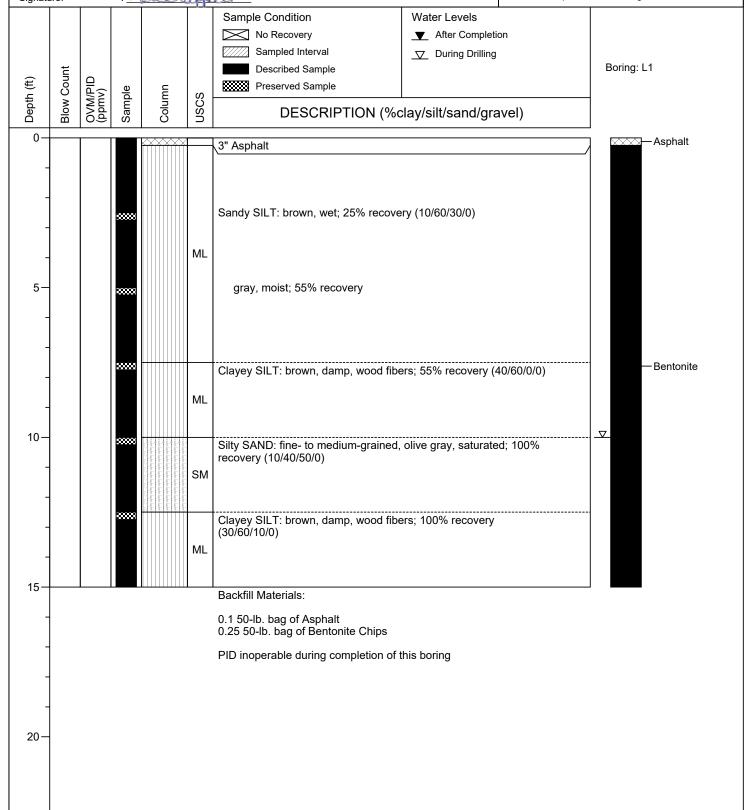
Signature: : Loubaged

Date Drilled: : 08/17/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

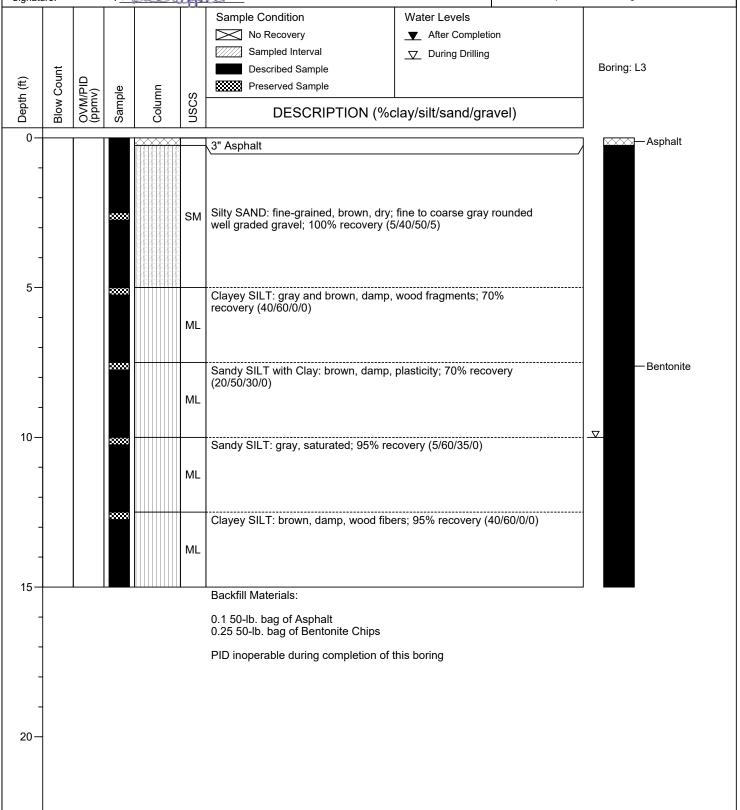
Signature: : Logged By: : Market Chappell, L.G. 2719

Date Drilled: : 08/17/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Louby appeal

Date Drilled: : 08/18/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs

Signatu	ıre:		1	euch	app	ell		First GW Depth:	: 10' bgs
						Sample Condition No Recovery	Water Levels _▼ After Completion	on	
						Sampled Interval	During Drilling		
	ınt					Described Sample			Boring: L5
٦ (ft)	Sol	4 ∃(\	<u>e</u>	иu	(n	Preserved Sample			
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	DESCRIPTION (%d	clay/silt/sand/gra	avel)	
0-					4	3" Asphalt			Asphalt
- - -			****		ML	SILT with Sand: gray, dry, plasticity;	100% recovery (10/	70/20/0)	
5-			30000			Oll To de de constitue de const	-4-4		
						SILT: dark gray, damp, wood fragmer (10/80/10/0)	nts throughout; 55%	recovery	
-					ML				
			30000			CII T with Cond and Clave done	danam mlaatiaituu finu		
_						SILT with Sand and Clay: dark gray, medium-grained gray sand; 45% reco	overy (20/60/20/0)	g- 10	
10 <i>-</i> -			sssss		ML	wet; 80% recovery (15/60/25/0)			
			*****			Clayey SILT: red brown, damp, plasti	city, wood fibers; 80)%	
=					ML	recovery (40/60/0/0)			
15 —						Backfill Materials:			
-						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
-						PID inoperable during completion of t	this boring		
							Ü		
_									
20 —									
20-									
	l								



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Louchapell

Date Drilled: : 08/18/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs

Signatu	ie.		. 7	ewen	app	<u>LU</u>		Tilot Ott Bopan.	. 10 290
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6)	Water Levels ▼ After Comple □ During Drilling clay/silt/sand/gr	9	Boring: L7
									1
0					1	3" Asphalt] Asphalt
-			*****		ML	Sandy SILT: dark gray, dry; fine gray (5/45/40/10)	v angular gravel; 10	0% recovery	
5			200000			Clavery Cll Transport majet magazining	200/ 2004		
-					ML	Clayey SILT: gray, moist, plasticity; 6	50% recovery (45/5	5/0/0)	
_			30000		ML	SILT: black, moist, large wood fragm	ents; 50% recovery	/ (20/80/0/0)	— Bentonite
10-			8888		SM	Silty SAND with Gravel: fine- to coar black angular gravel; wood fragment	se-grained, black, v	vet; fine	
			*****		ML	Clayey SILT: red brown, damp, plast recovery	icity, wood fibers; 7	5%	
15					1	Backfill Materials:			
_						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
┪						PID inoperable during completion of	this boring		
						eps.as.s saming completion of			
1									
1									
20-									
20									



(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

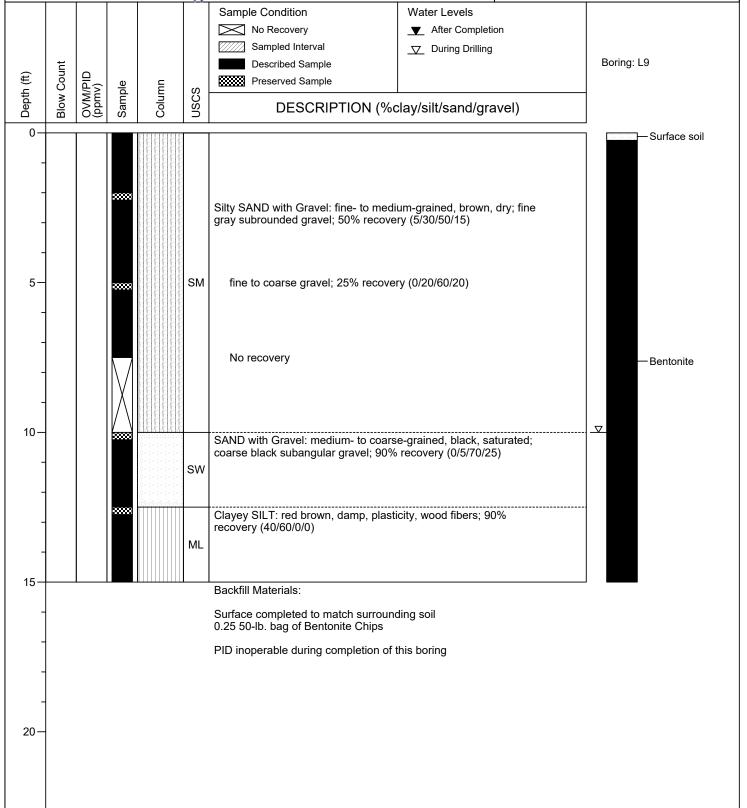
Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keilhappell Signature:

Date Drilled: : 08/18/21

Drilling Co.: : Holocene Drilling, Inc.

: Push Probe Drilling Method: Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A : N/A : N/A

Latitude Longitude Total Depth: : 15' bgs First GW Depth: : 10' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

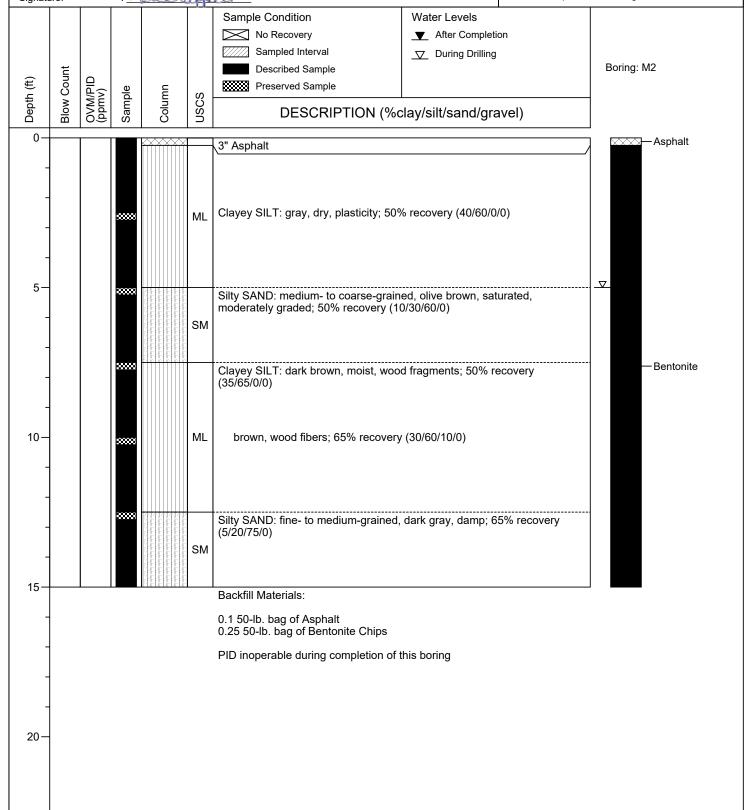
Signature: : Loubaged

Date Drilled: : 08/17/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Logged By: : Market By: : Logged By: : Keri Chappell, L.G. 2719

Date Drilled: : 08/17/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : N/A

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample	Water Levels ▼ After Completion ¬ During Drilling	Boring: M4
	eg .	<u> </u>	Sa	ပိ	S	DESCRIPTION (%d	lay/silt/sand/gravel)	
			****		ML	3" Asphalt Sandy SILT with Gravel: brown, dry; 70% recovery (5/40/35/20)	îne gray subrounded gravel;	Asphalt
5-			30000		SM	Silty SAND: fine- to medium-grained, recovery (10/40/50/0)	gray and brown, dry; 40%	-
-			30000		ML	SILT with Clay: red brown, damp, wo (20/80/0/0)	od fragments; 40% recovery	— Bentonite
10-			****		ML	Clayey SILT: brown, damp, plasticity; 100% recovery (40/60/0/0)	100% recovery (30/60/10/0)	
15-						Backfill Materials:		
-						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips		
-						PID inoperable during completion of t	his boring	
_								
20-								



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

 Date Drilled: : 08/18/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : N/A

Signatu	ıre:		X	reiich	app	oll		First GW Depth:	: N/A
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	Water Levels ▼ After Completion ▼ During Drilling Clay/silt/sand/gra		Boring: M6
0-						3" Asphalt] <u>∑∑</u> —Asphalt
			*****		SM	Silty SAND: fine-grained, gray, dry; fivery well graded gravel; 100% recove	ne to coarse gray su ery (5/40/45/10)	ubrounded	
5			20000		ML	SILT with Sand: dark brown, dry, woo (10/70/20/0)	od fragments; 65% r	ecovery	
-			50000		ML	SILT with Clay: dark gray, moist, plas recovery (20/70/10/0)	ticity, wood fragmer	nts; 65%	— Bentonite
10-			*****		ML	Sandy SILT: dark gray, damp; coarse recovery (20/50/30/0)	e-grained gray sand;	90%	
-			*****		ML	Clayey SILT: red brown, damp, plasti recovery (40/60/0/0)	city, wood fibers; 90	9%	
15 —		<u> </u>			1	Backfill Materials:			
-						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
						PID inoperable during completion of t	this boring		
-									
-									
20 —									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Loubaged

Signature: : Loubaged

Reviewed By: : Keri Chappell, L.G. 2719

Date Drilled: : 08/18/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs

Signatu	ire.		- 1	letter (app	<u> </u>			Tillot OVV Boptili.	. 10 290
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	▼	er Levels After Completi During Drilling		Boring: M8
0				1	1					J
-					ML	3" Asphalt Sandy SILT with Clay: gray, damp, p (20/50/30/0)	lasticit	y; 80% recov	ery	Asphalt
5-			2000		ML	Clayey SILT with Gravel: gray, moist, subrounded gravel; 80% recovery (30	, plasti 0/50/0/	city; fine gray /20)	,	
10-						Wood fragments with a black coating				— Bentonite
-			****		SM	Silty SAND: fine- to coarse-grained, gray subrounded gravel; wood fragm (10/30/50/10)	ents; 1	100% recover	у	
15					ML	Clayey SILT: red brown, damp, plasti (40/60/0/0)	icity; 1	00% recovery	/	
.						Backfill Materials:				
1						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips				
+						PID inoperable during completion of	this bo	oring		
20-										



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

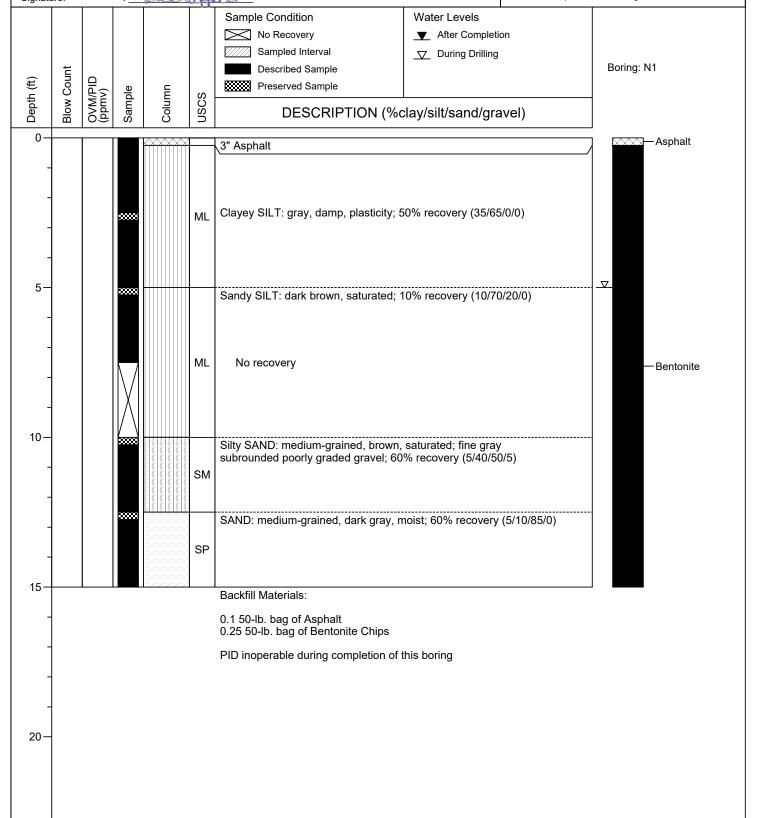
Signature: : Luchappell

Date Drilled: : 08/17/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs





(Page 1 of 1)

Project No.: : 031447

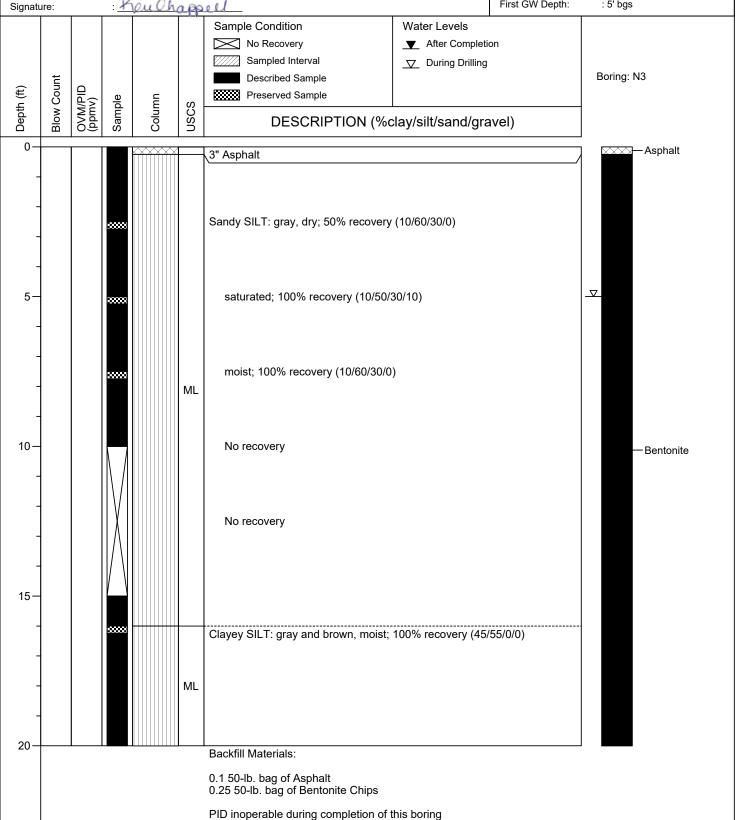
Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

 Date Drilled: : 08/17/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A

Longitude : N/A
Total Depth: : 20' bgs
First GW Depth: : 5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : You Chappell

Date Drilled: : 08/17/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs

Signatu	ıre:		X	reuch	app	ell		First GW Depth:	: 5' bgs
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%0	Water Levels ▼ After Completion ▼ During Drilling clay/silt/sand/gra		Boring: N5
0					4	3" Asphalt			Asphalt
-			****		SM	Silty SAND: fine-grained, brown, dry, subangular moderately graded grave	wood fragments; fir l; 80% recovery (5/3	ne gray 35/50/10)	
5			20000		ML	Sandy SILT: gray, wet; 70% recovery	(10/60/30/0)		
-			50000		ML	Clayey SILT: gray and brown, damp, (30/70/0/0)	plasticity; 70% reco	very	— Bentonite
10 - -			5000		ML	Sandy SILT with Clay: brown, moist, (20/50/30/0)	plasticity; 70% reco	very	
-			30000		ML	Clayey SILT: red brown, damp, wood (40/60/0/0)	fibers; 70% recove	ry	
15				•		Backfill Materials:			·
+						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
-						PID inoperable during completion of t	his boring		
-									
-									
20-									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

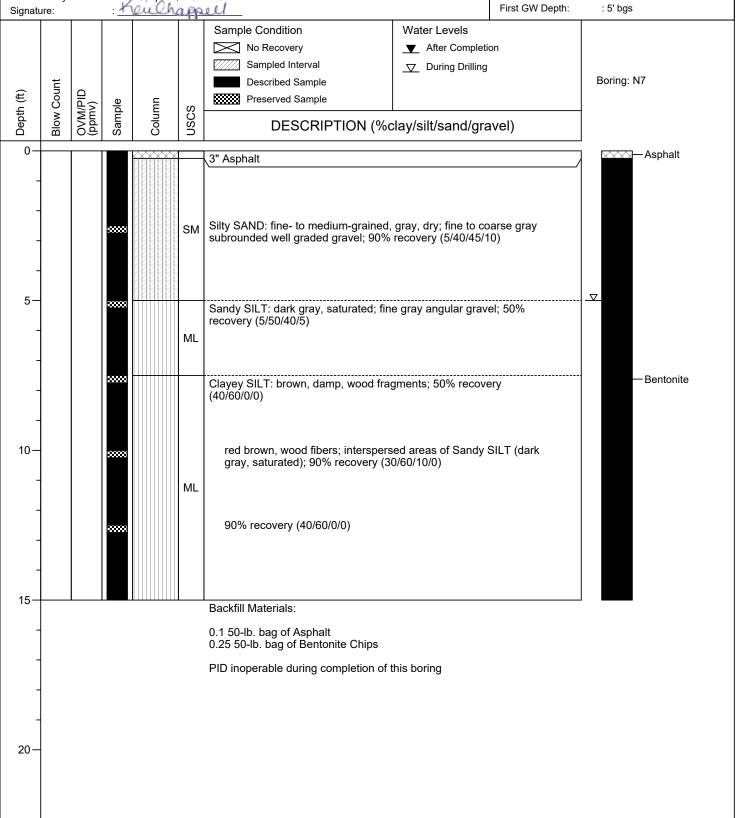
 (i ago i oi i)

Date Drilled: : 08/17/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Louis August 1

)2 | Drilling Co.:

Date Drilled:

Drilling Co.: : Holocene Drilling, Inc.

: 08/17/21

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs

Signature	e:	1	ewen	app				First GW Deptil.	. 5 bgs
					Sample Condition No Recovery	Water Le <u>▼</u> After		ion	
					Sampled Interval	Durir	ng Drilling		
	ti				Described Sample				Boring: O2
# #	요 분성	Se S	E	l o	Preserved Sample				
Depth (ft)	Blow Count OVM/PID	Sample	Column	nscs	DESCRIPTION (%d	clay/silt/sa	and/gra	avel)	
0				4	3" Asphalt				Asphalt
		****		ML	Sandy SILT: brown, dry; 100% recov	ery (10/60/	30/0)		
5-		20000			Control Cli To the Control				
				ML	Sandy SILT with Gravel: gray, satura poorly graded gravel; 50% recovery (ted; fine gra 5/50/30/15	ay subar)	nguiar	
		50000			Sandy SILT: brown, dry, wood fragm		ecovery		— Bentonite
				ML	(0/80/20/0)	ents, 50 % i	ecovery		
10-		5000		ML	Clayey SILT: red brown, damp, wood (40/60/0/0)	fibers; 50%	% recove	ery	
		20000			Silty SAND: fine-grained, dark gray, o	damp, wood	d fragme	nts; 50%	-
			the control of the co	SM	recovery (10/40/50/0)		-		
15			INNERES	N	Backfill Materials:				J
					0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips				
					-	hio herire			
					PID inoperable during completion of	ınıs boring			
20-									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Kerj Chappell, L.G. 2719

Signature: : Loubapell

Date Drilled: : 08/17/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	SOSO	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample	Water Levels ▼ After Completion ▽ During Drilling clay/silt/sand/gravel)	Boring: O4
0-	ā	ÓΘ	Š	ŭ) —		Jay/SiivSariu/graver)	
-						3" Asphalt No recovery		Asphalt
5-						No recovery		
- 10 —			$\left \begin{array}{c} \\ \\ \end{array} \right $			No recovery		— Bentonite
-			33333 33333		SM	Silty SAND with Gravel: medium- to o damp; fine gray subrounded gravel; 9	00% recovery (0/20/60/20)	
15-					ML	Clayey SILT: red brown, damp, wood (40/60/0/0) Backfill Materials:	Tibers; 90% recovery	
-						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips		
-						PID inoperable during completion of t	his boring	
20-								



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

: John Considine Logged By: : Keri Chappell, L.G. 2719 Reviewed By: Signature:

Date Drilled:

Drilling Co.: : Holocene Drilling, Inc.

: 08/17/21

Drilling Method: : Push Probe Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A

Longitude : N/A Total Depth: : 15' bgs First GW Depth: : 10' bgs

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	NSCS	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample	Water Levels ▼ After Completion ▼ During Drilling	Boring: O6
	BIC	ଠୁକୁ	Sa	ပိ	S)	DESCRIPTION (%cl	ay/siit/sand/gravei)	
0			****		SM	3" Asphalt Silty SAND: fine- to medium-grained, g subrounded well graded gravel; 100%	gray, dry; fine gray recovery (5/40/45/10)	Asphalt
5— - -			2000		ML	Clayey SILT: gray, damp, wood fragm (45/55/0/0)	ents; 100% recovery	
-			*****		ML	Sandy SILT with Clay: gray, dry, plasti (20/50/30/0)		— Bentonite
10 - -			50000		ML	Clayey SILT: brown, saturated, plastic (30/70/0/0)	ity; 100% recovery	
-			*****		SM	Silty SAND: fine-grained, dark gray, m (10/40/50/0)	oist; 100% recovery	
15—				1 14 14 14 14 14	•	Backfill Materials:		_
1						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips		
+						PID inoperable during completion of the	is boring	
+								
-								
20-								



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Loubeau

(i ago i oi i)

Date Drilled: : 08/16/21
Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : N/A

Signatu	ıre:		1	euch	<u> </u>	ell_		First GW Depth:	: N/A
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%C	Water Levels ▼ After Completion □ During Drilling Clay/silt/sand/gra		Boring: O8
0-									Annhalt
-			*****		SM	3" Asphalt Silty SAND: fine-grained, gray, dry; 4	0% recovery (5/45/5	50/0)	
5					ML	Sandy SILT: black, damp, wood fragr (5/55/40/0) No recovery	ments; 15% recover	у	— Bentonite
10— - -					ML	Clayey Sandy SILT: red black, damp, (30/40/30/0)			
- - 15—			33333 1		ML	Clayey SILT: red brown, damp, wood (40/60/0/0)	fibers; 60% recove	ry	
13						Backfill Materials:			
-						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
-						PID inoperable during completion of t	this boring		
-							J		
20-									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Logged By: : L.G. 2719

Date Drilled: : 08/16/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs

S	ignatu	re:		1	euch	upp	ell		First GW Depth:	: 5' bgs
							Sample Condition No Recovery	Water Levels After Completion	on	
							Sampled Interval	□ During Drilling		Poring: D1
1	_⊊	nu					Described Sample			Boring: P1
`	±)	ပို	<u></u> 5	ple	Ш	ဟ	Preserved Sample			
	Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	DESCRIPTION (%d	lay/silt/sand/gra	avel)	
	0						3" Asphalt			Asphalt
	-			*****		SM	Silty SAND: fine- to medium-grained, subangular well graded gravel; wood (5/40/45/10)	gray, dry; fine to co fragments; 30% rec	parse gray covery	
	5-			****			Olever Oll T. berry	00/ (40/00		_▽
	-					ML	Clayey SILT: brown, wet, plasticity; 9	u% recovery (40/60.	7070)	
				20000						— Bentonite
	-					SM	Silty SAND: fine- to medium-grained, 90% recovery (10/45/45/0)	brown, damp, wood	d fragments;	Bentonite
	10-			3333			Clayey SILT: brown, damp, plasticity, (40/60/0/0)	wood fibers; 100%	recovery	
	-			20000		ML	red brown			
	15				<u>n + + + + + + + + + + + + + + + + + + +</u>		Backfill Materials:			
	-						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
	-						PID inoperable during completion of t	his boring		
	-									
	1									
	20-									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Loubage U

Date Drilled: : 08/16/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Longitude : N/A
Total Depth: : 20' bgs
First GW Depth: : N/A

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	NSCS	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%clay/silt/sand/gravel) Water Levels During Drilling Boring: P3
0-	В	08	<u>σ</u>	0		
0- - - 5- - - 10-					SM	3" Asphalt Silty SAND: fine-grained, black, damp; fine gray subrounded gravel; wood; 50% recovery (5/40/50/5) No recovery No recovery No recovery — Bentonite
- - 15—						No recovery Clayey SILT: red brown, dry, plasticity, wood fibers; 50% recovery (40/60/0/0)
-			****		ML	(40/60/0/0)
20 —				•	•	Backfill Materials:
						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
						PID inoperable during completion of this boring



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Houch post U

Date Drilled: : 08/16/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs

Sample Condition No Recovery Sample Interval Described Sample DESCRIPTION (%clay/sitt/sand/gravel) O Clayery SILT: brown, wet; 20% recovery (30/70/00) Sitty SAND with Gravel: fine-grained, brown, dry; fine gray subrounded gravel; 40% recovery (30/70/00) Sitty SAND with Gravel: fine-to medium-grained sand, brown, dry; 20% recovery (0/30/50/20) Sitty SAND with Gravel: fine-to medium-grained, olive brown, saturated: fine to coarse gray subrounded gravel; 40% recovery (0/30/50/20) Bentonite Clayery SILT: brown, damp, plasticity; 100% recovery (40/60/00) Bentonite Clayery SILT: brown, damp, plasticity; 100% recovery (40/60/00) Bentonite Clayery SILT: brown, damp, plasticity; 100% recovery (40/60/00)	Signatu	ure:		1	euch	appe	ell_		First GW Depth:	: 10' bgs
SM Silty SAND with Gravel: fine-grained, brown, dry; fine gray subrounded gravel; 40% recovery (5/35/45/15) Clayey SiLT: brown, wet; 20% recovery (30/70/0/0) ML Silty SAND: fine- to medium-grained sand, brown, dry; 20% recovery (10/45/45/0) SM Silty SAND with Gravel: fine- to medium-grained, clive brown, saturated: fine to coarse gray subrounded gravel; 100% recovery (0/30/50/20) Clayey SiLT: brown, damp, plasticity; 100% recovery (40/60/0/0) ML Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips PID inoperable during completion of this boring	Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	No Recovery Sampled Interval Described Sample Preserved Sample	▼ After Completion ▼ During Drilling		Boring: P5
SM Silty SAND with Gravel: fine-grained, brown, dry; fine gray subrounded gravel; 40% recovery (5/35/45/15) Clayey Sil.T: brown, wet; 20% recovery (30/70/0/0) ML Silty SAND: fine- to medium-grained sand, brown, dry; 20% recovery (10/45/45/0) SM Silty SAND: fine- to medium-grained, olive brown, saturated; fine to coarse gray subrounded gravel; 100% recovery (0/30/50/20) Clayey Sil.T: brown, damp, plasticity; 100% recovery (40/60/0/0) ML Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips PID inoperable during completion of this boring	0-				· · · · · · · · · · · · · · · · · · ·	1	011 A 1 11			¹ I
Clayey SILT: brown, wet; 20% recovery (30/70/0/0) ML Silty SAND: fine- to medium-grained sand, brown, dry; 20% recovery (10/45/45/0) SM Silty SAND with Gravel: fine- to medium-grained, olive brown, saturated; fine to coarse gray subrounded gravel; 100% recovery (0/30/50/20) Clayey SILT: brown, damp, plasticity; 100% recovery (40/60/0/0) Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips PID inoperable during completion of this boring	- - -			*****		SM	Silty SAND with Gravel: fine-grained, subrounded gravel; 40% recovery (5/	35/45/15)	ay	ХХХХ АЗРПАК
Silty SAND. with Gravel: fine- to medium-grained, olive brown, saturated; fine to coarse gray subrounded gravel; 100% recovery (0/30/50/20) Clayey SILT: brown, damp, plasticity; 100% recovery (40/60/0/0) Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips PID inoperable during completion of this boring	5			****		ML	Clayey SILT: brown, wet; 20% recover	ery (30/70/0/0)		
Silty SAND with Gravel: fine- to medium-grained, olive brown, saturated; fine to coarse gray subrounded gravel; 100% recovery (0/30/50/20) Clayey SILT: brown, damp, plasticity; 100% recovery (40/60/0/0) Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips PID inoperable during completion of this boring	_			20000		SM	Silty SAND: fine- to medium-grained recovery (10/45/45/0)	sand, brown, dry; 20	0%	
Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips PID inoperable during completion of this boring	10-			50000		SM	saturated; fine to coarse gray subrout	um-grained, olive br nded gravel; 100% i	rown, recovery	
Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips PID inoperable during completion of this boring	-			*****		ML	Clayey SILT: brown, damp, plasticity;	100% recovery (40)(60/0/0)	
0.25 50-lb. bag of Bentonite Chips PID inoperable during completion of this boring -	15-						Backfill Materials:			·
	-]					0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
20 —	_						PID inoperable during completion of t	his boring		
20 –	-									
	20-	_								



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

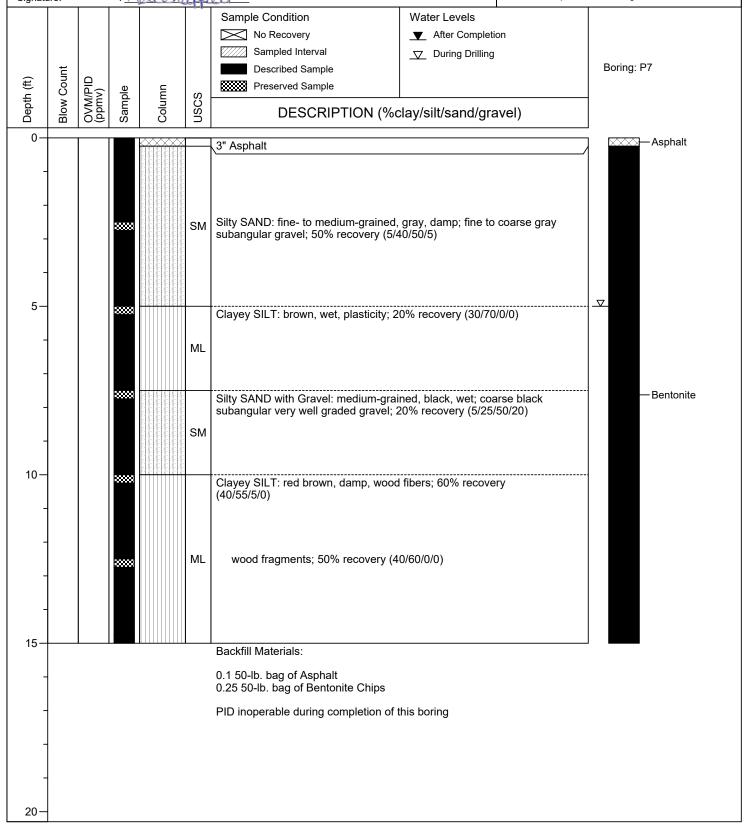
Signature: : Loubeaut

Date Drilled: : 08/16/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : Loubapell

Date Drilled: : 08/16/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A
Longitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs

Signati	ire.		· 2_1/	uun,	app	ell_		Thot OVY Boptin.	. 10 bgs
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	Water Levels ▼ After Comple □ During Drilling clay/silt/sand/gr	9	Boring: Q2
0-									
5—					ML	3" Asphalt Clayey SILT: gray and brown, dry, pl (30/70/0/0)			Asphalt
-					ML	SILT: brown, moist, plasticity; 20% re			
_					ML	Clayey SILT: brown, moist, plasticity		/70/0/0)	— Bentonite
10-			90000		ML	Sandy SILT: gray, wet; 20% recover	y (10/50/40/0)		
-			*****		ML	Clayey SILT: gray, wet, plasticity; 20	% recovery (40/60/	0/0)	
15-						Backfill Materials:			·
-						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
						PID inoperable during completion of	this boring		
-									
-									
20-									



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

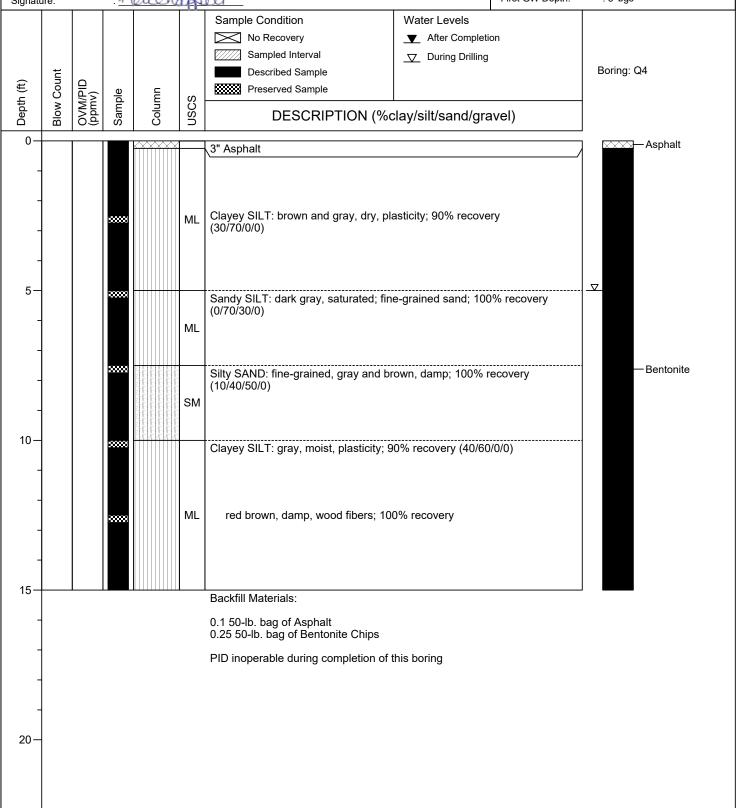
Logged By: : John Considine
Reviewed By: : Keri Chappell, L.G. 2719
Signature: : Louis August 1

Date Drilled: : 08/16/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 5' bgs





(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

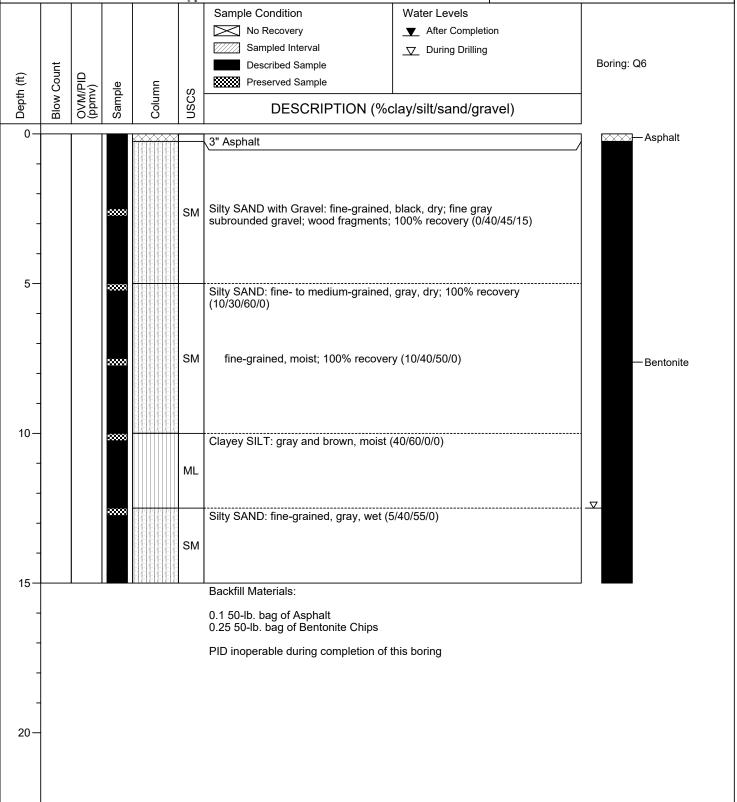
Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

Date Drilled: : 08/12/21

Drilling Co.: : Holocene Drilling, Inc.

: Push Probe Drilling Method: Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A : N/A : N/A

Latitude Longitude Total Depth: : 15' bgs First GW Depth: : 12.5' bgs





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine : Keri Chappell, L.G. 2719 : Keulhapell Reviewed By: Signature:

Date Drilled: : 08/12/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A

Longitude : N/A Total Depth: : 15' bgs First GW Depth: : 10' bgs

Signatu	iie.		· <u>- · ·</u>	eus (41	<u></u>			Tillot OTT Boptili.	. 10 290
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	Sample Condition No Recovery Sampled Interval Described Sample Preserved Sample DESCRIPTION (%6	▼	ter Levels After Completi During Drilling		Boring: R1
De	쯢	[6호]	Sa	ပိ	l S	DESCRIPTION (%d	iay/s	siit/sand/gra	avei)	
										_
0						3" Asphalt]
-			****		SM	Silty SAND: fine- to medium-grained, (10/40/50/0)	dark	gray, dry; 30%	% recovery	
5-			33333			Sandy SILT: gray, dry; fine-grained s	and: ?	30% recovery		-
						(10/60/30/0)	aria, c	50 70 1000VC1 y		
					ML					
-										
			50000			0.11 0.441D 1:		450/		- Bentonite
10-			*****		SM	Silty SAND: medium-grained, dark gr (10/30/60/0) fine- to medium-grained, gray, mo				
			*****							-
_					ML	Clayey SILT: red brown, wood fibers	75%	recovery (40/	60/0/0)	
15						Backfill Materials:				_
-						0.1 50-lb. bag of Asphalt				
						0.25 50-lb. bag of Bentonite Chips				
1						PID inoperable during completion of	his bo	oring		
4										
+										
20-										
20-										



(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

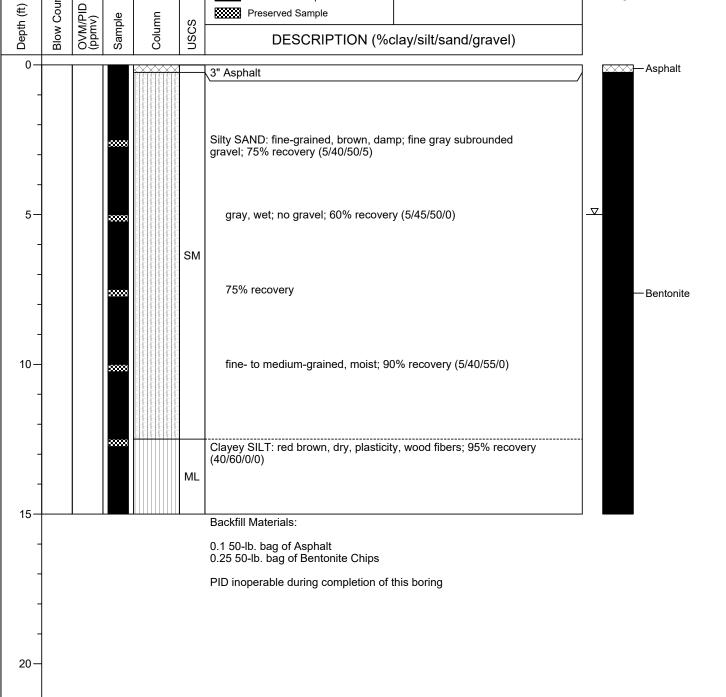
Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

Date Drilled: : 08/12/21

Drilling Co.: : Holocene Drilling, Inc. Drilling Method: : Push Probe

Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs First GW Depth: : 5' bgs

					Sample Condition	Water Levels	
					No Recovery	_ ▼ After Completion	
					Sampled Interval	During Drilling	
_	ınt	_			Described Sample		Boring: R3
(ff)	Cou	E	<u>e</u>	<u> </u>	 Preserved Sample		





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : You Chappell

Date Drilled: : 08/12/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Longitude : N/A
Total Depth: : 15' bgs
First GW Depth: : 10' bgs

Signatu	ıre:		K	euch	app	<u>ell</u>		First GW Depth:	: 10' bgs
						Sample Condition	Water Levels		
						No Recovery Sampled Interval	▼ After Completion	on	
	ᇦ					Described Sample	<u></u> During Drilling		Boring: R5
Œ	uno	ē (Φ	_		Preserved Sample			
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	DESCRIPTION (%d	Lay/eilt/eand/ara	יייפו	
	B	ÓΘ	ΐ	Ŏ	Ϊ́	DESCRIPTION (700	——————————————————————————————————————		
0-						3" Asphalt		/	Asphalt
5					SM	Silty SAND: fine-grained, brown, dry; gravel; 50% recovery (5/30/55/10) LNAPL observed in liner, no recovery fine- to medium-grained, gray, sat (0/40/60/0)	very from 5' to 8' bgs	8	— Bentonite
			****	giber against against		Sandy SILT with Clay: red brown, dry	wood fibers: fine-o	 grained	
1						Sandy SILT with Clay: red brown, dry gray sand; 75% recovery (20/50/30/0)	,	
-					ML				
15						D. J.C.I.M.			
						Backfill Materials:			
1						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
1						PID inoperable during completion of t	his boring		
+									
-									
20-									
20-									



Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

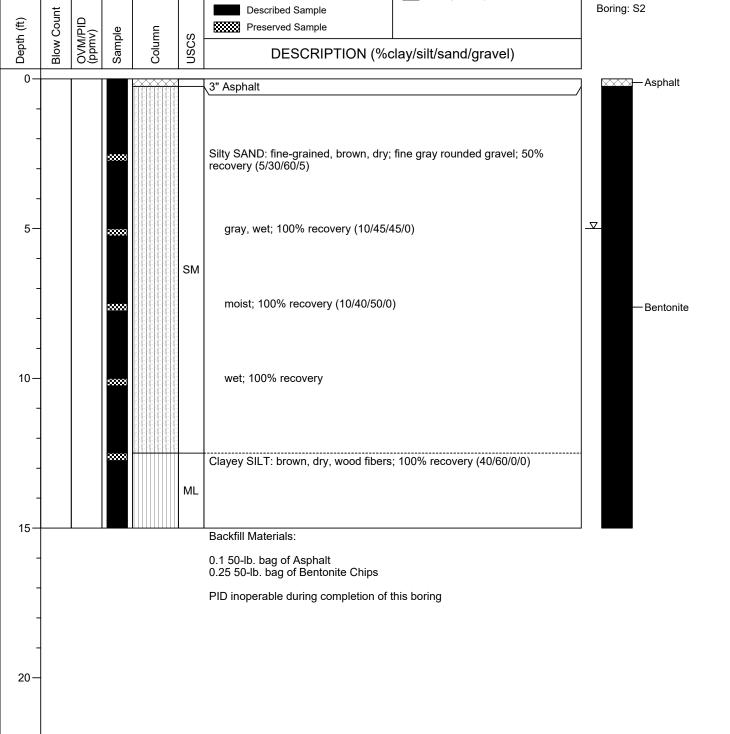
(Page 1 of 1)

Date Drilled: : 08/12/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs First GW Depth: : 5' bgs

Sample Condition Water Levels ▼ After Completion No Recovery Sampled Interval □ During Drilling **Described Sample**





(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine

Reviewed By: : Keri Chappell, L.G. 2719

Signature: : 1000 Chappell

Date Drilled: : 08/12/21

Drilling Co.: : Holocene Drilling, Inc.

Drilling Method: : Push Probe
Sampling Method: : M5 liners
Borehole Diameter: : 2.5"
Casing Diameter: : N/A
Latitude : N/A

Latitude : N/A
Longitude : N/A
Total Depth: : 14' bgs
First GW Depth: : N/A

Signatu	ıre:		K	ou Oh	age.	eel_		First GW Depth:	: N/A
						Sample Condition	Water Levels		
						No Recovery	▼ After Completion	on	
						Sampled Interval	During Drilling		
	ㅂ					Described Sample			Boring: S4
(ft)	Sou	PID (<u>e</u>	٤		Preserved Sample			
Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	nscs	DESCRIPTION (%d	clay/silt/sand/gra	ivel)	
0-					1	√3" Asphalt			Asphalt
- - 5—			****		ML	Clayey SILT: brown, damp, plasticity gray, moist; 100% recovery (30/60		60/0/0)	— Bentonite
- 10 — -					SM	Silty SAND: fine-grained, gray, moist 100% recovery (10/40/50/0)			
_			*****			Clayey SILT: red brown, dry, wood fil (40/60/0/0)	bers; 100% recovery	/	
					ML	Refusal at 14' bgs			
-						Backfill Materials:			
15—						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
-						PID inoperable during completion of	this boring		
-									
-									
20									
20 —									
	l								



(Page 1 of 1)

Project No.: : 031447

Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

Date Drilled: Drilling Co.:

First GW Depth:

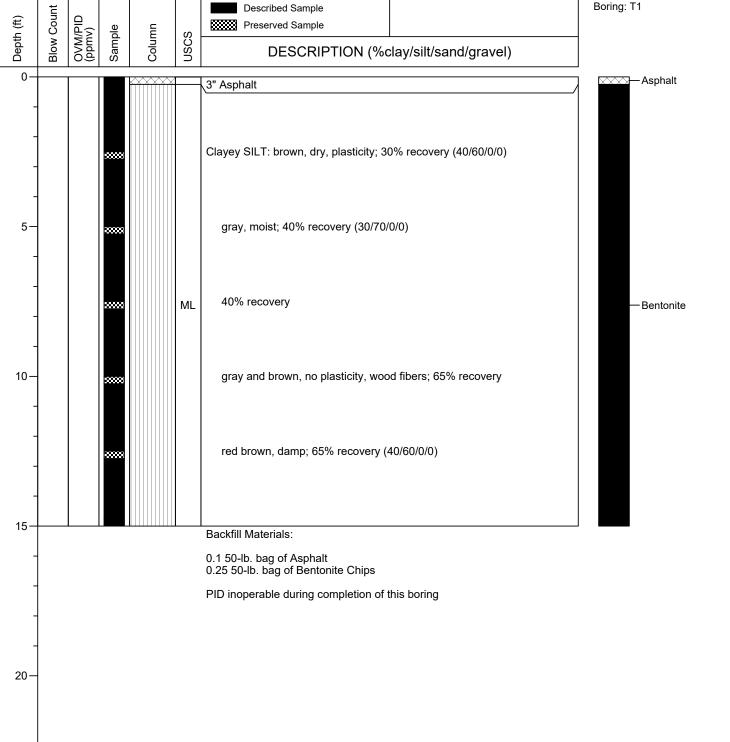
: Holocene Drilling, Inc.

: N/A

: 08/16/21

Drilling Method: : Push Probe Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs

Sample Condition Water Levels ▼ After Completion No Recovery Sampled Interval During Drilling **Described Sample**





(Page 1 of 1)

Project No.: : 031447

: ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA

Logged By: : John Considine Reviewed By: : Keri Chappell, L.G. 2719 Keulhappell Signature:

Date Drilled: Drilling Co.:

First GW Depth:

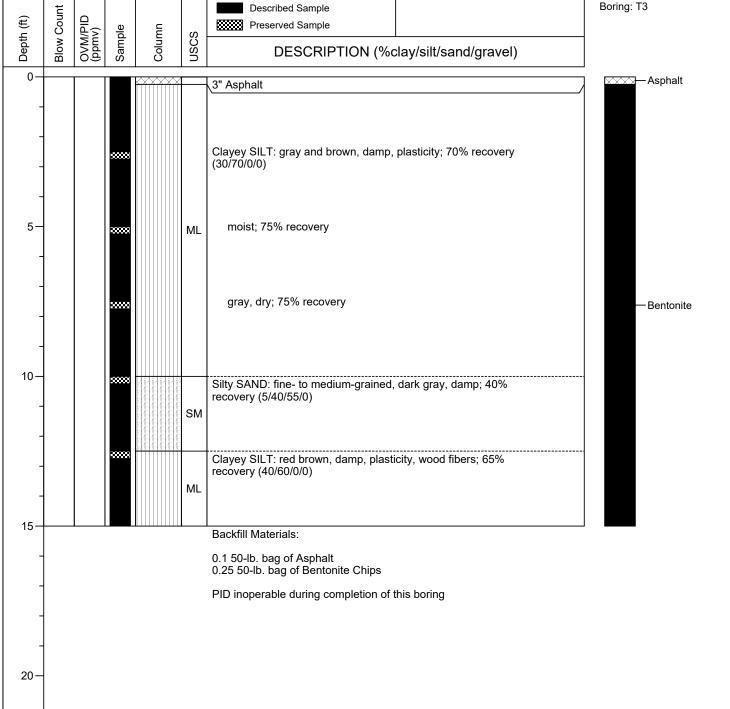
: Holocene Drilling, Inc.

: N/A

: 08/16/21

Drilling Method: : Push Probe Sampling Method: : M5 liners Borehole Diameter: : 2.5" Casing Diameter: : N/A Latitude : N/A Longitude : N/A Total Depth: : 15' bgs

Sample Condition Water Levels ▼ After Completion No Recovery Sampled Interval □ During Drilling Described Sample



APPENDIX DLaboratory Analytical Results



Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-66942-1

Client Project/Site: ExxonMobil ADC / 0314476040

Revision: 1

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Cerill d. on Amia

Authorized for release by: 8/31/2021 4:47:50 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

2

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13

2

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Method Summary	163
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12

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-

Sample Summary

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-66942-1	S-5-C2	Solid	08/09/21 09:35	08/12/21 10:15
570-66942-2	S-7.5-C2	Solid	08/09/21 09:40	08/12/21 10:15
570-66942-3	S-10-C2	Solid	08/09/21 09:45	08/12/21 10:15
570-66942-4	S-12.5-C2	Solid	08/09/21 09:50	08/12/21 10:15
570-66942-5	S-5-C4	Solid		08/12/21 10:15
570-66942-6	S-7.5-C4	Solid		08/12/21 10:15
570-66942-7	S-10-C4	Solid		08/12/21 10:15
570-66942-8	S-12.5-C4	Solid		08/12/21 10:15
570-66942-9	S-2.5-C6	Solid		08/12/21 10:15
570-66942-10	S-5-C6	Solid		08/12/21 10:15
570-66942-11	S-7.5-C6	Solid		08/12/21 10:15
570-66942-12	S-10-C6	Solid		08/12/21 10:15
570-66942-13	S-2.5-C8	Solid		08/12/21 10:15
570-66942-14	S-5-C8	Solid		08/12/21 10:15
570-66942-15	S-7.5-C8	Solid		08/12/21 10:15
570-66942-16	S-10-C8	Solid		08/12/21 10:15
570-66942-17	S-12.5-C8	Solid		08/12/21 10:15
570-66942-18	S-2.5-D9	Solid		08/12/21 10:15
570-66942-19	S-5-D9	Solid		08/12/21 10:15
570-66942-20	S-7.5-D9	Solid		08/12/21 10:15
570-66942-21	S-10-D9	Solid		08/12/21 10:15
570-66942-22	S-12.5-D9	Solid		08/12/21 10:15
570-66942-23	S-2.5-E8	Solid		08/12/21 10:15
570-66942-24	S-5-E8	Solid		08/12/21 10:15
570-66942-25	S-7.5-E8	Solid		08/12/21 10:15
570-66942-26	S-10-E8	Solid		08/12/21 10:15
570-66942-27	S-12.5-E8	Solid		08/12/21 10:15
570-66942-28	S-2.5-D7	Solid		08/12/21 10:15
570-66942-29	S-5-D7	Solid		08/12/21 10:15
570-66942-30	S-7.5-D7	Solid		08/12/21 10:15
570-66942-31	S-10-D7	Solid		08/12/21 10:15
570-66942-32	S-12.5-D7	Solid		08/12/21 10:15
570-66942-33	S-2.5-E6	Solid		08/12/21 10:15
570-66942-34	S-5-E6	Solid		08/12/21 10:15
570-66942-35	S-7.5-E6	Solid		08/12/21 10:15
570-66942-36	S-10-E6	Solid		08/12/21 10:15
570-66942-37	S-12.5-E6	Solid		08/12/21 10:15
570-66942-38	S-2.5-D5	Solid		08/12/21 10:15
570-66942-39	S-5-D5	Solid		08/12/21 10:15
570-66942-40	S-7.5-D5	Solid		08/12/21 10:15
570-66942-41	S-10-D5	Solid		08/12/21 10:15
570-66942-42	S-12.5-D5	Solid		08/12/21 10:15
570-66942-43	S-2.5-E4	Solid		08/12/21 10:15
570-66942-44	S-5-E4	Solid		08/12/21 10:15
570-66942-45	S-7.5-E4	Solid		08/12/21 10:15
570-66942-46	S-10-E4	Solid		08/12/21 10:15
570-66942-47	S-12.5-E4	Solid		08/12/21 10:15
570-66942-48	S-2.5-D3	Solid		08/12/21 10:15 08/12/21 10:15
570-66942-49	S-5-D3	Solid		08/12/21 10:15
	S-5-D3 S-7.5-D3	Solid		08/12/21 10:15 08/12/21 10:15
570-66942-50 570-66942-51				08/12/21 10:15 08/12/21 10:15
570-66942-51	S-10-D3	Solid		
570-66942-52	S-12.5-D3	Solid		08/12/21 10:15 08/12/21 10:15
570-66942-53	S-2.5-E2	Solid		08/12/21 10:15 08/12/21 10:15
570-66942-54	S-5-E2	Solid		08/12/21 10:15
570-66942-55	S-7.5-E2	Solid	08/09/21 15:35	08/12/21 10:15

Sample Summary

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040 Job ID: 570-66942-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
570-66942-56	S-10-E2	Solid	08/09/21 15:40	08/12/21 10:15	
570-66942-57	S-12.5-E2	Solid	08/09/21 15:45	08/12/21 10:15	
570-66942-58	S-2.5-D1	Solid	08/09/21 15:50	08/12/21 10:15	
570-66942-59	S-5-D1	Solid	08/09/21 15:55	08/12/21 10:15	
570-66942-60	S-7.5-D1	Solid	08/09/21 16:00	08/12/21 10:15	
570-66942-61	S-10-D1	Solid	08/09/21 16:05	08/12/21 10:15	
570-66942-62	S-12.5-D1	Solid	08/09/21 16:10	08/12/21 10:15	
570-66942-63	S-2.5-G2	Solid	08/10/21 07:45	08/12/21 10:15	
570-66942-64	S-5-G2	Solid	08/10/21 07:50	08/12/21 10:15	
570-66942-66	S-10-G2	Solid	08/10/21 07:55	08/12/21 10:15	
570-66942-67	S-12.5-G2	Solid	08/10/21 08:00	08/12/21 10:15	
570-66942-68	S-2.5-F3	Solid	08/10/21 08:05	08/12/21 10:15	
570-66942-69	S-5-F3	Solid		08/12/21 10:15	
570-66942-70	S-10-F3	Solid		08/12/21 10:15	
570-66942-71	S-12.5-F3	Solid	08/10/21 08:20	08/12/21 10:15	
570-66942-72	S-2.5-G4	Solid	08/10/21 08:25	08/12/21 10:15	
570-66942-73	S-5-G4	Solid	08/10/21 08:30	08/12/21 10:15	
570-66942-74	S-7.5-G4	Solid		08/12/21 10:15	
570-66942-75	S-10-G4	Solid	08/10/21 08:40		
570-66942-76	S-12.5-G4	Solid		08/12/21 10:15	
570-66942-77	S-2.5-F5	Solid	08/10/21 09:15		
570-66942-78	S-5-F5	Solid	08/10/21 09:20	08/12/21 10:15	
570-66942-79	S-7.5-F5	Solid	08/10/21 09:25	08/12/21 10:15	
570-66942-80	S-10-F5	Solid		08/12/21 10:15	
570-66942-81	S-12.5-F5	Solid	08/10/21 09:35	08/12/21 10:15	
570-66942-82	S-2.5-G6	Solid	08/10/21 09:40	08/12/21 10:15	
570-66942-83	S-5-G6	Solid		08/12/21 10:15	
570-66942-84	S-7.5-G6	Solid	08/10/21 09:50	08/12/21 10:15	
570-66942-85	S-10-G6	Solid	08/10/21 09:55		
570-66942-86	S-12.5-G6	Solid	08/10/21 10:00	08/12/21 10:15	
570-66942-87	S-2.5-F7	Solid		08/12/21 10:15	
570-66942-88	S-5-F7	Solid		08/12/21 10:15	
570-66942-89	S-7.5-F7	Solid		08/12/21 10:15	
570-66942-90	S-10-F7	Solid		08/12/21 10:15	
570-66942-91	S-12.5-F7	Solid		08/12/21 10:15	
570-66942-92	S-2.5-G8	Solid		08/12/21 10:15	
570-66942-93	S-5-G8	Solid		08/12/21 10:15	
570-66942-94	S-7.5-G8	Solid		08/12/21 10:15	
570-66942-95	S-10-G8	Solid		08/12/21 10:15	
570-66942-96	S-12.5-G8	Solid		08/12/21 10:15	
570-66942-97	S-2.5-F9	Solid		08/12/21 10:15	
570-66942-98	S-5-F9	Solid		08/12/21 10:15	
570-66942-99	S-7.5-F9	Solid		08/12/21 10:15	
570-66942-100	S-10-F9	Solid		08/12/21 10:15	
570-66942-101	S-12.5-F9	Solid		08/12/21 10:15	
570-66942-101	S-2.5-F9 DUP	Solid		08/12/21 10:15	
		Solid		08/12/21 10:15	
570-66942-103	S-2.5-18			08/12/21 10:15	
570-66942-105	S-5-18 S-7-5-18	Solid Solid		08/12/21 10:15	
570-66942-105	S-7.5-18	Solid			
570-66942-106	S-10-18			08/12/21 10:15	
570-66942-107	S-12.5-18	Solid		08/12/21 10:15	
570-66942-108	S-2.5-H7	Solid		08/12/21 10:15	
570-66942-109	S-5-H7	Solid		08/12/21 10:15	
570-66942-110	S-7.5-H7	Solid		08/12/21 10:15	
570-66942-111	S-10-H7	Solid	08/10/21 12:25	U8/12/21 10:15	

Sample Summary

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

570-66942-141 S-7.5-H7 DUP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-66942-112	S-12.5-H7	Solid	08/10/21 12:30	08/12/21 10:15
570-66942-113	S-2.5-I6	Solid	08/10/21 12:35	08/12/21 10:15
570-66942-114	S-5-I6	Solid	08/10/21 12:40	08/12/21 10:15
570-66942-115	S-7.5-I6	Solid	08/10/21 12:45	08/12/21 10:15
570-66942-116	S-10-I6	Solid	08/10/21 12:50	08/12/21 10:15
570-66942-117	S-12.5-I6	Solid	08/10/21 12:55	08/12/21 10:15
570-66942-118	S-2.5-J7	Solid	08/10/21 13:05	08/12/21 10:15
570-66942-119	S-5-J7	Solid	08/10/21 13:10	08/12/21 10:15
570-66942-120	S-7.5-J7	Solid	08/10/21 13:15	08/12/21 10:15
570-66942-121	S-10-J7	Solid	08/10/21 13:20	08/12/21 10:15
570-66942-122	S-12.5-J7	Solid	08/10/21 13:25	08/12/21 10:15
570-66942-123	S-14.5-I6	Solid	08/10/21 13:00	08/12/21 10:15
570-66942-124	S-2.5-J5	Solid	08/10/21 13:35	08/12/21 10:15
570-66942-125	S-5-J5	Solid	08/10/21 13:40	08/12/21 10:15
570-66942-126	S-7.5-J5	Solid	08/10/21 13:45	08/12/21 10:15
570-66942-127	S-10-J5	Solid	08/10/21 13:50	08/12/21 10:15
570-66942-128	S-12.5-J5	Solid	08/10/21 13:55	08/12/21 10:15
570-66942-129	S-2.5-H5	Solid	08/10/21 14:00	08/12/21 10:15
570-66942-130	S-5-H5	Solid	08/10/21 14:05	08/12/21 10:15
570-66942-131	S-7.5-H5	Solid	08/10/21 14:10	08/12/21 10:15
570-66942-132	S-10-H5	Solid	08/10/21 14:15	08/12/21 10:15
570-66942-133	S-12.5-H5	Solid	08/10/21 14:20	08/12/21 10:15
570-66942-134	S-14.5-H5	Solid	08/10/21 14:25	08/12/21 10:15
570-66942-135	S-5-D5 DUP	Solid	08/09/21 14:15	08/12/21 10:15
570-66942-136	S-10-E4 DUP	Solid	08/09/21 14:50	08/12/21 10:15
570-66942-137	S-10-D1 DUP	Solid	08/09/21 16:05	08/12/21 10:15
570-66942-138	S-10-F9 DUP	Solid	08/10/21 11:30	08/12/21 10:15
570-66942-139	S-5-J5 DUP	Solid	08/10/21 13:40	08/12/21 10:15
570-66942-140	S-5-H5 DUP	Solid	08/10/21 14:05	08/12/21 10:15

Solid

08/10/21 12:20 08/12/21 10:15

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Definitions/Glossary

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Qualifier Description

Qualifiers

GC	VOA
Qual	ifier

S1- Surrogate recovery exceeds control limits, low biased.

S1+ Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

4 MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

E Result exceeded calibration range.

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly	/ used abbreviations may	y or may not be	present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

. . .

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Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Job ID: 570-66942-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-66942-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 08/30/2021. The report (Revision 1) is being revised due to: Sample 570-66942-102 has been corrected to show the sample ID as S-2.5-F9 DUP.

The samples were received on 8/12/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 3.8° C, 4.0° C, 4.1° C, 4.5° C and 4.6° C.

Receipt Exceptions

The Chain-of-Custody (COC) was improperly completed. Received 8 containers instead of 4.

The following samples were submitted; however, they were not listed on the Chain-of-Custody (COC): S-5-D5 DUP (570-66942-135), S-10-E4 DUP (570-66942-136), S-10-D1 DUP (570-66942-137), S-10-F9 DUP (570-66942-138), S-5-J5 DUP (570-66942-139) and S-5-H5 DUP (570-66942-140). Please refer to the attached email.

The following sample was listed on the Chain of Custody (COC); however, no sample was received: S-7.5-G2 (570-66942-65). Please refer to the attached email.

GC VOA

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-171922. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-172337. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-172559. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-172815. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-10-D5 (570-66942-41). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173304. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173340. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following samples were outside control limits: S-7.5-E6 (570-66942-35), S-5-F5 (570-66942-78) and S-7.5-F5 (570-66942-79). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173152. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with

Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Job ID: 570-66942-1 (Continued)

Laboratory: Eurofins Calscience LLC (Continued)

analytical batch 570-173393. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173418. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-5-H5 DUP (570-66942-140). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173454. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173459. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173725. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-14.5-H5 (570-66942-134). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-10-G2 (570-66942-66). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173959. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-173212 and analytical batch 570-173940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method NWTPH-Dx: Surrogate recovery for the following samples were outside control limits: S-2.5-C6 (570-66942-9), S-10-C8 (570-66942-16), S-5-E6 (570-66942-34), S-10-E6 (570-66942-36) and S-5-D5 (570-66942-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Dx: The following sample was diluted due to the nature of the sample matrix: S-5-C6 (570-66942-10). Elevated reporting limits (RLs) are provided.

Method NWTPH-Dx: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 570-173215 and analytical batch 570-173940 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of TPH as Motor Oil (C17-C44) in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-173220 and analytical batch 570-174335 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method NWTPH-Dx: Due to the high concentration of TPH as Diesel (C10-C28), the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-173220 and analytical batch 570-174335 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-173212 and analytical batch 570-174335 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the

Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Job ID: 570-66942-1 (Continued)

Laboratory: Eurofins Calscience LLC (Continued)

associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: S-10-D5 (570-66942-41). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: S-5-F3 (570-66942-69). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Dx: Due to the high concentration of TPH as Diesel Range and TPH as Motor Oil Range, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-173226 and 570-173226 and analytical batch 570-175001 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

Method NWTPH-Dx: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 570-173226 and analytical batch 570-175001 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of TPH as Motor Oil Range in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method NWTPH-Dx: Surrogate recovery for the following samples were outside control limits: S-5-F5 (570-66942-78) and S-2.5-J7 (570-66942-118). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-173229 and 570-173229 and analytical batch 570-175125 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method NWTPH-Dx: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 570-173229 and analytical batch 570-175125 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of TPH as Motor Oil (C17-C44) in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method NWTPH-Dx: Surrogate recovery for the following samples were outside control limits: S-5-J5 (570-66942-125) and S-5-J5 DUP (570-66942-139). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: S-7.5-F7 (570-66942-89). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Cardno, Inc Job ID: 570-66942-1 Project/Site: ExxonMobil ADC / 0314476040 Client Sample ID: S-5-C2 Lab Sample ID: 570-66942-1

Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.57	0.24	mg/Kg	1 🔅 NWTPH-Gx	Total/NA
TPH as Motor Oil Range	500	29	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-7.5-C2	Lab Sample ID: 570-66942-2

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	1700	6.0	mg/Kg	1	⊅	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	660	6.0	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-C2 Lab Sample ID: 570-66942-3

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.3	0.15	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	27	6.8	mg/Kg	1 ಘ	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	20	6.8	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-12.5-C2 Lab Sample ID: 570-66942-4

Analyte TPH as Gasoline (C4-C13) TPH as Diesel Range TPH as Motor Oil Range	85 98	Qualifier	RL 37 6.8	Unit mg/Kg mg/Kg mg/Kg	Dil Fac 250 1	—	NWTPH-Gx	Prep Type Total/NA Silica Gel Cleanup Silica Gel
TPH as Motor Oil Range	42		6.8	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-C4 Lab Sample ID: 570-66942-5

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	760	53	mg/Kg	250	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	140	6.2	mg/Kg	1	☼	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	38	6.2	mg/Kg	1	☼	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-7.5-C4 Lab Sample ID: 570-66942-6

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	22	15	mg/Kg	50	NWTPH-Gx	Total/NA
TPH as Diesel Range	1900	9.3	mg/Kg	1 ⊀	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	410	9.3	mg/Kg	1 ≾	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-C4 Lab Sample ID: 570-66942-7

Analyte	Result Qualifier	RL	Unit	Dil Fac [) Method	Prep Type
TPH as Gasoline (C4-C13)	170	53	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	740	8.2	mg/Kg	1 ₃	∷ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	240	8.2	mg/Kg	1 ₃	× NWTPH-Dx	Cleanup Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Cardno, Inc
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Client Sample ID: S-12.5-					Lab 3	ample ID: 5	10-003-42-
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	0.56		0.22	mg/Kg	1	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	7.4		6.7	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-2.5-C	6				Lab S	ample ID: 5	70-66942-
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	3.7		0.21	mg/Kg	1	NWTPH-Gx	Total/NA
TPH as Diesel Range	1800		29	mg/Kg	5	☼ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	1300		29	ma/Ka	5	∴ NWTPH-Dx	Cleanup
TEN as Motor Oil Range	1300		29	mg/Kg	5	☆ INWIFH-DX	Silica Gel Cleanup
Client Sample ID: S-5-C6					Lab Sa	mple ID: 57	<u> </u>
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	0.21		0.12	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	290		26	mg/Kg	•	∴ NWTPH-Dx	Silica Gel
g					_		Cleanup
TPH as Motor Oil Range - DL	1100		26	mg/Kg	5	∴ NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-7.5-C	6				Lab Sa	mple ID: 57	0-66942-1
Analyte		Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	94		12	mg/Kg	50	☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	2800		12	mg/Kg	2	☼ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	1300		12	mg/Kg	2	∴ NWTPH-Dx	Cleanup Silica Gel
Tras Motor Of Trange	1300		12	mg/rtg	2	* INVITILEDX	Cleanup
Client Sample ID: S-10-C	6				Lab Sa	mple ID: 57	0-66942-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	29		1.7	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	1200		25	mg/Kg	1		Silica Gel
ge	00		_0	9/. 19	•	,,	Cleanup
TPH as Motor Oil Range	520		25	mg/Kg	1	∴ NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-2.5-C	8				Lab Sa	mple ID: 57	0-66942-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	1.0		0.17	mg/Kg	1	NWTPH-Gx	Total/NA
TPH as Diesel Range	540		5.5	mg/Kg	1	∴ NWTPH-Dx	Silica Gel
			_				Cleanup
TPH as Motor Oil Range	160		5.5	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
							Cleanup
lient Sample ID: S-5-C8					Lab Sa	mple ID: 57	0-66942-1

This Detection Summary does not include radiochemical test results.

Result Qualifier

0.50

Analyte

TPH as Gasoline (C4-C13)

8/31/2021 (Rev. 1)

Prep Type

Total/NA

RL

0.34

Unit

mg/Kg

Dil Fac D Method

1 ☆ NWTPH-Gx

Client: Cardno, Inc
Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-C8

Analyte
Result Qualifier
RL
Unit
Dil Fac D Method
Prep Type

Analyte TPH as Gasoline (C4-C13)	Result Qualifier 2.6	RL 0.22	Unit		Method	Prep Type Total/NA
TPH as Diesel Range	53	6.0	mg/Kg		∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	29	6.0	mg/Kg	1	∴ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-C8 Lab Sample ID: 570-66942-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	840		88	mg/Kg	250	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	13000		78	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	4600		78	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-12.5-C8 Lab Sample ID: 570-66942-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	290		84	mg/Kg	250	✡	NWTPH-Gx	Total/NA
TPH as Diesel Range	4000		13	mg/Kg	2	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1400		13	mg/Kg	2	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-2.5-D9 Lab Sample ID: 570-66942-18

TPH as Gasoline (C4-C13) 0.32 0.21 mg/Kg TPH as Diesel Range 290 5.6 mg/Kg TPH as Motor Oil Range 120 5.6 mg/Kg	Dil Fac D Method Prep Type	I
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Client Sample ID: S-5-D9 Lab Sample ID: 570-66942-19

Analyte	Result Qualifier	RL	Unit	Dil Fac [Method	Prep Type
TPH as Gasoline (C4-C13)	1.3	0.23	mg/Kg	<u> </u>	NWTPH-Gx	Total/NA
TPH as Diesel Range	180	12	mg/Kg	2 🕏	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	620	12	mg/Kg	2 🛪	NWTPH-Dx	Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	1200	160	mg/Kg	500	□ NWTPH-Gx	Total/NA
TPH as Diesel Range	19000	340	mg/Kg	50	□ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	5900	340	mg/Kg	50	∴ NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-10-D9 Lab Sample ID: 570-66942-21

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	550	150	mg/Kg	250	□ NWTPH-Gx	Total/NA
TPH as Diesel Range	2700	56	mg/Kg	5	☼ NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

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12

14

0/04/0004 /Day 4

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-D	9 (Continu	ed)			Lab Sa	mple ID: 57	0-66942-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Motor Oil Range	1300		56	mg/Kg	5	□ NWTPH-Dx	Silica Gel
-							Cleanup
Client Sample ID: S-12.5-	D9				Lab Sa	mple ID: 57	0-66942-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	36		23	mg/Kg	20	NWTPH-Gx	Total/NA
TPH as Diesel Range	290		18	mg/Kg	1	⇔ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	190		18	mg/Kg	1 :	∴ NWTPH-Dx	Cleanup Silica Gel
	150		10	mg/rtg	1	ų itti ii bx	Cleanup
Client Sample ID: S-2.5-E	8				Lab Sa	mple ID: 57	0-66942-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	0.38		0.12	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	390		5.3	mg/Kg	1 :		Silica Gel
, and the second				0 0			Cleanup
TPH as Motor Oil Range	130		5.3	mg/Kg	1	□ NWTPH-Dx	Silica Gel
-							Cleanup
Client Sample ID: S-5-E8					Lab Sa	mple ID: 57	0-66942-2
- Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	210		110	mg/Kg	500	NWTPH-Gx	Total/NA
TPH as Diesel Range	940		34	mg/Kg	5	Ç NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	890		34	mg/Kg	5	∴ NWTPH-Dx	Silica Gel
							Cleanup
lient Sample ID: S-7.5-E	8				Lab Sa	mple ID: 57	0-66942-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	170		31	mg/Kg	250	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	14000		330	mg/Kg	50	□ NWTPH-Dx	Silica Gel
TDU 14 07 5			005			. ADACTE: -	Cleanup
TPH as Motor Oil Range - DL	3200		330	mg/Kg	50 -	⇔ NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-10-E	3				Lab Sa	mple ID: 57	0-66942-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	1300		120	mg/Kg	250	NWTPH-Gx	Total/NA

Client Sample ID: S-12.5-E8	Lab Sample ID: 570-66942-27

500

mg/Kg

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	280		78	mg/Kg	50	☼	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	6000		220	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	1900		220	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

7900

TPH as Motor Oil Range - DL

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Cleanup

Silica Gel Cleanup

50 ☼ NWTPH-Dx

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-D	7				Lab Sa	ample ID: 57	0-66942-28
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	63		14	mg/Kg	100		Total/NA
TPH as Diesel Range	4300		28	mg/Kg	5	☼ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	1900		28	mg/Kg	5	☼ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-5-D7					Lab Sa	ample ID: 57	0-66942-29
– Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	810		250	mg/Kg	1000	→ NWTPH-Gx	Total/NA
TPH as Diesel Range	29000		150	mg/Kg	25	☼ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	6900		150	mg/Kg	25	☼ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-7.5-D	7				Lab Sa	ample ID: 57	0-66942-30
 Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	350		40	mg/Kg	250	¬ NWTPH-Gx	Total/NA
TPH as Diesel Range	9200		120	mg/Kg	20	☼ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	3500		120	mg/Kg	20	☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-D7	7				Lab Sa	ample ID: 57	0-66942-31
– Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	650		77	mg/Kg	250	¬ NWTPH-Gx	Total/NA
TPH as Diesel Range	40000		150	mg/Kg	20	☼ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	7000		150	mg/Kg	20	☼ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-12.5-I	D7				Lab Sa	ample ID: 57	0-66942-32
– Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	13		1.8	mg/Kg		□ NWTPH-Gx	Total/NA
TPH as Diesel Range	420		26	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	160		26	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
<u> </u>							Cleanup
Client Sample ID: S-2.5-E	6				Lab Sa	ample ID: 57	0-66942-33
 Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Diesel Range	15000		67	mg/Kg	10		Silica Gel
							Cleanup
TPH as Motor Oil Range	2200		67	mg/Kg	10	☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-E6					Lab Sa	ample ID: 57	0-66942-34
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	710		78	mg/Kg	250	¬ NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	96000		740	mg/Kg	100	☼ NWTPH-Dx	Silica Gel
-				- -			Cleanup

This Detection Summary does not include radiochemical test results.

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-E6	(Continue	d)			Lab Sa	ample ID: 57	0-66942-34
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Motor Oil Range - DL	8700	<u> </u>	740	mg/Kg	100	→ NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-7.5-I	E6				Lab Sa	ample ID: 57	0-66942-35
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	620		33	mg/Kg	100	⇒ NWTPH-Gx	Total/NA
TPH as Diesel Range	3900		13	mg/Kg	2	☼ NWTPH-Dx	Silica Gel
-				0 0			Cleanup
TPH as Motor Oil Range	380		13	mg/Kg	2	☼ NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-10-E	6				Lab Sa	ample ID: 57	0-66942-36
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	570		84	mg/Kg	250	¬ NWTPH-Gx	Total/NA
TPH as Diesel Range	13000		79	mg/Kg	10	☼ NWTPH-Dx	Silica Gel
-							Cleanup
TPH as Motor Oil Range	1300		79	mg/Kg	10	☼ NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-12.5	-E6				Lab Sa	ample ID: 57	0-66942-37
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	250		51	mg/Kg	50	¬ NWTPH-Gx	Total/NA
TPH as Diesel Range	5100		17	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	550		17	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-2.5-I	D5				Lab Sa	ample ID: 57	0-66942-38
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	370		68	mg/Kg	250		Total/NA
TPH as Diesel Range	1600		6.9	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
TDLL on Motor Oil Dongs	F90		6.0	m = /1/ =	4	* NWTDLLD	Cleanup
TPH as Motor Oil Range	580		6.9	mg/Kg	ı	☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-D5	<u> </u>				Lah Sa	ample ID: 57	<u> </u>
Analyte		Qualifier	RL	Unit	Dil Fac	_	Prep Type
TPH as Gasoline (C4-C13)	470		83	mg/Kg		☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	18000		76	mg/Kg	10	☼ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	4600		76	mg/Kg	10		Cleanup Silica Gel
TETT as Motor Oil Name	4000		70	mg/kg	10	₩ INWIFII-DX	Cleanup
Client Sample ID: S-7.5-I	D5				Lab Sa	ample ID: 57	•
		0 115					
Analyte		Qualifier	RL	Unit		D Method	Prep Type
TPH as Gasoline (C4-C13)	81		30	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	3600		21	mg/Kg	1	☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	930		21	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
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This Detection Summary does not include radiochemical test results.

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Cleanup

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-D5	i				Lab Sa	mple ID: 57	0-66942-41
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	800		200	mg/Kg	250	NWTPH-Gx	Total/NA
TPH as Diesel Range	11000		170	mg/Kg	10	∵ NWTPH-Dx	Silica Gel
Ğ				0 0			Cleanup
TPH as Motor Oil Range	2400		170	mg/Kg	10	∵ NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-12.5-I	D 5				Lab Sa	mple ID: 57	0-66942-42
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	2.1		0.25	mg/Kg		NWTPH-Gx	Total/NA
Client Sample ID: S-2.5-E4	1				Lab Sa	mple ID: 57	0-66942-43
_							
Analyte		Qualifier	RL	Unit		Method	Prep Type
TPH as Gasoline (C4-C13)	270		27	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	4100		68	mg/Kg	10	∴ NWTPH-Dx	Silica Gel
TDU M-t O'' Door	1000		00		10	+ NIVA/TELLE	Cleanup
TPH as Motor Oil Range	1300		68	mg/Kg	10 ∃	∴ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-E4					Lah Sa	mple ID: 57	·
<u> </u>							
Analyte		Qualifier	RL	Unit		D Method	Prep Type
TPH as Gasoline (C4-C13)	25		18	mg/Kg	100		Total/NA
TPH as Diesel Range	1500		61	mg/Kg	10	∴ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	320		61	mg/Kg	10	∴ NWTPH-Dx	Cleanup Silica Gel
TETT as Motor Oil Range	320		O1	mg/kg	10	Ç INVVIFII-DX	Cleanup
Client Sample ID: S-7.5-E	4				Lab Sa	mple ID: 57	0-66942-45
Analyte	Pagult	Qualifier	RL	Unit	Dil Foo	D Method	Dron Tuno
TPH as Gasoline (C4-C13)	22	Quainier	5.6	<u> </u>	20		Total/NA
TPH as Diesel Range	13		6.9	mg/Kg		□ NWTPH-Dx	Silica Gel
TFTT as Diesel Range	13		0.9	mg/Kg	1 3	Ç INWIFII-DX	Cleanup
_ Client Sample ID: S-10-E4					Lab Sa	mple ID: 57	
<u>.</u>							
Analyte		Qualifier	RL	Unit		Method	Prep Type
TPH as Gasoline (C4-C13)	38		9.2	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	320		7.0	mg/Kg	1 -	∴ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	96		7.0	mg/Kg	1 :	∴ NWTPH-Dx	Cleanup Silica Gel
11 11 as Motor On Hange	30		7.0	mg/rvg	1 3	Y INVVIIII-DX	Cleanup
Client Sample ID: S-12.5-E	E 4				Lab Sa	mple ID: 57	
-		0	D:			•	
Analyte		Qualifier	RL	Unit		Method	Prep Type
TPH as Gasoline (C4-C13)	0.48		0.26	mg/Kg	1 1	⇔ NWTPH-Gx	Total/NA
Client Sample ID: S-2.5-D	3				Lab Sa	mple ID: 57	0-66942-48
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	260		23	mg/Kg	100		Total/NA
` '							

This Detection Summary does not include radiochemical test results.

Cleanup

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-D3	3 (Continu	ıed)			Lab Sa	mple ID: 57	0-66942-4
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Motor Oil Range	1400		59	mg/Kg	10	NWTPH-Dx	Silica Gel
							Cleanup
lient Sample ID: S-5-D3					Lab Sa	mple ID: 57	0-66942-4
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	1600		58	mg/Kg	250	NWTPH-Gx	Total/NA
TPH as Diesel Range	22000		300	mg/Kg	50	□ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	3900		300	mg/Kg	50	⇔ NWTPH-Dx	Silica Gel
							Cleanup
lient Sample ID: S-7.5-D3	3				Lab Sa	mple ID: 57	0-66942-5
Analyte	Result	Qualifier	RL	Unit		D Method	Prep Type
TPH as Gasoline (C4-C13)	68		27	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	560		66	mg/Kg	10	□ NWTPH-Dx	Silica Gel
TDI Las Matar Oil Dangs	2200		66	70 m /1/ m	10	□ NWTPH-Dx	Cleanup
TPH as Motor Oil Range	2200		66	mg/Kg	10	₩ INWIFH-DX	Silica Gel Cleanup
Client Sample ID: S-10-D3	1				Lab Sa	mple ID: 57	0-66942-5
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	86		24	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	390		65	mg/Kg		⇔ NWTPH-Dx	Silica Gel
G				0 0			Cleanup
TPH as Motor Oil Range	110		65	mg/Kg	10	⇔ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5-D)3				Lab Sa	mple ID: 57	0-66942-5
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	0.38		0.26	mg/Kg		NWTPH-Gx	Total/NA
Client Sample ID: S-2.5-E2	2				Lab Sa	mple ID: 57	0-66942-5
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	64		28	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	430		64	mg/Kg	10	⇔ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	240		64	mg/Kg	10	∴ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-E2					I ah Sa	mple ID: 57	
-						•	
Analyte		Qualifier	RL	Unit		D Method	Prep Type
TPH as Gasoline (C4-C13)	280		35	mg/Kg	100		Total/NA
TPH as Diesel Range	1000		63	mg/Kg	10	∴ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	200		63	mg/Kg	10	∴ NWTPH-Dx	Cleanup Silica Gel
The Motor On Hange	200		00	mg/rtg	10	φ 1 1111111111111111111111111111111	Cleanup
Client Sample ID: S-7.5-E2	2				Lab Sa	mple ID: 57	0-66942-5
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	280		26	mg/Kg	100		Total/NA
, ,				0 0			

This Detection Summary does not include radiochemical test results.

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-I	E2 (Continued)			Lab Sample ID: 57	70-66942-5
Analyte	Result Qualifie	er RL	Unit	Dil Fac D Method	Prep Type
TPH as Diesel Range	1500	6.5	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
					Cleanup
TPH as Motor Oil Range	95	6.5	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
					Cleanup
lient Sample ID: S-10-E	2			Lab Sample ID: 57	70-66942-5
Analyte	Result Qualifie	er RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	160	23	mg/Kg	100 ☆ NWTPH-Gx	Total/NA
TPH as Diesel Range	250	6.3	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
					Cleanup
TPH as Motor Oil Range	22	6.3	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
					Cleanup
lient Sample ID: S-12.5	-E2			Lab Sample ID: 57	70-66942-5
Analyte	Result Qualifie	er RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.36	0.34	mg/Kg	1	Total/NA
lient Sample ID: S-2.5-I	D1			Lab Sample ID: 57	70-66942-5
				·	
Analyte	Result Qualifie		Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	190	23	mg/Kg	100 🔅 NWTPH-Gx	Total/NA
ГРН as Diesel Range	390	13	mg/Kg	2 🌣 NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	440	13	mg/Kg	2 ☼ NWTPH-Dx	Cleanup Silica Gel
Ti Ti da Motor Oli Range	440	10	mg/ng	2 × 14W1111-DX	Cleanup
lient Sample ID: S-5-D1	1			Lab Sample ID: 57	70-66942-5
Analyte	Result Qualifie	er RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	26	20	mg/Kg	100 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	410	57	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel
3			3, 3		Cleanup
TPH as Motor Oil Range	94	57	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel
					Cleanup
lient Sample ID: S-7.5-l	D1			Lab Sample ID: 57	70-66942-6
Analyte	Result Qualifie	er RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	25	0.84	mg/Kg	1 ☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	5700	140	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel
					Cleanup
TPH as Motor Oil Range	1700	140	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel
					Cleanup
lient Sample ID: S-10-D	D1			Lab Sample ID: 57	70-66942-6
Analyte	Result Qualifie	er RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	160	85	mg/Kg	100 □ NWTPH-Gx	Total/NA
TPH as Diesel Range	400	14	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
-					Cleanup

This Detection Summary does not include radiochemical test results.

220

TPH as Motor Oil Range

1 ☼ NWTPH-Dx

14

mg/Kg

Cleanup

Silica Gel Cleanup

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5	-D1				Lab Sample ID: 57	70-66942-62
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.60		0.26	mg/Kg	1 🔅 NWTPH-Gx	Total/NA
Client Sample ID: S-2.5-0	G2				Lab Sample ID: 57	70-66942-63
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	240		23	mg/Kg	100 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	2200		12	mg/Kg	2 ☼ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	1100		12	mg/Kg	2 ☼ NWTPH-Dx	Cleanup Silica Gel
11 11 as Motor Oil Kange	1100		12	mg/Ng	2 × 14441111-0X	Cleanup
Client Sample ID: S-5-G2	2				Lab Sample ID: 57	70-66942-64
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	50		25	mg/Kg		Total/NA
TPH as Diesel Range	190		5.8	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	150		5.8	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-10-G	32				Lab Sample ID: 57	70-66942-66
Analyte		Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	3.6		0.21	mg/Kg	1 ☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	240		5.7	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	120		5.7	mg/Kg	1 ☼ NWTPH-Dx	Cleanup Silica Gel
	.20			9/. 19	ι η	Cleanup
Client Sample ID: S-12.5	-G2				Lab Sample ID: 57	70-66942-67
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	33		16	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-2.5-I	- 3				Lab Sample ID: 57	70-66942-68
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	300		25	mg/Kg	100 ☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	6500		61	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel
TPH as Motor Oil Pages	2500		61	mg/Kg	10 ☆ NWTPH-Dx	Cleanup
TPH as Motor Oil Range	2500		01	mg/Kg	10 ☼ NWIPH-DX	Silica Gel Cleanup
Client Sample ID: S-5-F3	}				Lab Sample ID: 57	
Analyte		Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	360	Qualifier	22	mg/Kg	100 × NWTPH-Gx	Total/NA
TPH as Diesel Range	1400		5.8	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
				פי ייפי		Olioa Ooi

This Detection Summary does not include radiochemical test results.

560

TPH as Motor Oil Range

5.8

mg/Kg

1 ☼ NWTPH-Dx

Cleanup

Silica Gel Cleanup

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-F	3				Lab Sa	am	ple ID: 57	0-66942-70
Analyte TPH as Motor Oil Range	19	Qualifier	6.2 ————————————————————————————————————	Unit mg/Kg		_	Method NWTPH-Dx	Prep Type Silica Gel Cleanup
Client Sample ID: S-12.5-	-F3				Lab Sa	am	ple ID: 57	0-66942-71
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	7.8		6.8	mg/Kg	1	☼	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-0	34				Lab Sa	am	ple ID: 57	0-66942-72
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	110		22	mg/Kg		_	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	2800		57	mg/Kg	10	₽	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range - DL	1400		57	mg/Kg	10	₩	NWTPH-Dx	Cleanup Silica Gel Cleanup
Client Sample ID: S-5-G4	,				Lab Sa	am	ple ID: 57	0-66942-73
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	250		24	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	250		6.3	mg/Kg	1		NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	130		6.3	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-0	34				Lab Sa	am	ple ID: 57	0-66942-74
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	12		4.3	mg/Kg	20	-	NWTPH-Gx	Total/NA
TPH as Diesel Range	12		6.1	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	77		6.1	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-G	4				Lab Sa	am	ple ID: 57	0-66942-75
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	96		21	mg/Kg	100	<u></u>	NWTPH-Gx	Total/NA
TPH as Diesel Range	68		5.7	mg/Kg			NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	150		5.7	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5-	-G4				Lab Sa	am	ple ID: 57	0-66942-76
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	100		20	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-F	5				Lab Sa	am	ple ID: 57	0-66942-77
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	310		28	mg/Kg	100	_	NWTPH-Gx	Total/NA
TPH as Diesel Range								

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Cleanup

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-F	5 (Continu	ed)			Lab Sar	mple ID: 57	0-66942-77
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range	270		6.7	mg/Kg	1 ÷	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-F5					Lab Sar	mple ID: 57	0-66942-78
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1300		39	mg/Kg	100 🕏	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	76000		410	mg/Kg	50 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	6200		410	mg/Kg	50 ≎	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-F	5				Lab Sar	mple ID: 57	0-66942-79
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D) Method	Prep Type
TPH as Gasoline (C4-C13)	1400		79	mg/Kg	100 🕏	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	20000		110	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	2000		110	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-F	5				Lab Sar	mple ID: 57	0-66942-80
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	870		110	mg/Kg	100 🕏	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	21000		140	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	2100		140	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5-	F5				Lab Sar	mple ID: 57	0-66942-81
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.8		0.93	mg/Kg		NWTPH-Gx	Total/NA
TPH as Motor Oil Range	46		16	mg/Kg	1 ≎	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-G	66				Lab Sar	mple ID: 57	0-66942-82
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	280		29	mg/Kg	100 🕏	NWTPH-Gx	Total/NA
TPH as Diesel Range	1700		13	mg/Kg	2 ≎	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	530		13	mg/Kg	2 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-G6					Lab Sar	mple ID: 57	0-66942-83
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D) Method	Prep Type
TPH as Gasoline (C4-C13)	260		25	mg/Kg	100 🕏	NWTPH-Gx	Total/NA
TPH as Diesel Range	1100		12	mg/Kg	2 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	350		12	mg/Kg	2 ≎	NWTPH-Dx	Silica Gel

This Detection Summary does not include radiochemical test results.

Cleanup

Client: Cardno, Inc
Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-G6

Lab Sample ID: 570-66942-84

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	170	26	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	1800	13	mg/Kg	2	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	610	13	mg/Kg	2	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-G6 Lab Sample ID: 570-66942-85

Analyte	Result Q	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	240		26	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	670		6.8	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	150		6.8	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-12.5-G6 Lab Sample ID: 570-66942-86

Analyte	Result Qualifier	RL	Unit	Dil Fac I	O Method	Prep Type
TPH as Gasoline (C4-C13)	170	26	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	590	6.9	mg/Kg	1 -3	∷ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	120	6.9	mg/Kg	1 3	∷ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-2.5-F7 Lab Sample ID: 570-66942-87

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	66	28	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	160	6.3	mg/Kg	1	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	110	6.3	mg/Kg	1	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-F7 Lab Sample ID: 570-66942-88

Analyte	Result Qu	alifier RL	Unit	Dil Fac [Method	Prep Type
TPH as Gasoline (C4-C13)	540	70	mg/Kg	250	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	32000	350	mg/Kg	50 ≾	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	5800	350	mg/Kg	50 ≾	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-7.5-F7 Lab Sample ID: 570-66942-89

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	340		26	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL2	65000		320	mg/Kg	50	₩	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range - DL2	15000		320	mg/Kg	50	₩	NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-10-F7 Lab Sample ID: 570-66942-90

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	330	27	mg/Kg	100	☼	NWTPH-Gx	Total/NA
TPH as Diesel Range	1400	6.8	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

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3

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8

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1 1

13

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-F	7 (Continued)			Lab Sample ID: 57	70-66942-9
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	320	6.8	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5	-F7			Lab Sample ID: 57	70-66942-9
- Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)		1.5	mg/Kg	1 × NWTPH-Gx	Total/NA
TPH as Diesel Range	480	24	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
					Cleanup
TPH as Motor Oil Range	170	24	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-	G8			Lab Sample ID: 57	·
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	120	26	mg/Kg	100 × NWTPH-Gx	Total/NA
TPH as Diesel Range	380	5.9	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
		0.0	9/13		Cleanup
TPH as Motor Oil Range	27	5.9	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
					Cleanup
lient Sample ID: S-5-G	3			Lab Sample ID: 57	70-66942-9
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	230	22	mg/Kg	100 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	350	5.9	mg/Kg	1 🌣 NWTPH-Dx	Silica Gel
					Cleanup
TPH as Motor Oil Range	30	5.9	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-	G8			Lab Sample ID: 57	70-66942-9
- Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1400 Qualifier _	120	mg/Kg	500 × NWTPH-Gx	Total/NA
TPH as Diesel Range	5000	33	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
		30	9/13	• ··· · · · · · · · · · · · · · · · · ·	Cleanup
TPH as Motor Oil Range	960	33	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
					Cleanup
lient Sample ID: S-10-0	38			Lab Sample ID: 57	70-66942-9
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1400	140	mg/Kg	500 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	2700	33	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
TDU N. 075				, 	Cleanup
TPH as Motor Oil Range	550	33	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5	-G8			Lab Sample ID: 57	
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TDU (04.040)	Qualifier	100		- In tac D Method	T top type

This Detection Summary does not include radiochemical test results.

2400

12000

2900

TPH as Gasoline (C4-C13)

TPH as Diesel Range

TPH as Motor Oil Range

Eurofins Calscience LLC

100 ☼ NWTPH-Gx

5 ☼ NWTPH-Dx

5 ☼ NWTPH-Dx

130

95

95

mg/Kg

mg/Kg

mg/Kg

Total/NA

Silica Gel Cleanup

Silica Gel Cleanup Client: Cardno, Inc Job ID: 570-66942-1 Project/Site: ExxonMobil ADC / 0314476040 Client Sample ID: S-2.5-F9 Lab Sample ID: 570-66942-97

Analyte	Result Qualifier	RL	Unit	Dil Fac	D N	Method	Prep Type
TPH as Gasoline (C4-C13)		4.2	mg/Kg		<u></u>	NWTPH-Gx	Total/NA
TPH as Diesel Range	140	5.5	mg/Kg	1	⇔ N	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	7.9	5.5	mg/Kg	1	⇔ N	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-F9	Lab Sample ID: 570-66942-98

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	510	64	mg/Kg	250	NWTPH-Gx	Total/NA
TPH as Diesel Range	12000	120	mg/Kg	20	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	7000	120	mg/Kg	20	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-7.5-F9 Lab Sample ID: 570-66942-99

Analyte	Result C	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	200		30	mg/Kg	100	☼	NWTPH-Gx	Total/NA
TPH as Diesel Range	630		7.3	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	190		7.3	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-F9 Lab Sample ID: 570-66942-100

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	260	36	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	16000	54	mg/Kg	5	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	5400	54	mg/Kg	5	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-12.5-F9 Lab Sample ID: 570-66942-101

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.4	1.6	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	270	23	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	210	23	mg/Kg	1 ☆	NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-2.5-F9 DUP Lab Sample ID: 570-66942-102

Analyte	Result Qualifier	RL	Unit	Dil Fac I) Method	Prep Type
TPH as Gasoline (C4-C13)	 	4.2	mg/Kg	20	NWTPH-Gx	Total/NA
TPH as Diesel Range	120	5.6	mg/Kg	1 -3	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-2.5-I8 Lab Sample ID: 570-66942-103

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	710	27	mg/Kg	100		Total/NA
TPH as Diesel Range	6900	56	mg/Kg	10	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1700	56	mg/Kg	10	⇔ NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

8/31/2021 (Rev. 1)

Detection Summary Client: Cardno, Inc Job ID: 570-66942-1 Project/Site: ExxonMobil ADC / 0314476040 Client Sample ID: S-5-I8 Lab Sample ID: 570-66942-104 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 500 ☼ NWTPH-Gx 2100 130 mg/Kg Total/NA 8300 5 ☼ NWTPH-Dx TPH as Diesel Range 30 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 1500 30 mg/Kg 5 ☼ NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-7.5-I8 Lab Sample ID: 570-66942-105 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 57 16 100

□ NWTPH-Gx mg/Kg Total/NA TPH as Diesel Range 1100 6.3 mg/Kg 1 🌣 NWTPH-Dx Silica Gel Cleanup TPH as Motor Oil Range 280 6.3 1 ☼ NWTPH-Dx mg/Kg Silica Gel Cleanup Lab Sample ID: 570-66942-106

Client Sample ID: S-10-I8

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	1400	36	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	4300	19	mg/Kg	2	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1800	19	mg/Kg	2	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-12.5-I8 Lab Sample ID: 570-66942-107

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	1000	180	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	10000	44	mg/Kg	2	∵ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	5600	44	mg/Kg	2	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-2.5-H7 Lab Sample ID: 570-66942-108

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	170	20	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	6500	28	mg/Kg	5	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	3100	28	mg/Kg	5	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-H7 Lab Sample ID: 570-66942-109

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	370	23	mg/Kg	100	□ NWTPH-Gx	Total/NA
TPH as Diesel Range	15000	150	mg/Kg	25	□ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	3900	150	mg/Kg	25	∴ NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-7.5-H7 Lab Sample ID: 570-66942-110

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	290	28	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	1200	6.7	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-H7 (Continued)	Lab Sample ID: 570-66942-110

Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	500	6.7	mg/Kg	1	Silica Gel Cleanup

Client Sample ID: S-10-H7 Lab Sample ID: 570-66942-111

Analyte TPH as Gasoline (C4-C13)	Result Qualifier	RL 30	Unit mg/Kg		Method NWTPH-Gx	Prep Type Total/NA
TPH as Diesel Range	770	6.8	mg/Kg		⇔ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	360	6.8	mg/Kg	1	⇔ NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-12.5-H7 Lab Sample ID: 570-66942-112

Analyte	Result Qualifier	RL	Unit	Dil Fac) Method	Prep Type
TPH as Gasoline (C4-C13)	38	14	mg/Kg	50	NWTPH-Gx	Total/NA
TPH as Diesel Range	230	7.6	mg/Kg	1	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	110	7.6	mg/Kg	1	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-2.5-I6 Lab Sample ID: 570-66942-113

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	140		20	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	780		6.1	mg/Kg	1	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	450		6.1	mg/Kg	1	∵ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-I6 Lab Sample ID: 570-66942-114

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	380	22	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	3500	63	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	800	63	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-7.5-I6 Lab Sample ID: 570-66942-115

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	470	32	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	1100	6.6	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	450	6.6	mg/Kg	1	☼	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-I6 Lab Sample ID: 570-66942-116

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	300	31	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	1000	7.2	mg/Kg	1	□ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	320	7.2	mg/Kg	1	⇔ NWTPH-Dx	Cleanup Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

8/31/2021 (Rev. 1)

Client: Cardno, Inc Job ID: 570-66942-1 Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-I6	Lab Sample ID: 570-66942-117

Analyte	Result Qualit	fier RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	69	26	mg/Kg	100	✡	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	14	6.5	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-2.5-J7 Lab Sample ID: 570-66942-118

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	60	18	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	6700	140	mg/Kg	25	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	5900	140	mg/Kg	25	∷ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-J7 Lab Sample ID: 570-66942-119

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	480	30	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	470	6.4	mg/Kg	1	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	170	6.4	mg/Kg	1	∵ NWTPH-Dx	Silica Gel Cleanup

Lab Sample ID: 570-66942-120 Client Sample ID: S-7.5-J7

Analyte	Result (Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	700		30	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	830		6.3	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	160		6.3	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-J7 Lab Sample ID: 570-66942-121

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2200	390	mg/Kg	1000	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	10000	86	mg/Kg	10	₩	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	1400	86	mg/Kg	10	≎	NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-12.5-J7 Lab Sample ID: 570-66942-122

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	910	52	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	730	9.8	mg/Kg	1	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	180	9.8	mg/Kg	1	· NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-14.5-I6 Lab Sample ID: 570-66942-123

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.5	2.7	mg/Kg		NWTPH-Gx	Total/NA
TPH as Motor Oil Range	50	24	mg/Kg	1 ≎	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Cardno, Inc
Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-J5

Lab Sample ID: 570-66942-124

Analyte TPH as Gasoline (C4-C13) TPH as Diesel Range TPH as Motor Oil Range	Result Qualifier 390 7800 2800	23 28 28	mg/Kg mg/Kg mg/Kg	100	Method NWTPH-Gx NWTPH-Dx NWTPH-Dx	Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup
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Client Sample ID: S-5-J5 Lab Sample ID: 570-66942-125

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	2100	220	mg/Kg	1000	□ NWTPH-Gx	Total/NA
TPH as Diesel Range	55000	270	mg/Kg	50	☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	8200	270	mg/Kg	50	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-7.5-J5 Lab Sample ID: 570-66942-126

Analyte	Result Qualifier	RL	Unit	Dil Fac [Method	Prep Type
TPH as Gasoline (C4-C13)	1200	220	mg/Kg	1000	NWTPH-Gx	Total/NA
TPH as Diesel Range	7800	29	mg/Kg	5 ×	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1400	29	mg/Kg	5 ×	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-J5 Lab Sample ID: 570-66942-127

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	97	29	mg/Kg	100	☼	NWTPH-Gx	Total/NA
TPH as Diesel Range	13	6.8	mg/Kg	1	☼∣	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	12	6.8	mg/Kg	1	☼∣	NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-12.5-J5 Lab Sample ID: 570-66942-128

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	63	29	mg/Kg	50	NWTPH-Gx	Total/NA
TPH as Diesel Range	120	12	mg/Kg	1	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	51	12	mg/Kg	1	∴ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-2.5-H5 Lab Sample ID: 570-66942-129

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	480	26	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	1400	13	mg/Kg	2	∴ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	780	13	mg/Kg	2	: NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-5-H5 Lab Sample ID: 570-66942-130

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	650	25	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	4900	55	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

8/31/2021 (Rev. 1)

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-	H5 (Continued)			Lab Sample ID: 57	0-66942-130
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range	1300	55	mg/Kg	10 🌣	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-7.5-H5 Lab Sample ID: 570-66942-131

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	320	20	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	380	7.1	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	120	7.1	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-H5 Lab Sample ID: 570-66942-132

Analyte Result Qualifier RL TPH as Gasoline (C4-C13) 140 13 TPH as Diesel Range 1300 29 TPH as Motor Oil Range 410 29	mg/Kg mg/Kg mg/Kg	5 ☆	NWTPH-Gx NWTPH-Dx NWTPH-Dx	Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup
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Client Sample ID: S-12.5-H5 Lab Sample ID: 570-66942-133

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	9.2	3.7	mg/Kg	20 🌣	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	36	7.6	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-14.5-H5

Analyte	Result Qualifier	RL	Unit	Dil Fac [) Method	Prep Type
TPH as Gasoline (C4-C13)	63	17	mg/Kg	20	NWTPH-Gx	Total/NA
TPH as Diesel Range	200	14	mg/Kg	1 ₹	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	62	14	mg/Kg	1 ⊰	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-D5 DUP Lab Sample ID: 570-66942-135

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	300	26	mg/Kg	100	□ NWTPH-Gx	Total/NA
TPH as Diesel Range	4000	33	mg/Kg	5	□ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	1400	33	mg/Kg	5	⇔ NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-10-E4 DUP Lab Sample ID: 570-66942-136

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	140	51	mg/Kg	100	☼	NWTPH-Gx	Total/NA
TPH as Diesel Range	42	7.1	mg/Kg	1	₩	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	34	7.1	mg/Kg	1	₽	NWTPH-Dx	Cleanup Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

8/31/2021 (Rev. 1)

Lab Sample ID: 570-66942-134

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sam	ple ID:	S-10-D1	DUP
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Lab Sample ID: 570-66942-137

Analyte TPH as Gasoline (C4	-C13)	Result	Qualifier	RL 69	Unit mg/Kg		_	Method NWTPH-Gx	Prep Type Total/NA
TPH as Diesel Range	,	170		10	mg/Kg			NWTPH-Dx	Silica Gel
TPH as Motor Oil Rai	nge	72		10	mg/Kg	1	₩	NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-10-F9 DUP

Lab Sample ID: 570-66942-138

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	470	59	mg/Kg	100	□ NWTPH-Gx	Total/NA
TPH as Diesel Range	13000	200	mg/Kg	10	☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	5300	200	mg/Kg	10	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-J5 DUP

Lab Sample ID: 570-66942-139

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1600		100	mg/Kg	500	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	59000		540	mg/Kg	100	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	8200		540	mg/Kg	100	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-H5 DUP

Lab Sample ID: 570-66942-140

Analyte	Result Qua	lifier RL	Unit	Dil Fac I) Method	Prep Type
TPH as Gasoline (C4-C13)	530	48	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	1400	32	mg/Kg	5 ⊰	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	350	32	mg/Kg	5 ∃	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-7.5-H7 DUP

Lab Sample ID: 570-66942-141

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	330	31	mg/Kg	100	☼	NWTPH-Gx	Total/NA
TPH as Diesel Range	140	6.7	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	82	6.7	mg/Kg	1	≎	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-5-C2 Lab Sample ID: 570-66942-1

Date Collected: 08/09/21 09:35

Date Received: 08/12/21 10:15

Matrix: Solid

Method: NWTPH-Gx - Norti	hwest - Volatile	Petroleur	n Products (G	C)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.57		0.24	mg/Kg	*	08/16/21 13:38	08/17/21 16:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150			08/16/21 13:38	08/17/21 16:14	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		29	mg/Kg	<u></u>	08/20/21 16:19	08/26/21 12:34	5
TPH as Motor Oil Range	500		29	mg/Kg	₩	08/20/21 16:19	08/26/21 12:34	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		50 - 150			08/20/21 16:19	08/26/21 12:34	5

Client Sample ID: S-7.5-C2

Date Collected: 08/09/21 09:40

Lab Sample ID: 570-66942-2

Matrix: Solid

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		1.3	mg/Kg	*	08/16/21 13:37	08/20/21 18:50	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150			08/16/21 13:37	08/20/21 18:50	20

Method: NWTPH-Dx - Nort	thwest - Semi-Volatile Pe	etroleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1700	6.0	mg/Kg	₽	08/20/21 16:19	08/24/21 16:33	1
TPH as Motor Oil Range	660	6.0	mg/Kg	₩	08/20/21 16:19	08/24/21 16:33	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116	50 - 150			08/20/21 16:19	08/24/21 16:33	1

Client Sample ID: S-10-C2

Date Collected: 08/09/21 09:45

Lab Sample ID: 570-66942-3

Matrix: Solid

Date Collected: 08/09/21 09:45 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - North	west - Volatile Petrolei	ım Products (GC	>)			
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.3	0.15	mg/Kg	© 08/16/21 13:3	8 08/17/21 17:25	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	50 - 150		08/16/21 13:3	8 08/17/21 17:25	1

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	27		6.8	mg/Kg	<u></u>	08/20/21 16:19	08/24/21 16:54	1
TPH as Motor Oil Range	20		6.8	mg/Kg	☼	08/20/21 16:19	08/24/21 16:54	1
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared	Analyzed 08/24/21 16:54	Dil Fac

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-C2

Date Collected: 08/09/21 09:50 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-4

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest - Volatile Po	Petroleum Products (GC)
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Analyte	Result Qualif	ner RL	Unit	D	Prepared	Analyzed	DII Fac
TPH as Gasoline (C4-C13)	85	37	mg/Kg	<u></u>	08/16/21 13:37	08/19/21 22:50	250
Surrogate	%Recovery Qualif	fier Limits			Prepared	Analyzed	Dil Fac

50 - 150 08/16/21 13:37 08/19/21 22:50 4-Bromofluorobenzene (Surr) 67

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	98	6.8	mg/Kg	<u></u>	08/20/21 16:19	08/24/21 17:15	1
TPH as Motor Oil Range	42	6.8	mg/Kg	₽	08/20/21 16:19	08/24/21 17:15	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

114 08/20/21 16:19 08/24/21 17:15 n-Octacosane (Surr) 50 - 150

Client Sample ID: S-5-C4 Lab Sample ID: 570-66942-5 **Matrix: Solid**

Date Collected: 08/09/21 09:55 Date Received: 08/12/21 10:15

Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoli	ne (C4-C13)	760		53	mg/Kg	⊅	08/16/21 13:37	08/19/21 06:27	250
0	0	/Danassans	O	I imaida			Duamanad	A a la a al	D:// E

Surrogate Prepared %Recovery Qualifier Limits Analyzed 4-Bromofluorobenzene (Surr) 75 50 - 150 08/16/21 13:37 08/19/21 06:27 250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

modification in BX moraling		olutilo i ot	. Olouilli i Touu	oto (GG) Gillou	- 0. •	riouriap		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	140		6.2	mg/Kg	<u></u>	08/20/21 16:19	08/24/21 17:37	1
TPH as Motor Oil Range	38		6.2	mg/Kg	☼	08/20/21 16:19	08/24/21 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		50 - 150			08/20/21 16:19	08/24/21 17:37	1

Client Sample ID: S-7.5-C4 Lab Sample ID: 570-66942-6

Date Collected: 08/09/21 10:00 **Matrix: Solid**

Date Received: 08/12/21 10:15

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Made all NIMTDII On Nightlernant	- Volatile Petroleum Products (GC)
MOTOOT NIVITED A NOTTOWAST	- Volatile Petrolelim Products (1-1.)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	22	15	mg/Kg	☼	08/16/21 13:37	08/20/21 19:14	50
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84	50 - 150			08/16/21 13:37	08/20/21 19:14	50

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1900		9.3	mg/Kg	₩	08/20/21 16:19	08/24/21 17:58	1
TPH as Motor Oil Range	410		9.3	mg/Kg	₩	08/20/21 16:19	08/24/21 17:58	1
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 110 50 - 150 08/20/21 16:19 08/24/21 17:58 Client Sample ID: S-10-C4

Date Collected: 08/09/21 10:05 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-7

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - North	nwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	170		53	mg/Kg	— -	08/16/21 13:37	08/23/21 15:35	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		50 - 150			08/16/21 13:37	08/23/21 15:35	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	740		8.2	mg/Kg	<u></u>	08/20/21 16:19	08/24/21 18:19	1
TPH as Motor Oil Range	240		8.2	mg/Kg	₩	08/20/21 16:19	08/24/21 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116		50 - 150			08/20/21 16:19	08/24/21 18:19	1

Lab Sample ID: 570-66942-8 Client Sample ID: S-12.5-C4 Date Collected: 08/09/21 10:10 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.56 0.22 mg/Kg © 08/16/21 13:38 08/17/21 20:10 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 66 50 - 150 08/16/21 13:38 08/17/21 20:10

Method: NWTPH-Dx - Norti	hwest - Semi-V	olatile Pet	roleum Produ	ucts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.7	mg/Kg	<u></u>	08/20/21 16:19	08/24/21 18:41	1
TPH as Motor Oil Range	7.4		6.7	mg/Kg	☼	08/20/21 16:19	08/24/21 18:41	1
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/20/21 16:19	Analyzed 08/24/21 18:41	Dil Fac

Client Sample ID: S-2.5-C6 Lab Sample ID: 570-66942-9 **Matrix: Solid**

Date Collected: 08/09/21 10:40 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Norti	hwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3.7		0.21	mg/Kg	₩	08/16/21 13:38	08/17/21 20:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150			08/16/21 13:38	08/17/21 20:33	1
_								

Analyte		Qualifier	RL	ts (GC) - Silica Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1800		29	mg/Kg	<u></u>	08/20/21 16:19	08/24/21 19:02	5
TPH as Motor Oil Range	1300		29	mg/Kg	☼	08/20/21 16:19	08/24/21 19:02	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	153	S1+	50 - 150			08/20/21 16:19	08/24/21 19:02	5

Client Sample ID: S-5-C6 Lab Sample ID: 570-66942-10

Date Collected: 08/09/21 11:00 Date Received: 08/12/21 10:15

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gy -	Northwest .	Volatile Petroleum	Products (GC)

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.21	0.12	mg/Kg	₩	08/16/21 13:38	08/18/21 14:02	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 54 50 - 150 08/16/21 13:38 08/18/21 14:02 4-Bromofluorobenzene (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	290	26	mg/Kg	<u></u>	08/20/21 16:19	08/30/21 15:43	5
TPH as Motor Oil Range	1100	26	mg/Kg	☼	08/20/21 16:19	08/30/21 15:43	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

08/20/21 16:19 08/30/21 15:43 n-Octacosane (Surr) 50 - 150 89

Client Sample ID: S-7.5-C6 Lab Sample ID: 570-66942-11 Date Collected: 08/09/21 10:50

Date Received: 08/12/21 10:15

Matrix: Solid

<u>08/20/21 16:19</u> <u>08/24/21 20:29</u>

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	94	12	mg/Kg	₩	08/16/21 13:37	08/18/21 16:23	50

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 50 - 150 08/16/21 13:37 08/18/21 16:23

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

moundarities and moralities		olouill i loudo	(OO) Oou	•••	- iouiiup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2800	12	mg/Kg	— <u>—</u>	08/20/21 16:19	08/24/21 20:29	2
TPH as Motor Oil Range	1300	12	mg/Kg	≎	08/20/21 16:19	08/24/21 20:29	2
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: S-10-C6 Lab Sample ID: 570-66942-12 **Matrix: Solid**

50 - 150

Date Collected: 08/09/21 11:05

n-Octacosane (Surr)

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

129

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	29	1.7	mg/Kg	☆	08/16/21 13:38	08/17/21 21:44	1

%Recovery Qualifier Dil Fac Surrogate I imits Prepared Analyzed 08/16/21 13:38 08/17/21 21:44 4-Bromofluorobenzene (Surr) 50 - 150 72

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1200		25	mg/Kg		08/20/21 16:19	08/24/21 20:51	1
TPH as Motor Oil Range	520		25	mg/Kg	☼	08/20/21 16:19	08/24/21 20:51	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 130 50 - 150 08/20/21 16:19 08/24/21 20:51

Lab Sample ID: 570-66942-13 **Client Sample ID: S-2.5-C8**

Date Collected: 08/09/21 11:35 Date Received: 08/12/21 10:15

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - North	nwest - Volatile	Petroleur	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.0		0.17	mg/Kg	₩	08/16/21 13:38	08/17/21 22:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Bromofluorobenzene (Surr)	80		50 150			08/16/21 13:38	08/17/21 22:08	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	540		5.5	mg/Kg	<u></u>	08/20/21 16:19	08/24/21 21:12	1
TPH as Motor Oil Range	160		5.5	mg/Kg	₩	08/20/21 16:19	08/24/21 21:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150			08/20/21 16:19	08/24/21 21:12	1

Client Sample ID: S-5-C8 Lab Sample ID: 570-66942-14

Date Collected: 08/09/21 11:40 **Matrix: Solid** Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.50		0.34	mg/Kg	<u></u>	08/16/21 13:38	08/17/21 22:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	<u> </u>		50 - 150			08/16/21 13:38	08/17/21 22:31	1

	Method: NWTPH-Dx - Northy	vest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
١	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	TPH as Diesel Range	ND		7.3	mg/Kg	*	08/20/21 16:19	08/24/21 21:34	1
	TPH as Motor Oil Range	ND		7.3	mg/Kg	₩	08/20/21 16:19	08/24/21 21:34	1
	Surrogate n-Octacosane (Surr)		Qualifier	Limits 50 - 150			Prepared 08/20/21 16:19	Analyzed 08/24/21 21:34	Dil Fac

Lab Sample ID: 570-66942-15 Client Sample ID: S-7.5-C8 **Matrix: Solid**

Date Collected: 08/09/21 11:45 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)									
Analyte	Result Qualifier	RL	Unit	D Prepare	l Analyzed	Dil Fac			
TPH as Gasoline (C4-C13)	2.6	0.22	mg/Kg	□ □ □ 08/16/21 13	:38 08/17/21 22:55	1			
Surrogate	%Recovery Qualifier	Limits		Prepare	l Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	79	50 - 150		08/16/21 13	:38 08/17/21 22:55	1			

Method: NWTPH-Dx - North	thwest - Semi-Volatile	Petroleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifi	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	53	6.0	mg/Kg	☼	08/20/21 16:19	08/24/21 21:55	1
TPH as Motor Oil Range	29	6.0	mg/Kg	☼	08/20/21 16:19	08/24/21 21:55	1
Surrogate	%Recovery Qualifi	ier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110	50 - 150			08/20/21 16:19	08/24/21 21:55	1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-C8

Date Collected: 08/09/21 11:50 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-16

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - North	west - Volatile Petroleum F	Products (GC)
Analyte	Result Qualifier	RL

Unit D Prepared Analyzed Dil Fac 08/16/21 13:37 840 88 mg/Kg 08/19/21 06:51 250 TPH as Gasoline (C4-C13)

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 08/16/21 13:37 08/19/21 06:51 250 76

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 13000 78 mg/Kg 08/20/21 16:19 08/24/21 22:17 10 78 mg/Kg 08/20/21 16:19 08/24/21 22:17 10 **TPH as Motor Oil Range** 4600

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 153 S1+ 08/20/21 16:19 08/24/21 22:17 n-Octacosane (Surr) 50 - 150

Client Sample ID: S-12.5-C8 Lab Sample ID: 570-66942-17 Date Collected: 08/09/21 11:55 Matrix: Solid

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 290 mg/Kg 08/16/21 13:37 08/19/21 10:52 250

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 64 50 - 150 08/16/21 13:37 08/19/21 10:52 250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 4000 13 mg/Kg 08/20/21 16:19 08/24/21 22:39 2 **TPH as Motor Oil Range** 1400 13 mg/Kg 08/20/21 16:19 08/24/21 22:39 2 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac

Client Sample ID: S-2.5-D9 Lab Sample ID: 570-66942-18

50 - 150

Date Collected: 08/09/21 12:00

Date Received: 08/12/21 10:15

n-Octacosane (Surr)

117

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.32 0.21 mg/Kg 08/16/21 13:38 08/18/21 14:25

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 50 - 150 08/16/21 13:38 08/18/21 14:25 4-Bromofluorobenzene (Surr) 85

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RLUnit Prepared Analyzed Dil Fac 290 5.6 mg/Kg 08/20/21 16:19 08/24/21 23:01 **TPH as Diesel Range** 5.6 08/20/21 16:19 08/24/21 23:01 **TPH as Motor Oil Range** 120 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/20/21 16:19 08/24/21 23:01 110

08/20/21 16:19 08/24/21 22:39

Matrix: Solid

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-D9

Date Collected: 08/09/21 12:05

Date Collected: 08/09/21 12:05
Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-19

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest	 Volatile Petroleum 	Products (GC)
Analyte	Result Qualifier	RL

 Analyte
 Result TPH as Gasoline (C4-C13)
 Qualifier RL 0.23
 RL mg/Kg
 Unit mg/Kg
 D mg/Kg
 Prepared 0.21 13:38
 Analyzed 08/18/21 14:49
 Dil Fac 08/16/21 13:38

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 80
 Limits 50 - 150
 Prepared 08/16/21 13:38
 Analyzed 08/18/21 14:49
 Dil Fac 08/16/21 13:38

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 180 12 mg/Kg 08/20/21 16:19 08/24/21 23:22 12 mg/Kg 08/20/21 16:19 08/24/21 23:22 2 **TPH as Motor Oil Range** 620

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared 08/20/21 16:19
 Analyzed 08/24/21 23:22
 Dil Fac 08/20/21 16:19

Client Sample ID: S-7.5-D9 Lab Sar

Date Collected: 08/09/21 12:10 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-20

08/20/21 16:19 08/25/21 13:09

Matrix: Solid

50

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

 Analyte
 Result TPH as Gasoline (C4-C13)
 Qualifier Qualifier RL 160
 RL mg/Kg
 Unit mg/Kg
 D mg/Kg
 Prepared Prepared 08/16/21 13:37
 Analyzed 08/19/21 04:53
 Dil Fac 08/16/21 13:37

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 70
 50 - 150
 08/16/21 13:37
 08/19/21 04:53
 500

 ${\bf Method:\ NWTPH-Dx\ -\ Northwest\ -\ Semi-Volatile\ Petroleum\ Products\ (GC)\ -\ Silica\ Gel\ Cleanup}$

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 19000 340 mg/Kg 08/20/21 16:19 08/25/21 13:09 50 **TPH as Motor Oil Range** 5900 340 mg/Kg 08/20/21 16:19 08/25/21 13:09 50 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac

Client Sample ID: S-10-D9

Lab Sample ID: 570-66942-21

50 - 150

Date Collected: 08/09/21 12:15

140

Date Received: 08/12/21 10:15

n-Octacosane (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

 Analyte
 Result TPH as Gasoline (C4-C13)
 Qualifier S50
 RL mg/Kg
 Unit mg/Kg
 D mg/Kg
 Prepared with mg/Kg 08/16/21 13:37
 Analyzed Manalyzed 08/19/21 10:29
 Dil Fac 250

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 50 - 150
 Limits 708/16/21 13:37
 Prepared 98/16/21 13:37
 Analyzed 08/19/21 10:29
 Dil Fac 08/16/21 13:37

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RLUnit Prepared Analyzed Dil Fac 2700 56 mg/Kg 08/20/21 16:23 08/25/21 03:02 5 **TPH as Diesel Range** 56 08/20/21 16:23 08/25/21 03:02 **TPH as Motor Oil Range** 1300 mg/Kg 5

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared 08/20/21 16:23
 Analyzed 08/25/21 03:02
 Dil Fac 08/20/21 16:23

Client Sample ID: S-12.5-D9

Lab Sample ID: 570-66942-22 Date Collected: 08/09/21 12:20 **Matrix: Solid**

Date Received: 08/12/21 10:15

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	36	23	mg/Kg	⊅	08/16/21 13:37	08/18/21 18:21	20
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

50 - 150 08/16/21 13:37 08/18/21 18:21 4-Bromofluorobenzene (Surr) 67

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	290	18	mg/Kg	<u></u>	08/20/21 16:23	08/25/21 04:06	1
TPH as Motor Oil Range	190	18	mg/Kg	₩	08/20/21 16:23	08/25/21 04:06	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123	50 - 150			08/20/21 16:23	08/25/21 04:06	1

Client Sample ID: S-2.5-E8 Lab Sample ID: 570-66942-23 **Matrix: Solid**

Date Collected: 08/09/21 12:25 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.38		0.12	mg/Kg	<u>⇒</u>	08/16/21 13:38	08/18/21 15:12	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 90 50 - 150 08/16/21 13:38 08/18/21 15:12

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

mourour restrict to the			()				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	390	5.3	mg/Kg	<u></u>	08/20/21 16:23	08/25/21 04:28	1
TPH as Motor Oil Range	130	5.3	mg/Kg	₩	08/20/21 16:23	08/25/21 04:28	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117	50 - 150			08/20/21 16:23	08/25/21 04:28	1

Client Sample ID: S-5-E8 Lab Sample ID: 570-66942-24 **Matrix: Solid**

Date Collected: 08/09/21 12:30 Date Received: 08/12/21 10:15

Wethod: NWTPH-GX - North	vest - volatile F	etroieun	n Products (GC	~)				
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	210		110	mg/Kg	*	08/16/21 13:37	08/19/21 05:16	500
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150			08/16/21 13:37	08/19/21 05:16	500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

modification in BX inciding	ot 00 t	olutilo i ot	olouill i louu	oto (OO) Omou	O 0. •	Jiouilap			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	940		34	mg/Kg	*	08/20/21 16:23	08/25/21 04:50	5	
TPH as Motor Oil Range	890		34	mg/Kg	☼	08/20/21 16:23	08/25/21 04:50	5	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	114		50 - 150			08/20/21 16:23	08/25/21 04:50	5	

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Lab Sample ID: 570-66942-25

Client Sample ID: S-7.5-E8 Date Collected: 08/09/21 12:35 **Matrix: Solid** Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	170		31	mg/Kg	-	08/16/21 13:37	08/19/21 11:16	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150			08/16/21 13:37	08/19/21 11:16	250

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
TPH as Diesel Range	14000		330	mg/Kg	<u></u>	08/20/21 16:23	08/25/21 14:57	50
TPH as Motor Oil Range	3200		330	mg/Kg	₽	08/20/21 16:23	08/25/21 14:57	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
n-Octacosane (Surr)	110		50 - 150				08/25/21 14:57	

Client Sample ID: S-10-E8 Lab Sample ID: 570-66942-26 Date Collected: 08/09/21 12:40 **Matrix: Solid**

Date Received: 08/12/21 10:15

Analyte	Result Qual	roleum Products (GC ifier RL	V) Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result Qual	mer KL	Unit	ט	Prepared	Analyzeu	DII Fac
TPH as Gasoline (C4-C13)	1300	120	mg/Kg	₽	08/16/21 13:37	08/19/21 11:39	250
Surrogate	%Recovery Qual	ifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		50 - 150			08/16/21 13:37	08/19/21 11:39	250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	28000		500	mg/Kg	-	08/20/21 16:23	08/25/21 15:34	50
TPH as Motor Oil Range	7900		500	mg/Kg	₩	08/20/21 16:23	08/25/21 15:34	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150			08/20/21 16:23	08/25/21 15:34	50

Lab Sample ID: 570-66942-27 Client Sample ID: S-12.5-E8 Date Collected: 08/09/21 12:45 **Matrix: Solid**

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	280		78	mg/Kg	₩	08/16/21 13:37	08/23/21 15:59	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			08/16/21 13:37	08/23/21 15:59	50

Method. NWTPH-DX - Nort	ilwest - Seilli-vola	atile Petroleum Pr	buucis (GC) - Siiic	a Gei	Cleanup - DL	•	
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6000	220	mg/Kg	☆	08/20/21 16:23	08/25/21 13:31	10
TPH as Motor Oil Range	1900	220	mg/Kg	☆	08/20/21 16:23	08/25/21 13:31	10
Surrogate	%Recovery Qu	ualifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	82	50 - 150			08/20/21 16:23	08/25/21 13:31	10

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-D7

Lab Sample ID: 570-66942-28 Date Collected: 08/09/21 12:50

Matrix: Solid

Job ID: 570-66942-1

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northw	est - Volatile	Petroleui	m Products (G	C)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	63		14	mg/Kg	₩	08/16/21 13:37	08/18/21 16:47	100
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:37	Analyzed 08/18/21 16:47	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4300		28	mg/Kg	<u></u>	08/20/21 16:23	08/25/21 06:16	
TPH as Motor Oil Range	1900		28	mg/Kg	₩	08/20/21 16:23	08/25/21 06:16	Ę
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)			50 - 150			08/20/21 16:23	08/25/21 06:16	

Client Sample ID: S-5-D7 Lab Sample ID: 570-66942-29 **Matrix: Solid**

Date Collected: 08/09/21 12:55

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	810		250	mg/Kg	*	08/16/21 13:37	08/19/21 05:40	1000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			08/16/21 13:37	08/19/21 05:40	1000

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	29000		150	mg/Kg	<u></u>	08/20/21 16:23	08/25/21 06:39	25
TPH as Motor Oil Range	6900		150	mg/Kg	₩	08/20/21 16:23	08/25/21 06:39	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	128		50 - 150			08/20/21 16:23	08/25/21 06:39	25

Lab Sample ID: 570-66942-30 Client Sample ID: S-7.5-D7 **Matrix: Solid**

Date Collected: 08/09/21 13:00

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	350		40	mg/Kg	₽	08/16/21 13:37	08/19/21 03:42	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150			08/16/21 13:37	08/19/21 03:42	250

Method: NW I PH-DX - North	west - Semi-volatile Pe	etroleum Produc	ts (GC) - Silica	Ger	Jieanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	9200	120	mg/Kg	₩	08/20/21 16:23	08/25/21 07:00	20
TPH as Motor Oil Range	3500	120	mg/Kg	₩	08/20/21 16:23	08/25/21 07:00	20
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107	50 - 150			08/20/21 16:23	08/25/21 07:00	20

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-D7

Client: Cardno, Inc

Date Collected: 08/09/21 13:05 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-31

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Produc	ts (GC)
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	650		77	mg/Kg	*	08/16/21 13:37	08/19/21 12:26	250

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 85 50 - 150 08/16/21 13:37 08/19/21 12:26 250 4-Bromofluorobenzene (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte TPH as Diesel Range TPH as Motor Oil Range	40000 7000	Qualifier	150 150	 Unit mg/Kg mg/Kg	Prepared 08/20/21 16:23 08/20/21 16:23		20 20	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	

08/20/21 16:23 08/25/21 07:21 n-Octacosane (Surr) 108 50 - 150

Client Sample ID: S-12.5-D7

Date Collected: 08/09/21 13:10 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-32

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	13	1.8	mg/Kg	☼	08/16/21 13:38	08/19/21 08:02	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 73 50 - 150 08/16/21 13:38 08/19/21 08:02

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	420		26	mg/Kg		08/20/21 16:23	08/25/21 07:43	1
TPH as Motor Oil Range	160		26	mg/Kg	₩	08/20/21 16:23	08/25/21 07:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122		50 - 150			08/20/21 16:23	08/25/21 07:43	1

Client Sample ID: S-2.5-E6 Lab Sample ID: 570-66942-33

Date Collected: 08/09/21 13:45 Date Received: 08/12/21 10:15

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		43	mg/Kg	₩	08/16/21 13:37	08/19/21 22:03	250

Surrogate %Recovery Qualifier Dil Fac I imits Prepared Analyzed 4-Bromofluorobenzene (Surr) 75 50 - 150 08/16/21 13:37 08/19/21 22:03 250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	15000	67	mg/Kg	— <u></u>	08/20/21 16:23	08/25/21 08:05	10
TPH as Motor Oil Range	2200	67	mg/Kg	≎	08/20/21 16:23	08/25/21 08:05	10
Surrogate	%Recovery Qualifier	l imits			Prepared	Analyzed	Dil Fac

08/20/21 16:23 08/25/21 08:05 n-Octacosane (Surr)

Lab Sample ID: 570-66942-34

08/20/21 16:23 08/25/21 08:50

Client Sample ID: S-5-E6

Date Collected: 08/09/21 13:50

Date Received: 08/12/21 10:15

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

 Analyte
 Result TPH as Gasoline (C4-C13)
 Qualifier Qualifier RL TPH as Gasoline (C4-C13)
 RL TPH as Gasoline (C4-C13)
 Unit mg/Kg
 D mg/Kg
 Prepared Minimal Prepared Minimal Minimal

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 77
 50 - 150
 08/16/21 13:37
 08/19/21 21:39
 250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 96000 740 mg/Kg 08/20/21 16:23 08/25/21 13:53 100 740 mg/Kg 08/20/21 16:23 08/25/21 13:53 **TPH as Motor Oil Range** 8700 100

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier Qualifier
 Limits Surious
 Prepared 08/20/21 16:23
 Analyzed 08/25/21 13:53
 Dil Fac 08/20/21 16:23

Client Sample ID: S-7.5-E6

Lab Sample ID: 570-66942-35

Matrix: Solid

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 TPH as Gasoline (C4-C13)
 620
 33
 mg/Kg
 © 8/16/21 13:37
 08/21/21 15:35
 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range 3900 13 mg/Kg 08/20/21 16:23 08/25/21 08:50 2 **TPH as Motor Oil Range** 380 13 mg/Kg 08/20/21 16:23 08/25/21 08:50 2 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac

Client Sample ID: S-10-E6 Lab Sample ID: 570-66942-36

50 - 150

Date Collected: 08/09/21 14:00 Date Received: 08/12/21 10:15

n-Octacosane (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

124

 Analyte
 Result TPH as Gasoline (C4-C13)
 Result Qualifier
 RL
 Unit mg/Kg
 D mg/Kg
 Prepared 08/16/21 13:37
 Analyzed 08/19/21 20:52
 Dil Fac 08/16/21 13:37

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 80
 50 - 150
 08/16/21 13:37
 08/19/21 20:52
 250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RLUnit Prepared Analyzed Dil Fac 13000 79 mg/Kg 08/20/21 16:23 08/25/21 14:14 10 **TPH as Diesel Range** 79 08/20/21 16:23 08/25/21 14:14 **TPH as Motor Oil Range** 1300 mg/Kg 10

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier S1+
 Limits S0-150
 Prepared 08/20/21 16:23
 Analyzed 08/25/21 14:14
 Dil Fac 08/20/21 16:23

Matrix: Solid

Lab Sample ID: 570-66942-37 Client Sample ID: S-12.5-E6

Date Collected: 08/09/21 14:05

Matrix: Solid Date Received: 08/12/21 10:15

Method: NWTPH-Gx - North	nwest - Volatile Pet	troleum Products (GC	;)				
Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	250	51	mg/Kg	<u></u>	08/16/21 13:37	08/23/21 16:23	50
Surrogate	%Recovery Qua	lifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77	50 - 150			08/16/21 13:37	08/23/21 16:23	50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5100		17	mg/Kg	₩	08/20/21 16:23	08/25/21 09:33	1
TPH as Motor Oil Range	550		17	mg/Kg	₩	08/20/21 16:23	08/25/21 09:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	127		50 - 150			08/20/21 16:23	08/25/21 09:33	1

Lab Sample ID: 570-66942-38 **Client Sample ID: S-2.5-D5** Date Collected: 08/09/21 14:10 **Matrix: Solid**

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	370		68	mg/Kg	₩	08/16/21 13:37	08/19/21 20:04	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150			08/16/21 13:37	08/19/21 20:04	250

Method: NWTPH-Dx - Northy	vest - Semi-V	olatile Peti	roleum Produc	cts (GC) - Silica (Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1600		6.9	mg/Kg	<u></u>	08/20/21 16:23	08/25/21 09:55	1
TPH as Motor Oil Range	580		6.9	mg/Kg	₩	08/20/21 16:23	08/25/21 09:55	1
Surrogate n-Octacosane (Surr)		Qualifier	Limits 50 - 150			Prepared 08/20/21 16:23	Analyzed 08/25/21 09:55	Dil Fac

Lab Sample ID: 570-66942-39 **Client Sample ID: S-5-D5 Matrix: Solid**

Date Collected: 08/09/21 14:15

Date Received: 08/12/21 10:15								
Method: NWTPH-Gx - Northwe	st - Volatile	Petroleum	Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	470		83	ma/Ka	— <u></u>	08/16/21 13:37	08/19/21 19:41	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150	08/16/21 13:37	08/19/21 19:41	250

Method: NWTPH-Dx - North	t <mark>hwest - Semi-Vola</mark> Result Qu		oleum Product	ts (GC) - Silica Unit	Gel (Cleanup Prepared	Analyzed	Dil Fac
Allalyte	Nesuit Qi	uaiiiiei			=			Dil Fac
TPH as Diesel Range	18000		76	mg/Kg	₩	08/20/21 16:23	08/25/21 14:36	10
TPH as Motor Oil Range	4600		76	mg/Kg	☼	08/20/21 16:23	08/25/21 14:36	10
Surrogate	%Recovery Q	ualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	154 S1	1+	50 - 150			08/20/21 16:23	08/25/21 14:36	10

Dil Fac

Job ID: 570-66942-1

Analyzed

Client Sample ID: S-7.5-D5 Lab Sample ID: 570-66942-40

Date Collected: 08/09/21 14:20 **Matrix: Solid** Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwes	st - Volatile Petroleum	Products (GC)	
Analyte	Result Qualifier	RL	

TPH as Gasoline (C4-C13)	81	30	mg/Kg		08/20/21 19:37	20
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorohenzene (Surr)	81	50 - 150		08/16/21 13:37	08/20/21 19:37	20

Unit

Prepared

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3600		21	mg/Kg	— <u></u>	08/20/21 16:23	08/25/21 10:38	1
TPH as Motor Oil Range	930		21	mg/Kg	≎	08/20/21 16:23	08/25/21 10:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	127		50 - 150			08/20/21 16:23	08/25/21 10:38	1

Client Sample ID: S-10-D5 Lab Sample ID: 570-66942-41 **Matrix: Solid**

Date Collected: 08/09/21 14:25

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result 800	Qualifier	RL 200	_ <mark>Unit</mark> mg/Kg	_ <u>D</u>	Prepared 08/16/21 13:37	Analyzed 08/19/21 19:17	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	35	S1-	50 - 150			08/16/21 13:37	08/19/21 19:17	250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

method: With the DX - Northwes	t Ocimi v	Olutho i Ct	roicuiii i rodac	to (GG) - Gillea	OC. V	Jicanap		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	11000		170	mg/Kg	<u></u>	08/20/21 16:35	08/26/21 12:55	10
TPH as Motor Oil Range	2400		170	mg/Kg	₩	08/20/21 16:35	08/26/21 12:55	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	157	S1+	50 - 150			08/20/21 16:35	08/26/21 12:55	10

Client Sample ID: S-12.5-D5 Lab Sample ID: 570-66942-42 **Matrix: Solid**

Date Collected: 08/09/21 14:30

Date Received: 08/12/21 10:15

I and the second	
Made all NIMTDII On Nightlernant	- Volatile Petroleum Products (GC)
MOTOOT NIVITED A NOTTOWAST	- Volatile Petrolelim Products (1-1.)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	2.1		0.25	mg/Kg	☆	08/16/21 13:38	08/19/21 08:55	1	
, , ,									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	87		50 - 150			08/16/21 13:38	08/19/21 08:55		

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.6	mg/Kg	≎	08/20/21 16:35	08/25/21 20:56	1
TPH as Motor Oil Range	ND	6.6	mg/Kg	₩	08/20/21 16:35	08/25/21 20:56	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109	50 - 150			08/20/21 16:35	08/25/21 20:56	1

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Client Sample ID: S-2.5-E4 Lab Sample ID: 570-66942-43

Date Collected: 08/09/21 14:35 **Matrix: Solid** Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	270		27	mg/Kg	*	08/16/21 13:37	08/20/21 20:01	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150			08/16/21 13:37	08/20/21 20:01	100

4100	68	mg/Kg		08/20/21 16:35	08/26/21 13:17	10
		3. 3	Ar.	00/20/21 10.55	00/20/21 13.17	10
1300	68	mg/Kg	₩	08/20/21 16:35	08/26/21 13:17	10
%Recovery Qualifier	Limits			Prepared	Analvzed	Dil F
,		%Recovery Qualifier Limits	%Recovery Qualifier Limits	%Recovery Qualifier Limits	%Recovery Qualifier Limits Prepared	%Recovery Qualifier Limits Prepared Analyzed

Lab Sample ID: 570-66942-44 Client Sample ID: S-5-E4 Date Collected: 08/09/21 14:40 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleur	n Products (GC)				
Analyte	Result	Qualifier	RL .	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	25		18	mg/Kg	₩	08/16/21 13:37	08/20/21 20:24	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		50 - 150			08/16/21 13:37	08/20/21 20:24	100

Method: NWTPH-Dx - Nort	thwest - Semi-Vo	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1500		61	mg/Kg	<u></u>	08/20/21 16:35	08/25/21 21:40	10
TPH as Motor Oil Range	320		61	mg/Kg	₩	08/20/21 16:35	08/25/21 21:40	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125		50 - 150			08/20/21 16:35	08/25/21 21:40	10

Lab Sample ID: 570-66942-45 Client Sample ID: S-7.5-E4 **Matrix: Solid**

Date Collected: 08/09/21 14:45 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nort	hwest - Volatile Petroleu	est - Volatile Petroleum Products (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	22	5.6	mg/Kg	*	08/16/21 13:37	08/21/21 16:28	20
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		50 - 150			08/16/21 13:37	08/21/21 16:28	20

Method: NWTPH-Dx - No	rthwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13	6.9	mg/Kg	₽	08/20/21 16:35	08/25/21 22:01	1
TPH as Motor Oil Range	ND	6.9	mg/Kg	☆	08/20/21 16:35	08/25/21 22:01	1
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits 50 - 150			Prepared 08/20/21 16:35	Analyzed 08/25/21 22:01	Dil Fac

Client Sample ID: S-10-E4

Client: Cardno, Inc

Date Collected: 08/09/21 14:50 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-46

D

Matrix: Solid

Method: NWTPH-Gx - Northwest -	Volatile Petroleum	Products (GC)
Analyte	Result Qualifier	RL

Unit Prepared Analyzed Dil Fac 08/16/21 13:37 TPH as Gasoline (C4-C13) 38 9.2 mg/Kg 08/21/21 16:51

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 08/16/21 13:37 4-Bromofluorobenzene (Surr) 80 08/21/21 16:51 20

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 320 7.0 mg/Kg 08/20/21 16:35 08/25/21 22:24 7.0 mg/Kg 08/20/21 16:35 08/25/21 22:24 **TPH as Motor Oil Range** 96

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 08/20/21 16:35 08/25/21 22:24 n-Octacosane (Surr) 116 50 - 150

Client Sample ID: S-12.5-E4 Lab Sample ID: 570-66942-47

Date Received: 08/12/21 10:15

Date Collected: 08/09/21 14:55 **Matrix: Solid**

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Dil Fac TPH as Gasoline (C4-C13) 0.48 0.26 mg/Kg 08/16/21 13:38 08/23/21 18:21

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 116 50 - 150 08/16/21 13:38 08/23/21 18:21

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range $\overline{\mathsf{ND}}$ 6.3 mg/Kg 08/20/21 16:35 08/25/21 22:45 TPH as Motor Oil Range ND 6.3 mg/Kg 08/20/21 16:35 08/25/21 22:45 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 110 50 - 150 08/20/21 16:35 08/25/21 22:45

Client Sample ID: S-2.5-D3 Lab Sample ID: 570-66942-48

Date Collected: 08/09/21 15:00

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 260 23 mg/Kg 08/16/21 13:37 08/20/21 21:59 100

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 4-Bromofluorobenzene (Surr) 69 50 - 150 08/16/21 13:37 08/20/21 21:59 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RLUnit Prepared Analyzed Dil Fac 4100 59 mg/Kg 08/20/21 16:35 08/26/21 13:39 10 **TPH as Diesel Range** 59 08/20/21 16:35 08/26/21 13:39 **TPH as Motor Oil Range** 1400 mg/Kg 10

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/20/21 16:35 08/26/21 13:39 124

Matrix: Solid

Lab Sample ID: 570-66942-49 **Client Sample ID: S-5-D3**

Date Collected: 08/09/21 15:05 **Matrix: Solid**

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1600		58	mg/Kg	<u></u>	08/16/21 13:37	08/21/21 18:24	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150			08/16/21 13:37	08/21/21 18:24	250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	22000		300	mg/Kg	<u></u>	08/20/21 16:35	08/26/21 06:03	50
TPH as Motor Oil Range	3900		300	mg/Kg	₩	08/20/21 16:35	08/26/21 06:03	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		50 - 150			08/20/21 16:35	08/26/21 06:03	50

Client Sample ID: S-7.5-D3 Lab Sample ID: 570-66942-50 **Matrix: Solid**

Date Collected: 08/09/21 15:10

Date Received: 08/12/21 10:15

Analyte		Qualifier	n Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	68		27	mg/Kg	₩	08/16/21 13:37	08/20/21 23:57	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150			08/16/21 13:37	08/20/21 23:57	100

Method: NWTPH-Dx - Northy	vest - Semi-V	olatile Pet	roleum Produc	cts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	560		66	mg/Kg	<u></u>	08/20/21 16:35	08/26/21 06:25	10
TPH as Motor Oil Range	2200		66	mg/Kg	₩	08/20/21 16:35	08/26/21 06:25	10
Surrogate n-Octacosane (Surr)		Qualifier	Limits 50 - 150			Prepared 08/20/21 16:35	Analyzed 08/26/21 06:25	Dil Fac

Lab Sample ID: 570-66942-51 Client Sample ID: S-10-D3 **Matrix: Solid**

Date Collected: 08/09/21 15:15

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	86		24	mg/Kg	*	08/16/21 13:37	08/21/21 00:20	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150			08/16/21 13:37	08/21/21 00:20	100

Wethod. NWTPH-DX - NOTE	iwest - Seiiii-ve	Jiallie Peli	oleum Produc	is (GC) - Silica	Ger	Sleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	390		65	mg/Kg	☆	08/20/21 16:35	08/26/21 07:31	10
TPH as Motor Oil Range	110		65	mg/Kg	₩	08/20/21 16:35	08/26/21 07:31	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		50 - 150			08/20/21 16:35	08/26/21 07:31	10

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-D3

Lab Sample ID: 570-66942-52

Date Received: 08/12/21 10:15

Date Collected: 08/09/21 15:20 Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Unit D Analyte Result Qualifier Prepared Analyzed Dil Fac 0.26 08/16/21 13:40 08/21/21 13:40 TPH as Gasoline (C4-C13) 0.38 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 08/16/21 13:40 4-Bromofluorobenzene (Surr) 88 08/21/21 13:40

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac TPH as Diesel Range ND 6.4 mg/Kg 08/20/21 16:35 08/26/21 07:52 TPH as Motor Oil Range ND 6.4 mg/Kg 08/20/21 16:35 08/26/21 07:52 %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 50 - 150 08/20/21 16:35 08/26/21 07:52 n-Octacosane (Surr) 105

Client Sample ID: S-2.5-E2 Lab Sample ID: 570-66942-53 Matrix: Solid

Date Collected: 08/09/21 15:25

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 64 mg/Kg 08/16/21 13:37 08/21/21 01:08 100 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 84 50 - 150 08/16/21 13:37 08/21/21 01:08 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range 430 64 mg/Kg 08/20/21 16:35 08/26/21 08:13 10 64 **TPH as Motor Oil Range** 240 mg/Kg 08/20/21 16:35 08/26/21 08:13 10 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 123 50 - 150 08/20/21 16:35 08/26/21 08:13

Client Sample ID: S-5-E2 Lab Sample ID: 570-66942-54 Matrix: Solid

Date Collected: 08/09/21 15:30

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 280 35 mg/Kg 08/16/21 13:37 08/21/21 01:31 100 Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/16/21 13:37 08/21/21 01:31 100 73

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RLUnit Prepared Analyzed Dil Fac 1000 63 mg/Kg 08/20/21 16:35 08/26/21 08:34 10 **TPH as Diesel Range** 63 08/20/21 16:35 08/26/21 08:34 **TPH as Motor Oil Range** 200 mg/Kg 10 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/20/21 16:35 08/26/21 08:34 120

Client Sample ID: S-7.5-E2 Lab Sample ID: 570-66942-55

Date Collected: 08/09/21 15:35 Date Received: 08/12/21 10:15

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwes	t - Volatile	Petroleur	n Products (GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	280		26	mg/Kg	☼	08/16/21 13:37	08/21/21 01:55	100
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 69	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:37	Analyzed 08/21/21 01:55	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1500		6.5	mg/Kg	<u></u>	08/20/21 16:35	08/26/21 08:57	1
TPH as Motor Oil Range	95		6.5	mg/Kg	₩	08/20/21 16:35	08/26/21 08:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150			08/20/21 16:35	08/26/21 08:57	1

Lab Sample ID: 570-66942-56 Client Sample ID: S-10-E2 **Matrix: Solid**

Date Collected: 08/09/21 15:40 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - North	west - Volatile	e Petroleui	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	160		23	mg/Kg	*	08/16/21 13:37	08/21/21 02:19	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150			08/16/21 13:37	08/21/21 02:19	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	250		6.3	mg/Kg	<u></u>	08/20/21 16:35	08/26/21 09:20	1
TPH as Motor Oil Range	22		6.3	mg/Kg	₩	08/20/21 16:35	08/26/21 09:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)			50 - 150			08/20/21 16:35	08/26/21 09:20	1

Lab Sample ID: 570-66942-57 Client Sample ID: S-12.5-E2 Date Collected: 08/09/21 15:45 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northw	est - Volatile	Petroleun	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.36		0.34	mg/Kg	-	08/16/21 13:40	08/23/21 12:27	1
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 80	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:40	Analyzed 08/23/21 12:27	Dil Fac

Method: NWTPH-Dx - No	rthwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	7.4	mg/Kg	₽	08/20/21 16:35	08/26/21 09:41	1
TPH as Motor Oil Range	ND	7.4	mg/Kg	☼	08/20/21 16:35	08/26/21 09:41	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108	50 - 150			08/20/21 16:35	08/26/21 09:41	1

Lab Sample ID: 570-66942-58 Client Sample ID: S-2.5-D1

Date Collected: 08/09/21 15:50 Date Received: 08/12/21 10:15

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - Northy	west - Volatile	Petroleui	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	190		23	mg/Kg	-	08/16/21 13:37	08/21/21 03:06	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150			08/16/21 13:37	08/21/21 03:06	100

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	390		13	mg/Kg	<u></u>	08/20/21 16:35	08/26/21 10:03	2
TPH as Motor Oil Range	440		13	mg/Kg	₽	08/20/21 16:35	08/26/21 10:03	2
Surrogate	%Recovery (Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	72		50 - 150			08/20/21 16:35	08/26/21 10:03	

Client Sample ID: S-5-D1 Lab Sample ID: 570-66942-59 **Matrix: Solid**

Date Collected: 08/09/21 15:55

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	26		20	mg/Kg	₩	08/16/21 13:37	08/21/21 03:29	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/16/21 13:37	08/21/21 03:29	100

Method: NWTPH-Dx - North	west - Semi-V	olatile Pet	roleum Produ	cts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	410		57	mg/Kg	<u></u>	08/20/21 16:35	08/26/21 10:24	10
TPH as Motor Oil Range	94		57	mg/Kg	☼	08/20/21 16:35	08/26/21 10:24	10
Surrogate n-Octacosane (Surr)		Qualifier	Limits 50 - 150			Prepared 08/20/21 16:35	Analyzed 08/26/21 10:24	Dil Fac

Lab Sample ID: 570-66942-60 Client Sample ID: S-7.5-D1 **Matrix: Solid**

Date Collected: 08/09/21 16:00 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwe	est - Volatile	Petroleur	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	25		0.84	mg/Kg	₽	08/16/21 13:40	08/21/21 14:04	1
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:40	Analyzed 08/21/21 14:04	Dil Fac

Method: NWTPH-Dx - North	thwest - Semi-Volatile: Result Qualifie		ts (GC) - Silica Unit	Gel (D	Cleanup Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5700	140	mg/Kg	<u></u>	08/20/21 16:35	08/26/21 10:46	10
TPH as Motor Oil Range	1700	140	mg/Kg	₩	08/20/21 16:35	08/26/21 10:46	10
Surrogate	%Recovery Qualifie	er Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	133	50 - 150			08/20/21 16:35	08/26/21 10:46	10

Lab Sample ID: 570-66942-61

Client Sample ID: S-10-D1 Date Collected: 08/09/21 16:05

Matrix: Solid

Job ID: 570-66942-1

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	160		85	mg/Kg	<u></u>	08/16/21 13:37	08/21/21 06:38	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150			08/16/21 13:37	08/21/21 06:38	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	400		14	mg/Kg	<u></u>	08/20/21 16:52	08/28/21 00:26	
TPH as Motor Oil Range	220		14	mg/Kg	₩	08/20/21 16:52	08/28/21 00:26	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121		50 - 150			08/20/21 16:52	08/28/21 00:26	-

Lab Sample ID: 570-66942-62 Client Sample ID: S-12.5-D1 Date Collected: 08/09/21 16:10 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - North Analyte		Petroleur Qualifier	n Products (GC RL	Unit	п	Prepared	Analyzed	Dil Fac
Allalyte	itesuit	Qualifier				Fiepaieu	Allalyzeu	Diriac
TPH as Gasoline (C4-C13)	0.60		0.26	mg/Kg	₽	08/16/21 13:40	08/21/21 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150			08/16/21 13:40	08/21/21 14:28	1

	Method: NWTPH-Dx - Northy	vest - Semi-V	olatile Peti	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
١	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	TPH as Diesel Range	ND		6.3	mg/Kg	<u></u>	08/20/21 16:52	08/28/21 00:47	1
	TPH as Motor Oil Range	ND		6.3	mg/Kg	₽	08/20/21 16:52	08/28/21 00:47	1
	Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/20/21 16:52	Analyzed 08/28/21 00:47	Dil Fac

Lab Sample ID: 570-66942-63 Client Sample ID: S-2.5-G2

Date Collected: 08/10/21 07:45 **Matrix: Solid** Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	240		23	mg/Kg	*	08/16/21 13:37	08/21/21 07:27	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150			08/16/21 13:37	08/21/21 07:27	100

Analyte	Result Qualifier	KL	Unit	U	Prepared	Anaiyzea	DII Fac	
TPH as Diesel Range	2200	12	mg/Kg	≎	08/20/21 16:52	08/28/21 01:09	2	
TPH as Motor Oil Range	1100	12	mg/Kg	₩	08/20/21 16:52	08/28/21 01:09	2	
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	123	50 - 150			08/20/21 16:52	08/28/21 01:09		

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-G2

Date Collected: 08/10/21 07:50

Lab Sample ID: 570-66942-64

Matrix: Solid

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nort	hwest - Volatile Petroleum I	Products (GC)
Analyte	Result Qualifier	RI

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 TPH as Gasoline (C4-C13)
 50
 25
 mg/Kg
 © 8/16/21 13:37
 08/21/21 07:51
 100

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 90
 Limits 50 - 150
 Prepared 08/16/21 13:37
 Analyzed 08/21/21 07:51
 Dil Fac 08/16/21 13:37

 ${\bf Method:\ NWTPH-Dx\ -\ Northwest\ -\ Semi-Volatile\ Petroleum\ Products\ (GC)\ -\ Silica\ Gel\ Cleanup}$

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 190 5.8 mg/Kg 08/20/21 16:52 08/28/21 01:31 **TPH as Motor Oil Range** 5.8 mg/Kg 08/20/21 16:52 08/28/21 01:31 150

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 50 - 150
 08/20/21 16:52
 08/20/21 16:52
 08/28/21 01:31
 1

Client Sample ID: S-10-G2

Date Collected: 08/10/21 07:55

Lab Sample ID: 570-66942-66

Matrix: Solid

Date Collected: 08/10/21 07:55 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

 Analyte
 Result TPH as Gasoline (C4-C13)
 Qualifier RL 0.21
 RL mg/Kg
 Unit mg/Kg
 D mg/Kg
 Prepared 0.8/16/21 13:40
 Analyzed 0.8/21/21 15:39
 Dil Fac 0.8/16/21 13:40

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 50 - 150
 Prepared 08/16/21 13:40
 Analyzed 08/21/21 15:39
 Dil Fac 08/16/21 13:40
 08/21/21 15:39
 1

 ${\bf Method:\ NWTPH-Dx\ -\ Northwest\ -\ Semi-Volatile\ Petroleum\ Products\ (GC)\ -\ Silica\ Gel\ Cleanup}$

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 240 5.7 mg/Kg 08/20/21 16:52 08/28/21 01:53 **TPH as Motor Oil Range** 120 5.7 mg/Kg 08/20/21 16:52 08/28/21 01:53 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac

Client Sample ID: S-12.5-G2

Date Collected: 08/10/21 08:00

Lab Sample ID: 570-66942-67

Matrix: Solid

50 - 150

Date Collected: 08/10/21 08:00 Date Received: 08/12/21 10:15

n-Octacosane (Surr)

_

98

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacTPH as Gasoline (C4-C13)ND1.0mg/Kg\$\frac{1}{20}\$ \quad \frac{10}{20}\$ \quad \frac{10}{20}\$ \quad \frac{10}{20}\$ \quad \frac{12}{21}\$ \quad 14:511

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 80
 50 - 150
 08/16/21 13:40
 08/21/21 14:51
 1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		16	mg/Kg	*	08/20/21 16:52	08/28/21 02:15	1
TPH as Motor Oil Range	33		16	mg/Kg	₽	08/20/21 16:52	08/28/21 02:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 125 50 - 150 08/20/21 16:52 08/28/21 02:15 1

08/20/21 16:52 08/28/21 01:53

Lab Sample ID: 570-66942-68 **Client Sample ID: S-2.5-F3**

Date Collected: 08/10/21 08:05 Date Received: 08/12/21 10:15

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - North	west - Volatile	Petroleu i	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	300		25	mg/Kg	— <u></u>	08/16/21 13:37	08/21/21 09:04	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/16/21 13:37	08/21/21 09:04	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6500		61	mg/Kg	₩	08/20/21 16:52	08/28/21 21:10	10
TPH as Motor Oil Range	2500		61	mg/Kg	₩	08/20/21 16:52	08/28/21 21:10	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	141		50 - 150			08/20/21 16:52	08/28/21 21:10	10

Client Sample ID: S-5-F3 Lab Sample ID: 570-66942-69 **Matrix: Solid**

Date Collected: 08/10/21 08:10

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	360		22	mg/Kg		08/16/21 13:37	08/21/21 09:28	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		50 - 150			08/16/21 13:37	08/21/21 09:28	100

Method: NWTPH-Dx - Nort	thwest - Semi-Ve	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1400		5.8	mg/Kg	— <u></u>	08/20/21 16:52	08/28/21 02:58	1
TPH as Motor Oil Range	560		5.8	mg/Kg	₩	08/20/21 16:52	08/28/21 02:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	120		50 - 150			08/20/21 16:52	08/28/21 02:58	1

Lab Sample ID: 570-66942-70 Client Sample ID: S-10-F3

Date Collected: 08/10/21 08:15 **Matrix: Solid** Date Received: 08/12/21 10:15

Method: NWTPH-Gx - North	west - Volatile Petroleur	n Products (GC	;)			
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	0.21	mg/Kg	© 08/16/21 13:40	08/21/21 15:15	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96	50 - 150		08/16/21 13:4	08/21/21 15:15	1

Method: NWTPH-Dx - Nort	thwest - Semi-Volatile F	Petroleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.2	mg/Kg	₽	08/20/21 16:52	08/28/21 03:20	1
TPH as Motor Oil Range	19	6.2	mg/Kg	☼	08/20/21 16:52	08/28/21 03:20	1
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits 50 - 150			Prepared 08/20/21 16:52	Analyzed 08/28/21 03:20	Dil Fac

Client Sample ID: S-12.5-F3

Date Collected: 08/10/21 08:20 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-71

Analyzed

Matrix: Solid

Dil Fac

Job ID: 570-66942-1

Method: NWTPH-Gx - Nort	hwest - Volatile Petroleum I	Products (GC)
Analyte	Result Qualifier	RI

08/16/21 13:40 08/24/21 18:01 TPH as Gasoline (C4-C13) ND 0.28 mg/Kg

Unit

D

Prepared

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 08/16/21 13:40 08/24/21 18:01 4-Bromofluorobenzene (Surr) 64

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac TPH as Diesel Range ND 6.8 mg/Kg 08/20/21 16:52 08/28/21 03:44 6.8 mg/Kg 08/20/21 16:52 08/28/21 03:44 **TPH as Motor Oil Range** 7.8

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 50 - 150 08/20/21 16:52 08/28/21 03:44 n-Octacosane (Surr) 116

Client Sample ID: S-2.5-G4 Lab Sample ID: 570-66942-72

Date Received: 08/12/21 10:15

Date Collected: 08/10/21 08:25 Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 110 mg/Kg 08/16/21 13:37 08/21/21 00:02 100

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 104 50 - 150 08/16/21 13:37 08/21/21 00:02 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 2800 57 mg/Kg 08/20/21 16:52 08/28/21 21:31 10 57 **TPH as Motor Oil Range** 1400 mg/Kg 08/20/21 16:52 08/28/21 21:31 10 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac

n-Octacosane (Surr) 117 50 - 150 08/20/21 16:52 08/28/21 21:31

Client Sample ID: S-5-G4 Date Collected: 08/10/21 08:30

Lab Sample ID: 570-66942-73 Matrix: Solid

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 250 24 mg/Kg 08/16/21 13:37 08/21/21 14:09 100

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 4-Bromofluorobenzene (Surr) 110 50 - 150 08/16/21 13:37 08/21/21 14:09 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 250 6.3 mg/Kg 08/20/21 16:52 08/28/21 05:10 **TPH as Diesel Range** 6.3 08/20/21 16:52 08/28/21 05:10 **TPH as Motor Oil Range** 130 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/20/21 16:52 08/28/21 05:10 122

Lab Sample ID: 570-66942-74

Client Sample ID: S-7.5-G4 Date Collected: 08/10/21 08:35

Matrix: Solid

Job ID: 570-66942-1

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	12		4.3	mg/Kg	<u></u>	08/16/21 13:37	08/21/21 19:11	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150			08/16/21 13:37	08/21/21 19:11	20

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	12		6.1	mg/Kg	₩	08/20/21 16:52	08/28/21 05:32	1
TPH as Motor Oil Range	77		6.1	mg/Kg	₩	08/20/21 16:52	08/28/21 05:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150			08/20/21 16:52	08/28/21 05:32	1

Client Sample ID: S-10-G4 Lab Sample ID: 570-66942-75

Date Collected: 08/10/21 08:40 **Matrix: Solid**

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	96		21	mg/Kg	₩	08/16/21 13:37	08/21/21 11:09	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/16/21 13:37	08/21/21 11:09	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	68		5.7	mg/Kg	☆	08/20/21 16:52	08/28/21 05:54	1
TPH as Motor Oil Range	150		5.7	mg/Kg	₩	08/20/21 16:52	08/28/21 05:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150			08/20/21 16:52	08/28/21 05:54	1

Lab Sample ID: 570-66942-76 Client Sample ID: S-12.5-G4 Date Collected: 08/10/21 08:05 **Matrix: Solid**

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		1.3	mg/Kg	₽	08/16/21 13:40	08/21/21 15:07	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150			08/16/21 13:40	08/21/21 15:07	7

Method: NWTPH-Dx - Nort	thwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	20	mg/Kg	☆	08/20/21 16:52	08/28/21 06:15	1
TPH as Motor Oil Range	100	20	mg/Kg	₩	08/20/21 16:52	08/28/21 06:15	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	132	50 - 150			08/20/21 16:52	08/28/21 06:15	1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-F5

n-Octacosane (Surr)

Lab Sample ID: 570-66942-77

Date Collected: 08/10/21 09:15 **Matrix: Solid** Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	310		28	mg/Kg	<u></u>	08/16/21 13:37	08/21/21 12:06	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

105 4-Bromofluorobenzene (Surr) 50 - 150 08/16/21 13:37 08/21/21 12:06 100 Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte **Result Qualifier** RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 500 6.7 mg/Kg © 08/20/21 16:52 08/28/21 06:37 6.7 mg/Kg © 08/20/21 16:52 08/28/21 06:37 **TPH as Motor Oil Range** 270 %Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/20/21 16:52 08/28/21 06:37 118

Client Sample ID: S-5-F5 Lab Sample ID: 570-66942-78 Matrix: Solid

Date Collected: 08/10/21 09:20 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northy	vest - Volatile	Petroleur	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1300		39	mg/Kg		08/16/21 13:37	08/21/21 12:35	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	211	S1+	50 - 150			08/16/21 13:37	08/21/21 12:35	100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL Analyte Result Qualifier RL Unit Analyzed

Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	6200	410	mg/Kg	₩	08/20/21 16:52	08/28/21 21:53	50
TPH as Diesel Range	76000	410	mg/Kg	<u></u>	08/20/21 16:52	08/28/21 21:53	50
					•	•	

Client Sample ID: S-7.5-F5 Lab Sample ID: 570-66942-79

50 - 150

Date Collected: 08/10/21 09:25 **Matrix: Solid** Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

152 S1+

Analyte TPH as Gasoline (C4-C13)	Result 1400	Qualifier	RL 79	 Jnit D ng/Kg ₽	Prepared 08/16/21 13:37	Analyzed 08/21/21 13:04	Dil Fac 100
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier S1+	Limits 50 - 150		Prepared 08/16/21 13:37	Analyzed 08/21/21 13:04	Dil Fac

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DI

Method: NVIII II-DX - North	West - Genn-Volatile i e	ti Oleuili i Touuc	to (GG) - Gillea	OCI V	Jicanup - DL	•	
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	20000	110	mg/Kg	₩	08/20/21 16:52	08/28/21 22:16	10
TPH as Motor Oil Range	2000	110	mg/Kg	₩	08/20/21 16:52	08/28/21 22:16	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	138	50 - 150			08/20/21 16:52	08/28/21 22:16	10

Dil Fac

50

08/20/21 16:52 08/28/21 21:53

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-F5

Date Collected: 08/10/21 09:30 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-80

Matrix: Solid

Method: NWTPH-Gx - Northy	vest - Volatile	Petroleur	n Products (GC))				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	870		110	mg/Kg	☆	08/16/21 13:37	08/21/21 13:35	100
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:37	Analyzed 08/21/21 13:35	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	21000		140	mg/Kg	<u></u>	08/20/21 16:52	08/28/21 22:39	10
TPH as Motor Oil Range	2100		140	mg/Kg	₩	08/20/21 16:52	08/28/21 22:39	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	140		50 - 150			08/20/21 16:52	08/28/21 22:39	10

Lab Sample ID: 570-66942-81 **Client Sample ID: S-12.5-F5** Date Collected: 08/10/21 09:35 **Matrix: Solid**

Date Received: 08/12/21 10:15

_ Method: NWTPH-Gx - NortI	nwest - Volatile	e Petroleui	n Products (GC	;)				
Analyte	Result	Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.8		0.93	mg/Kg	*	08/16/21 13:40	08/23/21 13:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150			08/16/21 13:40	08/23/21 13:14	1

Method: NWTPH-Dx - Nort	thwest - Semi-Volati	le Petroleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	16	mg/Kg	<u></u>	08/20/21 16:52	08/28/21 08:04	1
TPH as Motor Oil Range	46	16	mg/Kg	₩	08/20/21 16:52	08/28/21 08:04	1
Surrogate	%Recovery Qual	lifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124	50 - 150			08/20/21 16:52	08/28/21 08:04	1

Lab Sample ID: 570-66942-82 Client Sample ID: S-2.5-G6 **Matrix: Solid**

Date Collected: 08/10/21 09:40 Date Received: 08/12/21 10:15

- 1	 - Northwest - Volatile Petroleum Products	

Analyte TPH as Gasoline (C4-C13)	Result 280	Qualifier	RL 29	Unit mg/Kg	_ <u>D</u>	Prepared 08/16/21 13:37	Analyzed 08/21/21 17:25	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:37	Analyzed 08/21/21 17:25	Dil Fac

Method: NWTPH-Dx - Nort	:hwest - Semi-Volatile Po	etroleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1700	13	mg/Kg	₽	08/20/21 16:57	08/28/21 15:24	2
TPH as Motor Oil Range	530	13	mg/Kg	₩	08/20/21 16:57	08/28/21 15:24	2
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97	50 - 150			08/20/21 16:57	08/28/21 15:24	2

Lab Sample ID: 570-66942-83

Client Sample ID: S-5-G6 Date Collected: 08/10/21 09:45 **Matrix: Solid**

Job ID: 570-66942-1

Date Received: 08/12/21 10:15 Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	ı	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	260		25	1	mg/Kg	☆	08/16/21 13:37	08/21/21 17:48	100

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 08/16/21 13:37 08/21/21 17:48 4-Bromofluorobenzene (Surr) 74 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	•	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1100		12		mg/Kg	— <u></u>	08/20/21 16:57	08/28/21 15:43	2
TPH as Motor Oil Range	350		12		mg/Kg	₩	08/20/21 16:57	08/28/21 15:43	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

08/20/21 16:57 08/28/21 15:43 n-Octacosane (Surr) 96 50 - 150

Client Sample ID: S-7.5-G6 Lab Sample ID: 570-66942-84 Date Collected: 08/10/21 09:50 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	PI	Unit	n	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	170 Qualifier	26	mg/Kg	- -		08/21/21 18:12	100

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 79 50 - 150 08/16/21 13:37 08/21/21 18:12 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1800	13	mg/Kg	<u></u>	08/20/21 16:57	08/28/21 16:03	2
TPH as Motor Oil Range	610	13	mg/Kg	₽	08/20/21 16:57	08/28/21 16:03	2
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102	50 - 150			08/20/21 16:57	08/28/21 16:03	2

Client Sample ID: S-10-G6 Lab Sample ID: 570-66942-85

Date Collected: 08/10/21 09:55

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwe	est - Volatile	Petroleum	Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	240		26	mg/Kg	☼	08/16/21 13:37	08/21/21 18:35	100

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 08/16/21 13:37 08/21/21 18:35 4-Bromofluorobenzene (Surr) 91 50 - 150 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	670		6.8	mg/Kg	₩	08/20/21 16:57	08/28/21 16:23	1
TPH as Motor Oil Range	150		6.8	mg/Kg	₩	08/20/21 16:57	08/28/21 16:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 50 - 150 08/20/21 16:57 08/28/21 16:23

Matrix: Solid

Client Sample ID: S-12.5-G6 Date Collected: 08/10/21 10:00

Lab Sample ID: 570-66942-86

Matrix: Solid

Job ID: 570-66942-1

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northw	est - Volatile	Petroleui	m Products (GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	170		26	mg/Kg	*	08/16/21 13:37	08/21/21 18:59	100
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 86	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:37	Analyzed 08/21/21 18:59	Dil Fac 100

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	590		6.9	mg/Kg	<u></u>	08/20/21 16:57	08/28/21 16:43	1
TPH as Motor Oil Range	120		6.9	mg/Kg	₽	08/20/21 16:57	08/28/21 16:43	1
Surrogate	%Recovery (Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101		50 - 150			08/20/21 16:57	08/28/21 16:43	

Lab Sample ID: 570-66942-87 Client Sample ID: S-2.5-F7 Date Collected: 08/10/21 10:05

Date Received: 08/12/21 10:15

Matrix: Solid

Method: NWTPH-Gx - North	west - Volatile	e Petroleui	m Products (GC	5)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	66		28	mg/Kg	₩	08/16/21 13:37	08/21/21 19:22	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150			08/16/21 13:37	08/21/21 19:22	100

Method: NWTPH-Dx - Nort	thwest - Semi-Vo	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	160		6.3	mg/Kg	<u></u>	08/20/21 16:57	08/28/21 17:02	1
TPH as Motor Oil Range	110		6.3	mg/Kg	₩	08/20/21 16:57	08/28/21 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150			08/20/21 16:57	08/28/21 17:02	1

Lab Sample ID: 570-66942-88 Client Sample ID: S-5-F7

Date Collected: 08/10/21 10:10 **Matrix: Solid** Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	540		70	mg/Kg	₩	08/16/21 13:37	08/21/21 19:46	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150			08/16/21 13:37	08/21/21 19:46	250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	32000		350	mg/Kg	₩	08/20/21 16:57	08/30/21 04:04	50
TPH as Motor Oil Range	5800		350	mg/Kg	₩	08/20/21 16:57	08/30/21 04:04	50
Surrogate	%Recovery		Limits			Prepared 52	Analyzed	Dil Fac

n-Octacosane (Surr) 123 50 - 150 08/20/21 16:57 08/30/21 04:04

Job ID: 570-66942-1

Client Sample ID: S-7.5-F7 Lab Sample ID: 570-66942-89

Date Collected: 08/10/21 10:15

Matrix: Solid

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleui	m Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	340		26	mg/Kg	<u></u>	08/16/21 13:37	08/21/21 20:09	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150			08/16/21 13:37	08/21/21 20:09	100

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
TPH as Diesel Range	65000		320	mg/Kg	<u></u>	08/20/21 16:57	08/30/21 15:23	50
TPH as Motor Oil Range	15000		320	mg/Kg	₽	08/20/21 16:57	08/30/21 15:23	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
n-Octacosane (Surr)	289	S1+	50 - 150			08/20/21 16:57	08/30/21 15:23	5

Client Sample ID: S-10-F7

Date Collected: 08/10/21 10:20

Lab Sample ID: 570-66942-90

Matrix: Solid

Date Collected: 08/10/21 10:20 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	330		27	mg/Kg	₩	08/16/21 13:37	08/21/21 20:33	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150			08/16/21 13:37	08/21/21 20:33	100

Method: NWTPH-Dx - North					Gel (•		
Analyte	Result Q	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1400		6.8	mg/Kg	<u></u>	08/20/21 16:57	08/28/21 23:06	1
TPH as Motor Oil Range	320		6.8	mg/Kg	₽	08/20/21 16:57	08/28/21 23:06	1
Surrogate	%Recovery Q	ualifier Lim	nits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94	50 -	. 150			08/20/21 16:57	08/28/21 23:06	1

Client Sample ID: S-12.5-F7

Date Collected: 08/10/21 10:25

Lab Sample ID: 570-66942-91

Matrix: Solid

Date Received: 08/12/21 10:15

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	12	1.5	mg/Kg	₽	08/16/21 13:40	08/23/21 13:37	1
Surrogate	%Recovery Qua	alifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		50 - 150			08/16/21 13:40	08/23/21 13:37	

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	480		24	mg/Kg	<u></u>	08/20/21 16:57	08/28/21 23:26	1
TPH as Motor Oil Range	170		24	mg/Kg	☼	08/20/21 16:57	08/28/21 23:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		50 - 150			08/20/21 16:57	08/28/21 23:26	1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-G8

Lab Sample ID: 570-66942-92

Matrix: Solid

Job ID: 570-66942-1

Date Collected: 08/10/21 10:35 Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	120		26	mg/Kg	<u></u>	08/16/21 13:37	08/21/21 22:07	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/16/21 13:37	08/21/21 22:07	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	380		5.9	mg/Kg	<u></u>	08/20/21 16:57	08/28/21 23:46	1
TPH as Motor Oil Range	27		5.9	mg/Kg	₽	08/20/21 16:57	08/28/21 23:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150			08/20/21 16:57	08/28/21 23:46	1

Lab Sample ID: 570-66942-93 Client Sample ID: S-5-G8 Matrix: Solid

Date Collected: 08/10/21 10:40

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Norti		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	230			mg/Kg	-	08/16/21 13:37	08/21/21 22:31	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150			08/16/21 13:37	08/21/21 22:31	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	350		5.9	mg/Kg	<u></u>	08/20/21 16:57	08/29/21 00:07	1
TPH as Motor Oil Range	30		5.9	mg/Kg	₩	08/20/21 16:57	08/29/21 00:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150			08/20/21 16:57	08/29/21 00:07	1

Lab Sample ID: 570-66942-94 **Client Sample ID: S-7.5-G8** Matriv: Solid

ata Callactad: 09/10/21 10:45

Date Collected: 06/10/21 10:45	watrix: Solid
Date Received: 08/12/21 10:15	
Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)	

Analyte TPH as Gasoline (C4-C13)	Result 1400	Qualifier	120 RL	mg/Kg	_ D	Prepared 08/16/21 13:37	Analyzed 08/23/21 20:13	Dil Fac 500
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 83	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:37	Analyzed 08/23/21 20:13	Dil Fac

Method: NWTPH-Dx - Nort	hwest - Semi-Volati Result Qua		s (GC) - Silica Unit	Gel (Cleanup Prepared	Analyzed	Dil Fac
Allalyte	Nesuit Qua		UIIIL	=		Anaiyzeu	Dii Fac
TPH as Diesel Range	5000	33	mg/Kg	₩	08/20/21 16:57	08/29/21 00:28	5
TPH as Motor Oil Range	960	33	mg/Kg	₩	08/20/21 16:57	08/29/21 00:28	5
Surrogate	%Recovery Qua	lifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97	<u>50 - 150</u>			08/20/21 16:57	08/29/21 00:28	- 5

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-G8

Date Collected: 08/10/21 10:50 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-95

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1400	140	mg/Kg	— <u>—</u>	08/16/21 13:37	08/21/21 23:18	500

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 50 - 150 08/16/21 13:37 08/21/21 23:18 4-Bromofluorobenzene (Surr) 86 500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2700	33	mg/Kg	— <u></u>	08/20/21 16:57	08/29/21 00:50	5
TPH as Motor Oil Range	550	33	mg/Kg	₩	08/20/21 16:57	08/29/21 00:50	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	90	50 - 150			08/20/21 16:57	08/29/21 00:50	5

Client Sample ID: S-12.5-G8 Lab Sample ID: 570-66942-96

Date Collected: 08/10/21 10:55 Date Received: 08/12/21 10:15

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2400	130	mg/Kg	₽	08/16/21 13:37	08/21/21 23:42	100

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/16/21 13:37 08/21/21 23:42 4-Bromofluorobenzene (Surr) 91 50 - 150 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	12000	95	mg/Kg	₽	08/20/21 16:57	08/29/21 01:10	5
TPH as Motor Oil Range	2900	95	mg/Kg	☼	08/20/21 16:57	08/29/21 01:10	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111	50 - 150			08/20/21 16:57	08/29/21 01:10	5

Client Sample ID: S-2.5-F9 Lab Sample ID: 570-66942-97

Date Collected: 08/10/21 11:15 Date Received: 08/12/21 10:15

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result 28	Qualifier	RL 4.2	 Unit mg/Kg	<u>D</u>	Prepared 08/16/21 13:37	Analyzed 08/23/21 16:46	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150			08/16/21 13:37	08/23/21 16:46	20

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Method: MANTELLEDY - MOLE	iiwest - Seiiii-voiatile Fet	i Oleuili Fioduc	is (GC) - Silica	Ger	Jieanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	140	5.5	mg/Kg	<u></u>	08/20/21 16:57	08/29/21 01:29	1
TPH as Motor Oil Range	7.9	5.5	mg/Kg	₩	08/20/21 16:57	08/29/21 01:29	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96	50 - 150			08/20/21 16:57	08/29/21 01:29	1

Client Sample ID: S-5-F9 Lab Sample ID: 570-66942-98

Date Collected: 08/10/21 11:20 Date Received: 08/12/21 10:15

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwe	est - Volatile	Petroleun	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	510		64	mg/Kg	<u></u>	08/16/21 13:37	08/22/21 00:29	250
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 68	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:37	Analyzed 08/22/21 00:29	Dil Fac 250

Method: NWTPH-Dx - Nort Analyte		olatile Pet Qualifier	roleum Product	s (GC) - Silica Unit	Gel (Cleanup Prepared	Analyzed	Dil Fac
TPH as Diesel Range	12000	<u> </u>	120	mg/Kg	_ =		08/29/21 02:32	20
TPH as Motor Oil Range	7000		120	mg/Kg			08/29/21 02:32	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	76		50 - 150			08/20/21 16:57	08/29/21 02:32	20

Lab Sample ID: 570-66942-99 Client Sample ID: S-7.5-F9 Date Collected: 08/10/21 11:25 **Matrix: Solid**

Date Received: 08/12/21 10:15

Analyte		Qualifier	n Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	200		30	mg/Kg	-	08/16/21 13:37	08/22/21 00:52	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150			08/16/21 13:37	08/22/21 00:52	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	630		7.3	mg/Kg	☆	08/20/21 16:57	08/29/21 02:52	1
TPH as Motor Oil Range	190		7.3	mg/Kg	₩	08/20/21 16:57	08/29/21 02:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		50 - 150			08/20/21 16:57	08/29/21 02:52	1

Lab Sample ID: 570-66942-100 Client Sample ID: S-10-F9 **Matrix: Solid**

Date Collected: 08/10/21 11:30

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	260		36	mg/Kg	*	08/16/21 13:37	08/22/21 01:16	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/16/21 13:37	08/22/21 01:16	100

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	16000		54	mg/Kg	— <u></u>	08/20/21 16:57	08/29/21 03:12	5
TPH as Motor Oil Range	5400		54	mg/Kg	≎	08/20/21 16:57	08/29/21 03:12	5
Surrogate n-Octacosane (Surr)	%Recovery 93	Qualifier	Limits 50 - 150			Prepared 08/20/21 16:57	Analyzed 08/29/21 03:12	Dil Fac 5

Job ID: 570-66942-1

08/16/21 13:43 08/23/21 14:24

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-F9

Lab Sample ID: 570-66942-101 **Matrix: Solid**

Date Collected: 08/10/21 11:35

70

Date Received: 08/12/21 10:15

4-Bromofluorobenzene (Surr)

Method: NWTPH-Gx - North	Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	4.4	1.6	mg/Kg	*	08/16/21 13:43	08/23/21 14:24	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

50 - 150

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	270		23	mg/Kg	<u></u>	08/20/21 16:57	08/29/21 03:32	1
TPH as Motor Oil Range	210		23	mg/Kg	₽	08/20/21 16:57	08/29/21 03:32	1
Surrogate	%Recovery G	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			08/20/21 16:57	08/29/21 03:32	1

Client Sample ID: S-2.5-F9 DUP

Lab Sample ID: 570-66942-102 Date Collected: 08/10/21 11:15 **Matrix: Solid**

Date Received: 08/12/21 10:15

Analyte		Qualifier	n Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	27		4.2	mg/Kg	₩	08/16/21 13:53	08/23/21 17:10	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150			08/16/21 13:53	08/23/21 17:10	20

M	ethod: NWTPH-Dx - Northwe	st - Semi-V	olatile Peti	roleum Prod	ucts (GC) - Silica Gel (Cleanup		
Aı	nalyte	Result	Qualifier	RL	Unit D	Prepared	Analyzed	Dil Fac
TI	PH as Diesel Range	120		5.6	mg/Kg ☆	08/20/21 16:59	08/28/21 11:20	1
TF	PH as Motor Oil Range	ND		5.6	mg/Kg ☆	08/20/21 16:59	08/28/21 11:20	1
_	urrogate Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150		Prepared 08/20/21 16:59	Analyzed 08/28/21 11:20	Dil Fac

Client Sample ID: S-2.5-I8 Lab Sample ID: 570-66942-103 **Matrix: Solid**

Date Collected: 08/10/21 11:45

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - North	west - Volatile	Petroleui	m Products (GC	S)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	710		27	mg/Kg	≎	08/16/21 13:53	08/22/21 00:43	100
Surrogate 4-Bromofluorobenzene (Surr)	<u>%Recovery</u> 73	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:53	Analyzed 08/22/21 00:43	Dil Fac 100

Method: NWTPH-Dx - North	thwest - Semi-Volatile Result Qualifie		ts (GC) - Silica Unit	Gel (Cleanup Prepared	Analyzed	Dil Fac
Allalyte	Result Qualific	#I KL	Unit		Prepareu	Analyzeu	DII Fac
TPH as Diesel Range	6900	56	mg/Kg	₩	08/20/21 16:59	08/28/21 11:42	10
TPH as Motor Oil Range	1700	56	mg/Kg	₩	08/20/21 16:59	08/28/21 11:42	10
Surrogate	%Recovery Qualifie	er Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	141	50 - 150			08/20/21 16:59	08/28/21 11:42	10

Job ID: 570-66942-1

Lab Sample ID: 570-66942-104 **Client Sample ID: S-5-18**

Date Collected: 08/10/21 11:50 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nort	hwest - Volatile Pet	troleum Products (G	SC)				
Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2100	130	mg/Kg	₩	08/16/21 13:53	08/23/21 20:36	500
Surrogate	%Recovery Qua	lifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80	50 - 150			08/16/21 13:53	08/23/21 20:36	500

Method: NWTPH-Dx - North	thwest - Semi-Volatile Pe	troleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	8300	30	mg/Kg	-	08/20/21 16:59	08/28/21 13:56	5
TPH as Motor Oil Range	1500	30	mg/Kg	₩	08/20/21 16:59	08/28/21 13:56	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	127	50 - 150			08/20/21 16:59	08/28/21 13:56	5

Lab Sample ID: 570-66942-105 Client Sample ID: S-7.5-I8 **Matrix: Solid**

Date Collected: 08/10/21 11:55

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	57		16	mg/Kg	₩	08/16/21 13:53	08/22/21 01:30	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/16/21 13:53	08/22/21 01:30	100

Method: NWTPH-Dx - Northwe	st - Semi-V	olatile Petr	oleum Prod	ducts (GC) - Silica Ge	el C	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1100		6.3	mg/Kg	☼	08/20/21 16:59	08/28/21 14:17	1
TPH as Motor Oil Range	280		6.3	mg/Kg	₩	08/20/21 16:59	08/28/21 14:17	1
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/20/21 16:59	Analyzed 08/28/21 14:17	Dil Fac

Lab Sample ID: 570-66942-106 Client Sample ID: S-10-I8

Date Collected: 08/10/21 12:00

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1400		36	mg/Kg	*	08/16/21 13:53	08/22/21 01:54	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150			08/16/21 13:53	08/22/21 01:54	100

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4300	19	mg/Kg	*	08/20/21 16:59	08/28/21 14:39	2
TPH as Motor Oil Range	1800	19	mg/Kg	☼	08/20/21 16:59	08/28/21 14:39	2
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	129	50 - 150			08/20/21 16:59	08/28/21 14:39	2

Matrix: Solid

Lab Sample ID: 570-66942-107 Client Sample ID: S-12.5-I8

Date Collected: 08/10/21 12:05 Date Received: 08/12/21 10:15

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - North	west - Volatile	Petroleu	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1000		180	mg/Kg	<u></u>	08/16/21 13:53	08/22/21 02:17	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150			08/16/21 13:53	08/22/21 02:17	100

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	10000	44	mg/Kg	<u></u>	08/20/21 16:59	08/28/21 15:00	2
TPH as Motor Oil Range	5600	44	mg/Kg	₽	08/20/21 16:59	08/28/21 15:00	2
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	142	50 - 150			08/20/21 16:59	08/28/21 15:00	2

Client Sample ID: S-2.5-H7 Lab Sample ID: 570-66942-108 **Matrix: Solid**

Date Collected: 08/10/21 12:10

Date Received: 08/12/21 10:15

Analyte		Qualifier	n Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	170		20	mg/Kg	-	08/16/21 13:53	08/22/21 02:41	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150			08/16/21 13:53	08/22/21 02:41	100

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6500		28	mg/Kg	<u></u>	08/20/21 16:59	08/28/21 15:22	5
TPH as Motor Oil Range	3100		28	mg/Kg	₩	08/20/21 16:59	08/28/21 15:22	5
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/20/21 16:59	Analyzed 08/28/21 15:22	Dil Fac 5

Lab Sample ID: 570-66942-109 Client Sample ID: S-5-H7 **Matrix: Solid**

Date Collected: 08/10/21 12:15

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	370		23	mg/Kg	₩	08/16/21 13:53	08/22/21 03:05	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150			08/16/21 13:53	08/22/21 03:05	100

Method: NW I PH-DX - North		troleum Produc	is (GC) - Silica	Ger	Sleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	15000	150	mg/Kg	₽	08/20/21 16:59	08/30/21 04:53	25
TPH as Motor Oil Range	3900	150	mg/Kg	₩	08/20/21 16:59	08/30/21 04:53	25
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	127	50 - 150			08/20/21 16:59	08/30/21 04:53	25

Lab Sample ID: 570-66942-110

Client Sample ID: S-7.5-H7

Matrix: Solid

Job ID: 570-66942-1

Date Collected: 08/10/21 12:20 Date Received: 08/12/21 10:15

est - Volatile	Petroleur	n Products (GC	;)				
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
290		28	mg/Kg	-	08/16/21 13:53	08/22/21 03:28	100
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
63		50 - 150			08/16/21 13:53	08/22/21 03:28	100
	Result 290 %Recovery	Result Qualifier 290 %Recovery Qualifier	Result 290 Qualifier Qualifier 28 %Recovery Qualifier Limits	290 28 mg/Kg %Recovery Qualifier Limits	Result 290 Qualifier RL 28 Unit mg/Kg D mg/Kg %Recovery Qualifier Limits	Result 290 Qualifier 28 RL mg/Kg Unit mg/Kg D value 08/16/21 13:53 %Recovery Qualifier Limits Prepared	Result 290 Qualifier RL 28 Unit mg/Kg D 08/16/21 13:53 Prepared 08/16/21 13:53 Analyzed 08/22/21 03:28 %Recovery Qualifier Limits Prepared Analyzed

4000				Prepared	Analyzed	Dil Fac
1200	6.7	mg/Kg	<u></u>	08/20/21 16:59	08/28/21 16:05	1
500	6.7	mg/Kg	☼	08/20/21 16:59	08/28/21 16:05	,
%Recovery Qualifier	Limits			Prepared	Analvzed	Dil l
		500 6.7	500 6.7 mg/Kg %Recovery Qualifier Limits	500 6.7 mg/Kg %Recovery Qualifier Limits	500 6.7 mg/Kg ≈ 08/20/21 16:59 %Recovery Qualifier Limits Prepared	500 6.7 mg/Kg ≈ 08/20/21 16:59 08/28/21 16:05 %Recovery Qualifier Limits Prepared Analyzed

Client Sample ID: S-10-H7 Lab Sample ID: 570-66942-111

Date Collected: 08/10/21 12:25	Matrix: Solid
Date Received: 08/12/21 10:15	
Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	130		30	mg/Kg	☼	08/16/21 13:53	08/22/21 03:52	100
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:53	Analyzed 08/22/21 03:52	Dil Fac 100

Method: NWTPH-Dx - Nort			. ,	_	•		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	770	6.8	mg/Kg	-	08/20/21 16:59	08/28/21 16:26	1
TPH as Motor Oil Range	360	6.8	mg/Kg	₩	08/20/21 16:59	08/28/21 16:26	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105	50 - 150			08/20/21 16:59	08/28/21 16:26	1

Lab Sample ID: 570-66942-112 Client Sample ID: S-12.5-H7 Date Collected: 08/10/21 12:30 **Matrix: Solid**

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	38		14	mg/Kg	-	08/16/21 13:53	08/23/21 19:49	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	92		50 - 150			08/16/21 13:53	08/23/21 19:49	50

			• • •		•			
Analyte	Result Quali	ifier RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	230	7.6	mg/Kg	<u></u>	08/20/21 16:59	08/28/21 16:48	1	
TPH as Motor Oil Range	110	7.6	mg/Kg	₩	08/20/21 16:59	08/28/21 16:48	1	
Surrogate	%Recovery Quali	ifier Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	127	50 - 150			08/20/21 16:59	08/28/21 16:48	1	

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-I6

Lab Sample ID: 570-66942-113

Date Collected: 08/10/21 12:35 Date Received: 08/12/21 10:15

Matrix: Solid

Job ID: 570-66942-1

Method: NWTPH-Gx - Northw	est - Volatile	Petroleui	m Products (GC	()				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	140		20	mg/Kg	-	08/16/21 13:53	08/22/21 05:27	100
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:53	Analyzed 08/22/21 05:27	Dil Fac

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Pe	troleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	780	6.1	mg/Kg	<u></u>	08/20/21 16:59	08/28/21 17:09	1
TPH as Motor Oil Range	450	6.1	mg/Kg	₩	08/20/21 16:59	08/28/21 17:09	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	132	50 - 150			08/20/21 16:59	08/28/21 17:09	1

Client Sample ID: S-5-I6 Lab Sample ID: 570-66942-114

Date Received: 08/12/21 10:15

Date Collected: 08/10/21 12:40 **Matrix: Solid**

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 380 © 08/16/21 13:53 08/22/21 05:50 mg/Kg 100 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 63 50 - 150 08/16/21 13:53 08/22/21 05:50 100

Method: NWTPH-Dx - Northy	vest - Semi-V	olatile Peti	oleum Produ	cts (GC) - Silica (Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3500		63	mg/Kg	₩	08/20/21 16:59	08/30/21 05:16	10
TPH as Motor Oil Range	800		63	mg/Kg	₩	08/20/21 16:59	08/30/21 05:16	10
Surrogate n-Octacosane (Surr)		Qualifier	Limits 50 - 150			Prepared 08/20/21 16:59	Analyzed 08/30/21 05:16	Dil Fac

Client Sample ID: S-7.5-I6 Lab Sample ID: 570-66942-115

Date Collected: 08/10/21 12:45

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - North	west - Volatile	Petroleur	m Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	470		32	mg/Kg	☼	08/16/21 13:53	08/22/21 06:14	100
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	Limits 50 - 150			Prepared 08/16/21 13:53	Analyzed 08/22/21 06:14	Dil Fac

Method: NWTPH-Dx - Nor	thwest - Semi-Volatile	Petroleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifi	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1100	6.6	mg/Kg	<u></u>	08/20/21 16:59	08/28/21 17:53	1
TPH as Motor Oil Range	450	6.6	mg/Kg	☼	08/20/21 16:59	08/28/21 17:53	1
Surrogate	%Recovery Qualifi	ier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117	50 - 150			08/20/21 16:59	08/28/21 17:53	1

Matrix: Solid

Job ID: 570-66942-1 Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: 570-66942-116 **Client Sample ID: S-10-I6**

Date Collected: 08/10/21 12:50 **Matrix: Solid** Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleui	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	300		31	mg/Kg	₩	08/16/21 13:53	08/22/21 06:37	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150			08/16/21 13:53	08/22/21 06:37	100

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
TPH as Diesel Range	1000		7.2	mg/Kg	<u></u>	08/20/21 16:59	08/28/21 18:14	
TPH as Motor Oil Range	320		7.2	mg/Kg	☼	08/20/21 16:59	08/28/21 18:14	,
Surrogate	%Recovery 0	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	131		50 - 150			08/20/21 16:59	08/28/21 18:14	

Lab Sample ID: 570-66942-117 Client Sample ID: S-12.5-I6 Date Collected: 08/10/21 12:55 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nortl	nwest - Volatile	e Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	69		26	mg/Kg	*	08/16/21 13:53	08/22/21 07:01	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			08/16/21 13:53	08/22/21 07:01	100

Method: NWTPH-Dx - Nor	thwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.5	mg/Kg	-	08/20/21 16:59	08/28/21 18:36	1
TPH as Motor Oil Range	14	6.5	mg/Kg	₩	08/20/21 16:59	08/28/21 18:36	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124	50 - 150			08/20/21 16:59	08/28/21 18:36	1

Lab Sample ID: 570-66942-118 Client Sample ID: S-2.5-J7 **Matrix: Solid**

Date Collected: 08/10/21 13:05

Date Received: 08/12/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	60		18	mg/Kg	₽	08/16/21 13:53	08/22/21 07:25	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/16/21 13:53	08/22/21 07:25	100

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6700		140	mg/Kg	₽	08/20/21 16:59	08/28/21 18:58	25
TPH as Motor Oil Range	5900		140	mg/Kg	☼	08/20/21 16:59	08/28/21 18:58	25
Surrogate n-Octacosane (Surr)		Qualifier S1+	Limits 50 - 150			Prepared 08/20/21 16:59	Analyzed 08/28/21 18:58	Dil Fac

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-J7 Date Collected: 08/10/21 13:10 Lab Sample ID: 570-66942-119

Matrix: Solid

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northy	vest - Volatile	Petroleui	m Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	480		30	mg/Kg	— <u>→</u>	08/16/21 13:53	08/22/21 07:48	100
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 71	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:53	Analyzed 08/22/21 07:48	Dil Fac 100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
TPH as Diesel Range	470		6.4	mg/Kg	— <u></u>	08/20/21 16:59	08/28/21 19:20	
TPH as Motor Oil Range	170		6.4	mg/Kg	₩	08/20/21 16:59	08/28/21 19:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150			08/20/21 16:59	08/28/21 19:20	-

Lab Sample ID: 570-66942-120 Client Sample ID: S-7.5-J7 Date Collected: 08/10/21 13:15 **Matrix: Solid**

Date Received: 08/12/21 10:15

Date Received. 00/12/21 10.	10							
Method: NWTPH-Gx - Norti	hwest - Volatile	Petroleur	n Products (GC	*)				
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	700		30	mg/Kg	*	08/16/21 13:53	08/22/21 08:12	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			08/16/21 13:53	08/22/21 08:12	100

Method: NWTPH-Dx - Nort	thwest - Semi-Vo	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	830		6.3	mg/Kg	— <u></u>	08/20/21 16:59	08/28/21 19:41	1
TPH as Motor Oil Range	160		6.3	mg/Kg	₩	08/20/21 16:59	08/28/21 19:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		50 - 150			08/20/21 16:59	08/28/21 19:41	1

Lab Sample ID: 570-66942-121 Client Sample ID: S-10-J7 **Matrix: Solid**

Date Collected: 08/10/21 13:20

Date F	keceivea: U8/1	2/21 10:15	

Method: NWTPH-Gx - Northwest	- Volatile	Petroleun	n Products (C	GC)			
Analyte	Result	Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2200		390	mg/Kg	□ 08/16/21 13:53	08/24/21 11:03	1000
Surrogate % 4-Bromofluorobenzene (Surr)	Recovery 107	Qualifier	Limits 50 - 150		Prepared 08/16/21 13:53	Analyzed 08/24/21 11:03	Dil Fac 1000

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile P	etroleum Produc	ts (GC) - Silica	Gel (Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	10000	86	mg/Kg	₽	08/20/21 16:59	08/30/21 05:39	10
TPH as Motor Oil Range	1400	86	mg/Kg	₩	08/20/21 16:59	08/30/21 05:39	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119	50 - 150			08/20/21 16:59	08/30/21 05:39	10

Job ID: 570-66942-1

Client Sample ID: S-12.5-J7

Lab Sample ID: 570-66942-122 Date Collected: 08/10/21 13:25 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - North	nwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	910		52	mg/Kg	<u></u>	08/16/21 13:53	08/23/21 20:08	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150			08/16/21 13:53	08/23/21 20:08	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	730		9.8	mg/Kg	<u></u>	08/20/21 17:02	08/29/21 01:57	
TPH as Motor Oil Range	180		9.8	mg/Kg	₩	08/20/21 17:02	08/29/21 01:57	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
n-Octacosane (Surr)	125		50 - 150			08/20/21 17:02	08/29/21 01:57	

Client Sample ID: S-14.5-I6 Lab Sample ID: 570-66942-123 Date Collected: 08/10/21 13:00 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 4.5 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 77 50 - 150 08/16/21 13:43 08/24/21 10:12

Method: NWTPH-Dx - Nort				_	•		
Analyte	Result Qualifier	r RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	24	mg/Kg	<u>~</u>	08/20/21 17:02	08/29/21 02:20	1
TPH as Motor Oil Range	50	24	mg/Kg	₩	08/20/21 17:02	08/29/21 02:20	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	128	50 - 150			08/20/21 17:02	08/29/21 02:20	1

Client Sample ID: S-2.5-J5 Lab Sample ID: 570-66942-124 **Matrix: Solid**

Date Collected: 08/10/21 13:35 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northw	est - Volatile	e Petroleui	m Products (GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	390		23	mg/Kg	*	08/16/21 13:53	08/23/21 20:59	100
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/16/21 13:53	Analyzed 08/23/21 20:59	Dil Fac

Method: NWTPH-Dx - Nort			• •		•		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7800	28	mg/Kg	₩	08/20/21 17:02	08/29/21 02:42	5
TPH as Motor Oil Range	2800	28	mg/Kg	₩	08/20/21 17:02	08/29/21 02:42	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125	50 - 150			08/20/21 17:02	08/29/21 02:42	5

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: 570-66942-125 Client Sample ID: S-5-J5

Date Collected: 08/10/21 13:40 Date Received: 08/12/21 10:15

Matrix: Solid

Method: NWTPH-Gx - Northwest -	Volatile Petroleum P	roducts (GC)
	5 14 6 1161	

Analyte	Result Qualifie	r KL	Unit	ט	Prepared	Analyzea	DII Fac
TPH as Gasoline (C4-C13)	2100	220	mg/Kg	≎	08/16/21 13:53	08/24/21 08:37	1000

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 102 50 - 150 08/16/21 13:53 08/24/21 08:37 1000

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

				(-)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	55000		270	mg/Kg	-	08/20/21 17:02	08/30/21 06:00	50
TPH as Motor Oil Range	8200		270	mg/Kg	₽	08/20/21 17:02	08/30/21 06:00	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	166	S1+	50 - 150			08/20/21 17:02	08/30/21 06:00	50

Client Sample ID: S-7.5-J5 Lab Sample ID: 570-66942-126

Date Collected: 08/10/21 13:45 Date Received: 08/12/21 10:15

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1200	220	mg/Kg	<u></u>	08/16/21 13:53	08/24/21 11:29	1000

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 71 50 - 150 08/16/21 13:53 08/24/21 11:29 1000

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Method: MAALLING - MOLLIN	west - Sellii-Volatile	i etioleulli i louuci	is (GC) - Silica	Oei v	Jieanup		
Analyte	Result Qualifie	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7800		mg/Kg	₩	08/20/21 17:02	08/29/21 03:24	5
TPH as Motor Oil Range	1400	29	mg/Kg	₩	08/20/21 17:02	08/29/21 03:24	5
Surrogate	%Recovery Qualifie	er Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	128	50 - 150			08/20/21 17:02	08/29/21 03:24	5

Client Sample ID: S-10-J5 Lab Sample ID: 570-66942-127 **Matrix: Solid**

Date Collected: 08/10/21 13:50 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result 97	Qualifier	RL 29	 Unit mg/Kg	<u>D</u>	Prepared 08/16/21 13:53	Analyzed 08/23/21 21:51	Dil Fac 100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

08/16/21 13:53 08/23/21 21:51 92 100 4-Bromofluorobenzene (Surr) 50 - 150

Method: NWTPH-Dx -	- Northwest	· Semi-Volatile Petroleum Products (GC) - Silica Gel Clea	nun

Analyte	Result Qua	ilitier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13	6.8	mg/Kg	☼	08/20/21 17:02	08/29/21 04:31	1
TPH as Motor Oil Range	12	6.8	mg/Kg	₩	08/20/21 17:02	08/29/21 04:31	1
Surrogate	%Recovery Qua	nlifier Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 128 50 - 150 08/20/21 17:02 08/29/21 04:31

Dil Fac

Job ID: 570-66942-1

Analyzed

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-J5

Lab Sample ID: 570-66942-128 Matrix: Solid

Date Collected: 08/10/21 13:55 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier

08/16/21 13:53 08/24/21 10:37 TPH as Gasoline (C4-C13) 29 mg/Kg 63 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 08/16/21 13:53 08/24/21 10:37 92 50

Unit

D

Prepared

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 120 12 mg/Kg 08/20/21 17:02 08/30/21 06:21 08/20/21 17:02 08/30/21 06:21 12 mg/Kg **TPH as Motor Oil Range 51**

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 50 - 150 08/20/21 17:02 08/30/21 06:21 n-Octacosane (Surr) 127

Client Sample ID: S-2.5-H5 Lab Sample ID: 570-66942-129 **Matrix: Solid**

Date Collected: 08/10/21 14:00 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 480 mg/Kg 08/16/21 13:53 08/23/21 22:42 100

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 116 50 - 150 08/16/21 13:53 08/23/21 22:42 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range 1400 13 mg/Kg 08/20/21 17:02 08/29/21 05:14 2 **TPH as Motor Oil Range** 780 13 mg/Kg 08/20/21 17:02 08/29/21 05:14 2 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 141 50 - 150 08/20/21 17:02 08/29/21 05:14

Client Sample ID: S-5-H5 Lab Sample ID: 570-66942-130

Date Collected: 08/10/21 14:05

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 650 25 mg/Kg 08/16/21 13:53 08/23/21 23:08 100

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 08/16/21 13:53 08/23/21 23:08 4-Bromofluorobenzene (Surr) 67 50 - 150 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RLUnit Prepared Analyzed Dil Fac 4900 55 mg/Kg 08/20/21 17:02 08/30/21 06:43 10 **TPH as Diesel Range** 55 08/20/21 17:02 08/30/21 06:43 **TPH as Motor Oil Range** 1300 mg/Kg 10

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/20/21 17:02 08/30/21 06:43 121

Matrix: Solid

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-H5

Client: Cardno, Inc

Lab Sample ID: 570-66942-131

Date Collected: 08/10/21 14:10 **Matrix: Solid** Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Q	Qualifier	RL	ι	Jnit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	320		20	n	ng/Kg	₩	08/16/21 13:53	08/23/21 23:34	100
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	380	7.1	mg/Kg	<u></u>	08/20/21 17:02	08/29/21 05:59	1
TPH as Motor Oil Range	120	7.1	mg/Kg	₩	08/20/21 17:02	08/29/21 05:59	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123	50 - 150			08/20/21 17:02	08/29/21 05:59	1

Client Sample ID: S-10-H5 Lab Sample ID: 570-66942-132 **Matrix: Solid**

Date Collected: 08/10/21 14:15 Date Received: 08/12/21 10:15

Method: NWTPH-Gy - Northwest - Volatile Petroleum Products (GC)

Method: NWTPH-GX - North	iwest - voiatile	Petroleur	n Products (GC))				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	140		13	mg/Kg	-	08/16/21 13:53	08/24/21 01:17	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/16/21 13:53	08/24/21 01:17	100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

mothod. I	WITH THE DX - NOIGH	WCSt - Ochin-V	olutile i et	i Oleanii i 100		ou our	oicailap		
Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Dies	sel Range	1300		29	mg/Kg	<u></u>	08/20/21 17:02	08/29/21 06:20	5
TPH as Mot	or Oil Range	410		29	mg/Kg	₩	08/20/21 17:02	08/29/21 06:20	5
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane	(Surr)	126		50 - 150			08/20/21 17:02	08/29/21 06:20	5

Client Sample ID: S-12.5-H5 Lab Sample ID: 570-66942-133 **Matrix: Solid**

Date Collected: 08/10/21 14:20 Date Received: 08/12/21 10:15

Mathod: NWTPH-Gy - Northwest - Volatile Petroleum Products (GC)

Method: NW I PH-GX - Northwe	est - volatile	Petroleun	1 Products (GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	9.2		3.7	mg/Kg	*	08/16/21 13:53	08/23/21 19:03	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150			08/16/21 13:53	08/23/21 19:03	20

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifi	ier KL	Unit L	Prepared	Anaiyzed	DII Fac	
TPH as Diesel Range	ND	7.6	mg/Kg	08/20/21 17:02	08/29/21 06:42	1	
TPH as Motor Oil Range	36	7.6	mg/Kg ≎	08/20/21 17:02	08/29/21 06:42	1	
Surrogate	%Recovery Qualifi	ier Limits		Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	129	50 150		08/20/21 17:02	08/29/21 06:42		

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-14.5-H5

Date Received: 08/12/21 10:15

Date Collected: 08/10/21 14:25

Lab Sample ID: 570-66942-134

Matrix: Solid

Method: NWT	PH-Gx - Northwest	- Volatile Petroleui	m Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	63	17	mg/Kg	≎	08/16/21 13:53	08/23/21 19:26	20
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

48 S1-50 - 150 08/16/21 13:53 08/23/21 19:26 4-Bromofluorobenzene (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	200	14	mg/Kg	<u></u>	08/20/21 17:02	08/29/21 07:04	1
TPH as Motor Oil Range	62	14	mg/Kg	≎	08/20/21 17:02	08/29/21 07:04	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
	TPH as Diesel Range TPH as Motor Oil Range	TPH as Diesel Range 200 TPH as Motor Oil Range 62	TPH as Diesel Range 200 14 TPH as Motor Oil Range 62 14	TPH as Diesel Range20014mg/KgTPH as Motor Oil Range6214mg/Kg	TPH as Diesel Range 200 14 mg/Kg ☆ TPH as Motor Oil Range 62 14 mg/Kg ☆	TPH as Diesel Range 200 14 mg/Kg	TPH as Diesel Range 200 14 mg/Kg © 08/20/21 17:02 08/29/21 07:04 TPH as Motor Oil Range 62 14 mg/Kg © 08/20/21 17:02 08/29/21 07:04

n-Octacosane (Surr) 125 50 - 150 08/20/21 17:02 08/29/21 07:04

Client Sample ID: S-5-D5 DUP Lab Sample ID: 570-66942-135 Date Collected: 08/09/21 14:15 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result 300	Qualifier	RL 26	Unit mg/Kg	_ <u>D</u>	Prepared 08/16/21 13:53	Analyzed 08/21/21 20:22	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared	Analyzed 08/21/21 20:22	Dil Fac

Mothod: NWTDH-Dv - Northwest - Sami-Volatile Petroleum Products (GC) - Silica Gel Cleanun

Wethod: NW I PH-DX - Nor	tnwest - Semi-volatile Pe	troleum Produc	ts (GC) - Silica	Ger	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4000	33	mg/Kg	-	08/20/21 17:02	08/29/21 07:26	5
TPH as Motor Oil Range	1400	33	mg/Kg	≎	08/20/21 17:02	08/29/21 07:26	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	148	50 - 150			08/20/21 17:02	08/29/21 07:26	5

Client Sample ID: S-10-E4 DUP

Lab Sample ID: 570-66942-136 Date Collected: 08/09/21 14:50 **Matrix: Solid**

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petrol	oleum Products (GC)
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	140		51	mg/Kg		08/16/21 13:53	08/21/21 20:46	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150			08/16/21 13:53	08/21/21 20:46	100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	42		7.1	mg/Kg	₩	08/20/21 17:02	08/29/21 07:49	1
TPH as Motor Oil Range	34		7.1	mg/Kg	₩	08/20/21 17:02	08/29/21 07:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

119 08/20/21 17:02 08/29/21 07:49 n-Octacosane (Surr) 50 - 150

Client Sample ID: S-10-D1 DUP

Date Collected: 08/09/21 16:05 Date Received: 08/12/21 10:15

Client: Cardno, Inc

Lab Sample ID: 570-66942-137

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	190	69	mg/Kg	*	08/16/21 13:53	08/21/21 21:09	100
Surrogato	%Pocovery Qualifier	l imite			Propared	Analyzod	Dil Eac

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 81
 Limits 50 - 150
 Prepared 08/16/21 13:53
 Analyzed 08/21/21 21:09
 Dil Fac 08/16/21 13:53

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	170	10	mg/Kg	<u></u>	08/20/21 17:02	08/29/21 08:10	1
TPH as Motor Oil Range	72	10	mg/Kg	₩	08/20/21 17:02	08/29/21 08:10	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 50 - 150
 08/20/21 17:02
 08/29/21 08:10
 1

Client Sample ID: S-10-F9 DUP

Date Collected: 08/10/21 11:30

Date Collected: 08/10/21 11:30 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-138

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result 470	Qualifier	RL 59	Uni mg/	 Prepared 08/16/21 13:53	Analyzed 08/21/21 21:33	Dil Fac	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 72
 Limits 50 - 150
 Prepared 08/16/21 13:53
 Analyzed 08/21/21 21:33
 Dil Fac 08/16/21 13:53

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Michiga. MW II II-DX - Mort	iiwest - Ocilii-Volatile i	en oleann i Todac	13 (GG) - Gilica	OCI V	oleanap		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13000	200	mg/Kg	-	08/20/21 17:02	08/30/21 07:06	10
TPH as Motor Oil Range	5300	200	mg/Kg	₩	08/20/21 17:02	08/30/21 07:06	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	57	50 150			08/20/21 17:02	08/30/21 07:06	10

Client Sample ID: S-5-J5 DUP Lab Sample ID: 570-66942-139

Date Collected: 08/10/21 13:40

Date Received: 08/12/21 10:15

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1600		100	mg/Kg	☆	08/16/21 13:53	08/21/21 21:57	500
	0/-					_		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1 Promofluorobonzono (Curr)	70		FO 150			00/16/21 12:52	09/21/21 21:57	500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Method: NWTPH-DX - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	59000		540	mg/Kg	*	08/20/21 17:02	08/30/21 07:27	100
TPH as Motor Oil Range	8200		540	mg/Kg	₩	08/20/21 17:02	08/30/21 07:27	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	186	S1+	50 - 150			08/20/21 17:02	08/30/21 07:27	100

Client Sample Results

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-H5 DUP

Lab Sample ID: 570-66942-140

Date Collected: 08/10/21 14:05 Date Received: 08/12/21 10:15

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac 48 08/16/21 13:53 08/23/21 20:26 TPH as Gasoline (C4-C13) 530 mg/Kg 100 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 167 S1+ 50 - 150 08/16/21 13:53 08/23/21 20:26 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 1400 32 mg/Kg 08/20/21 17:02 08/29/21 09:16 350 32 mg/Kg 08/20/21 17:02 08/29/21 09:16 **TPH as Motor Oil Range** %Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/20/21 17:02 08/29/21 09:16 124

Client Sample ID: S-7.5-H7 DUP Lab Sample ID: 570-66942-141 Date Collected: 08/10/21 12:20 Matrix: Solid

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 08/17/21 15:18 08/23/21 20:55 TPH as Gasoline (C4-C13) 330 mg/Kg 100 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 139 50 - 150 08/17/21 15:18 08/23/21 20:55 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 140 6.7 mg/Kg 08/20/21 17:02 08/29/21 09:37 **TPH as Motor Oil Range 82** 6.7 mg/Kg 08/20/21 17:02 08/29/21 09:37 %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 50 - 150 n-Octacosane (Surr) 124 08/20/21 17:02 08/29/21 09:37

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-66942-1	S-5-C2	86	
570-66942-2	S-7.5-C2	85	
570-66942-3	S-10-C2	62	
570-66942-4	S-12.5-C2	67	
570-66942-5	S-5-C4	75	
570-66942-6	S-7.5-C4	84	
570-66942-7	S-10-C4	87	
570-66942-8	S-12.5-C4	66	
570-66942-9	S-2.5-C6	67	
570-66942-10	S-5-C6	54	
70-66942-11	S-7.5-C6	70	
570-66942-12	S-10-C6	72	
570-66942-13	S-2.5-C8	89	
570-66942-14	S-5-C8	81	
570-66942-15	S-7.5-C8	79	
570-66942-16	S-10-C8	76	
570-66942-17	S-12.5-C8	64	
570-66942-18	S-2.5-D9	85	
70-66942-19	S-5-D9	80	
70-66942-20	S-7.5-D9	70	
70-66942-21	S-10-D9	64	
70-66942-22	S-12.5-D9	67	
570-66942-23	S-2.5-E8	90	
70-66942-24	S-5-E8	68	
70-66942-25	S-7.5-E8	95	
70-66942-26	S-10-E8	77	
70-66942-27	S-12.5-E8	69	
570-66942-28	S-2.5-D7	71	
70-66942-29	S-5-D7	69	
570-66942-30	S-7.5-D7	84	
570-66942-31	S-10-D7	85	
570-66942-32	S-12.5-D7	73	
570-66942-33	S-2.5-E6	75	
570-66942-34	S-5-E6	77	
570-66942-35	S-7.5-E6	169 S1+	
70-66942-36	S-10-E6	80	
570-66942-37	S-12.5-E6	77	
570-66942-38	S-2.5-D5	60	
570-66942-39	S-5-D5	73	
70-66942-40	S-7.5-D5	81	
570-66942-41	S-10-D5	35 S1-	
570-66942-42	S-12.5-D5	87	
570-66942-43	S-2.5-E4	73	
570-66942-44	S-5-E4	89	
70-66942-45	S-7.5-E4	81	
570-66942-46	S-10-E4	80	
570-66942-47	S-12.5-E4	116	
570-66942-48	S-2.5-D3	69	
570-66942-49	S-5-D3	73	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

			Devent Comments Description (According to Limite)
		DED4	Percent Surrogate Recovery (Acceptance Limits)
Lab Camala ID	Olivert Consulty ID	BFB1	
Lab Sample ID 570-66942-50	Client Sample ID S-7.5-D3	<u>(50-150)</u> 92	
570-66942-51	S-10-D3	92 86	
570-66942-52	S-12.5-D3	88	
570-66942-53	S-2.5-E2	84	
570-66942-54	S-5-E2	73	
570-66942-55	S-7.5-E2	69	
570-66942-56	S-10-E2	70	
570-66942-57	S-12.5-E2	80	
570-66942-58	S-2.5-D1	74	
570-66942-59	S-5-D1	78	
570-66942-60	S-7.5-D1	64	
570-66942-61	S-10-D1	90	
570-66942-62	S-12.5-D1	98	
570-66942-63	S-2.5-G2	66	
570-66942-64	S-5-G2	90	
570-66942-66	S-10-G2	17 S1-	
570-66942-67	S-12.5-G2	80	
570-66942-68	S-2.5-F3	71	
570-66942-69	S-5-F3	65	
570-66942-70	S-10-F3	96	
570-66942-71	S-12.5-F3	64	
570-66942-72	S-2.5-G4	104	
570-66942-73	S-5-G4	110	
570-66942-74	S-7.5-G4	79	
570-66942-75	S-10-G4	106	
570-66942-76	S-12.5-G4	79	
570-66942-77	S-2.5-F5	105	
570-66942-78	S-5-F5	211 S1+	
570-66942-79	S-7.5-F5	173 S1+	
570-66942-80	S-10-F5	113	
570-66942-81	S-12.5-F5	71	
570-66942-82	S-2.5-G6	71	
570-66942-83	S-5-G6	74	
570-66942-84	S-7.5-G6	79	
570-66942-85	S-10-G6	91	
570-66942-86	S-12.5-G6	86	
570-66942-87	S-2.5-F7	64	
570-66942-88	S-5-F7	74	
570-66942-89	S-7.5-F7	90	
570-66942-90	S-10-F7	66	
570-66942-91	S-12.5-F7	68	
570-66942-92	S-2.5-G8	76	
570-66942-93	S-5-G8	73	
570-66942-94	S-7.5-G8	83	
570-66942-95	S-10-G8	86	
570-66942-96	S-12.5-G8	91	
570-66942-97	S-2.5-F9	84	
570-66942-98	S-5-F9	68	
570-66942-99	S-7.5-F9	95	
570-66942-100	S-10-F9	74	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

Matrix: Solid			Prep Type: Total/NA
			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	,
Lab Sample ID	Client Sample ID	(50-150)	
570-66942-101	S-12.5-F9	70	
570-66942-102	S-2.5-F9 DUP	86	
570-66942-103	S-2.5-I8	73	
570-66942-104	S-5-I8	80	
570-66942-105	S-7.5-I8	85	
570-66942-106	S-10-I8	94	
570-66942-107	S-12.5-I8	70	
570-66942-108	S-2.5-H7	67	
570-66942-109	S-5-H7	64	
570-66942-110	S-7.5-H7	63	
570-66942-111	S-10-H7	74	
570-66942-112	S-12.5-H7	92	
570-66942-113	S-2.5-I6	66	
570-66942-114	S-5-I6	63	
570-66942-115	S-7.5-I6	64	
570-66942-116	S-10-I6	73	
570-66942-117	S-12.5-I6	72	
570-66942-118	S-2.5-J7	76	
570-66942-119	S-5-J7	71	
570-66942-120	S-7.5-J7	72	
570-66942-121	S-10-J7	107	
570-66942-122	S-12.5-J7	70	
570-66942-123	S-14.5-I6	77	
570-66942-124	S-2.5-J5	76	
570-66942-125	S-5-J5	102	
570-66942-126	S-7.5-J5	71	
570-66942-127	S-10-J5	92	
570-66942-128	S-12.5-J5	92	
570-66942-129	S-2.5-H5	116	
570-66942-130	S-5-H5	67	
570-66942-131	S-7.5-H5	127	
570-66942-132	S-10-H5	114	
570-66942-133	S-12.5-H5	74	
570-66942-134	S-14.5-H5	48 S1-	
570-66942-135	S-5-D5 DUP	74	
570-66942-136	S-10-E4 DUP	79	
570-66942-137	S-10-D1 DUP	81	
570-66942-138	S-10-F9 DUP	72	
570-66942-139	S-5-J5 DUP	70	
570-66942-140	S-5-H5 DUP	167 S1+	
570-66942-141	S-7.5-H7 DUP	139	
LCS 570-171922/3	Lab Control Sample	102	
LCS 570-172337/3	Lab Control Sample	87	
LCS 570-172559/35	Lab Control Sample	97	
LCS 570-172815/4	Lab Control Sample	97	
LCS 570-172015/4	Lab Control Sample	107	
LCS 570-173152/9	Lab Control Sample	107	
LCS 570-173132/9	Lab Control Sample	92	
LCS 570-173340/3	Lab Control Sample	111	
LCS 570-173340/3	Lab Control Sample	112	
	Lab Control Cample	112	

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Job ID: 570-66942-1

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

		BFB1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(50-150)	
LCS 570-173418/31	Lab Control Sample		
LCS 570-173454/3	Lab Control Sample	105	
LCS 570-173459/3	Lab Control Sample	77	
LCS 570-173725/15	Lab Control Sample	91	
LCS 570-173959/3	Lab Control Sample	112	
LCSD 570-171922/4	Lab Control Sample Dup	102	
LCSD 570-172337/4	Lab Control Sample Dup	92	
LCSD 570-172559/36	Lab Control Sample Dup	94	
LCSD 570-172815/5	Lab Control Sample Dup	99	
LCSD 570-173135/10	Lab Control Sample Dup	98	
LCSD 570-173152/10	Lab Control Sample Dup	114	
LCSD 570-173304/33	Lab Control Sample Dup	91	
LCSD 570-173340/4	Lab Control Sample Dup	104	
LCSD 570-173393/4	Lab Control Sample Dup	119	
LCSD 570-173418/32	Lab Control Sample Dup	97	
LCSD 570-173454/4	Lab Control Sample Dup	108	
LCSD 570-173459/4	Lab Control Sample Dup	74	
LCSD 570-173725/16	Lab Control Sample Dup	91	
LCSD 570-173959/4	Lab Control Sample Dup	91	
MB 570-171922/5	Method Blank	85	
MB 570-172337/5	Method Blank	65	
MB 570-172337/6	Method Blank	54	
MB 570-172559/37	Method Blank	73	
MB 570-172559/57	Method Blank	73	
MB 570-172815/7	Method Blank	57	
MB 570-173135/12	Method Blank	79	
MB 570-173152/11	Method Blank	90	
MB 570-173152/12	Method Blank	89	
MB 570-173304/35	Method Blank	68	
MB 570-173340/5	Method Blank	94	
MB 570-173340/6	Method Blank	82	
MB 570-173393/6	Method Blank	86	
MB 570-173418/33	Method Blank	82	
MB 570-173454/5	Method Blank	88	
MB 570-173454/6	Method Blank	87	
MB 570-173459/21	Method Blank	76	
MB 570-173459/5	Method Blank	59	
MB 570-173725/17	Method Blank	84	
MB 570-173725/18	Method Blank	82	
MB 570-173959/5	Method Blank	77	

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Silica Gel Cleanup

_			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-66942-1	S-5-C2	114	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Silica Gel Cleanup

Matrix: Solid			Prep Type: Silica Gel Cleanup
			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-66942-1 MS	S-5-C2	114	
570-66942-1 MS	S-5-C2	105	
570-66942-1 MSD	S-5-C2	110	
570-66942-1 MSD	S-5-C2	117	
570-66942-2	S-7.5-C2	116	
570-66942-3	S-10-C2	108	
570-66942-4	S-12.5-C2	114	
570-66942-5	S-5-C4	113	
570-66942-6	S-7.5-C4	110	
570-66942-7	S-10-C4	116	
570-66942-8	S-12.5-C4	111	
570-66942-9	S-2.5-C6	153 S1+	
570-66942-10 - DL	S-5-C6	89	
570-66942-11	S-7.5-C6	129	
570-66942-12	S-10-C6	130	
570-66942-13	S-2.5-C8	119	
570-66942-14	S-5-C8	119	
570-66942-15	S-7.5-C8	110	
570-66942-16	S-10-C8	153 S1+	
570-66942-17	S-12.5-C8	117	
570-66942-18	S-2.5-D9	110	
570-66942-19	S-5-D9	114	
570-66942-20	S-7.5-D9	140	
570-66942-21	S-10-D9	123	
570-66942-22	S-12.5-D9	123	
570-66942-23	S-2.5-E8	117	
570-66942-23 MS	S-2.5-E8	104	
570-66942-23 MS	S-2.5-E8	110	
570-66942-23 MSD	S-2.5-E8	99	
570-66942-23 MSD	S-2.5-E8	108	
570-66942-24	S-5-E8	114	
570-66942-25 - DL	S-7.5-E8	110	
570-66942-26 - DL	S-10-E8	124	
570-66942-27 - DL	S-10-E0 S-12.5-E8	82	
570-66942-28	S-2.5-D7	117	
570-66942-29	S-5-D7	128	
570-66942-30	S-7.5-D7	107	
570-66942-31	S-10-D7	108	
570-66942-32	S-12.5-D7	122	
570-66942-33	S-2.5-E6	117	
570-66942-34 - DL	S-5-E6	178 S1+	
570-66942-35	S-7.5-E6	176 31+	
570-66942-36	S-10-E6	151 S1+	
570-66942-37	S-10-E0 S-12.5-E6	127	
570-66942-37	S-12.5-E6 S-2.5-D5	106	
570-66942-39	S-2.5-D5 S-5-D5	154 S1+	
	S-5-D5 S-7.5-D5	154 5 1+	
570-66942-40 570-66042-41			
570-66942-41	S-10-D5	157 S1+	
570-66942-42 570-66942-43	S-12.5-D5	109	
570-66942-43	S-2.5-E4	110	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-66942-44	S-5-E4	125	
70-66942-45	S-7.5-E4	117	
70-66942-46	S-10-E4	116	
70-66942-47	S-12.5-E4	110	
70-66942-48	S-2.5-D3	124	
70-66942-49	S-5-D3	106	
70-66942-49 MS	S-5-D3	87	
570-66942-49 MS	S-5-D3	97	
70-66942-49 MSD	S-5-D3	147	
570-66942-49 MSD	S-5-D3	110	
70-66942-50	S-7.5-D3	124	
70-66942-51	S-10-D3	115	
70-66942-52	S-12.5-D3	105	
570-66942-53	S-2.5-E2	123	
570-66942-54	S-5-E2	120	
570-66942-55	S-7.5-E2	110	
570-66942-56	S-10-E2	111	
570-66942-57	S-12.5-E2	108	
570-66942-58	S-2.5-D1	72	
570-66942-59	S-5-D1	105	
570-66942-60	S-7.5-D1	133	
570-66942-61	S-10-D1	121	
570-66942-61 MS	S-10-D1	112	
570-66942-61 MS	S-10-D1	114	
570-66942-61 MSD	S-10-D1	116	
570-66942-61 MSD	S-10-D1	116	
570-66942-62	S-12.5-D1	113	
570-66942-63	S-2.5-G2	123	
570-66942-64	S-5-G2	116	
570-66942-66	S-10-G2	98	
570-66942-67	S-12.5-G2	125	
570-66942-68	S-2.5-F3	141	
570-66942-69	S-5-F3	120	
570-66942-70	S-10-F3	125	
570-66942-71	S-12.5-F3 S-2.5-G4	116 117	
570-66942-72 - DL			
570-66942-73	S-5-G4	122	
570-66942-74 570-66942-75	S-7.5-G4	119	
	S-10-G4	123	
570-66942-76	S-12.5-G4	132 118	
570-66942-77 570-66942-78 - DL	S-2.5-F5		
	S-5-F5	152 S1+	
570-66942-79 - DL	S-7.5-F5	138	
570-66942-80 - DL	S-10-F5	140	
70-66942-81	S-12.5-F5	124	
570-66942-82	S-2.5-G6	97	
70-66942-82 MS	S-2.5-G6	99	
70-66942-82 MS	S-2.5-G6	99	
570-66942-82 MSD	S-2.5-G6	98	
570-66942-82 MSD	S-2.5-G6	92	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	r ercent Surrogate Necovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(50-150)	
570-66942-83	S-5-G6	96	
570-66942-84	S-7.5-G6	102	
570-66942-85	S-10-G6	95	
570-66942-86	S-12.5-G6	101	
570-66942-87	S-2.5-F7	93	
570-66942-88 - DL	S-5-F7	123	
570-66942-89 - DL2	S-7.5-F7	289 S1+	
570-66942-90	S-10-F7	94	
570-66942-91	S-12.5-F7	102	
570-66942-92	S-2.5-G8	98	
570-66942-93	S-5-G8	98	
570-66942-94	S-7.5-G8	97	
570-66942-95	S-10-G8	90	
570-66942-96	S-12.5-G8	111	
570-66942-97	S-2.5-F9	96	
570-66942-98	S-5-F9	76	
570-66942-99	S-7.5-F9	95	
570-66942-100	S-10-F9	93	
570-66942-101	S-12.5-F9	97	
570-66942-102	S-2.5-F9 DUP	120	
570-66942-102 MS	S-2.5-F9 DUP	102	
570-66942-102 MSD	S-2.5-F9 DUP	131	
570-66942-103	S-2.5-18	141	
570-66942-104	S-5-18	127	
570-66942-105	S-7.5-18	124	
570-66942-106	S-10-18	129	
570-66942-107	S-12.5-I8	142	
570-66942-108	S-2.5-H7	142	
570-66942-109	S-5-H7		
570-66942-110 570-66942-110	S-7.5-H7	127 122	
		105	
570-66942-111 570-66942-112	S-10-H7 S-12.5-H7	127	
570-66942-113	S-2.5-16	132	
570-66942-114	S-5-16	119	
570-66942-115	S-7.5-16	117	
570-66942-116	S-10-I6	131	
570-66942-117	S-12.5-I6	124	
570-66942-118	S-2.5-J7	160 S1+	
570-66942-119	S-5-J7	119	
570-66942-120	S-7.5-J7	105	
570-66942-121	S-10-J7	119	
570-66942-122	S-12.5-J7	125	
570-66942-122 MS	S-12.5-J7	102	
570-66942-122 MS	S-12.5-J7	114	
570-66942-122 MSD	S-12.5-J7	119	
570-66942-122 MSD	S-12.5-J7	111	
570-66942-123	S-14.5-I6	128	
570-66942-124	S-2.5-J5	125	
570-66942-125	S-5-J5	166 S1+	
570-66942-126	S-7.5-J5	128	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Prep Type: Silica Gel Clean
		07001	Percent Surrogate Recovery (Acceptance Limits)
l ah Camania ID	Olient Comple ID	OTCSN (50.450)	
Lab Sample ID 570-66942-127	S-10-J5	(50-150)	
570-66942-128	S-12.5-J5	127	
570-66942-129	S-2.5-H5	141	
570-66942-130	S-5-H5	121	
570-66942-131	S-7.5-H5	123	
570-66942-132 570-66942-133	S-10-H5 S-12.5-H5	126 129	
570-66942-134	S-14.5-H5	125	
570-66942-135	S-5-D5 DUP	148	
570-66942-136	S-10-E4 DUP	119	
570-66942-137	S-10-D1 DUP	123	
570-66942-138	S-10-F9 DUP	57	
570-66942-139	S-5-J5 DUP	186 S1+	
70-66942-140	S-5-H5 DUP	124	
570-66942-141	S-7.5-H7 DUP	124	
.CS 570-173212/26-A	Lab Control Sample	111	
.CS 570-173212/2-A	Lab Control Sample	117	
.CS 570-173215/26-A	Lab Control Sample	106	
.CS 570-173215/2-A	Lab Control Sample	109	
CS 570-173220/26-A	Lab Control Sample	103	
CS 570-173220/2-A	Lab Control Sample	110	
CS 570-173225/26-A	Lab Control Sample	120	
.CS 570-173225/2-A	Lab Control Sample	117	
.CS 570-173226/26-A	Lab Control Sample	91	
.CS 570-173226/2-A	Lab Control Sample	98	
.CS 570-173228/26-A	Lab Control Sample	122	
.CS 570-173228/2-A	Lab Control Sample	120	
.CS 570-173229/26-A	Lab Control Sample	119	
.CS 570-173229/2-A	Lab Control Sample	119	
.CSD 570-173212/27-A	Lab Control Sample Dup	110	
.CSD 570-173212/3-A	Lab Control Sample Dup	112	
CSD 570-173215/27-A	Lab Control Sample Dup	103	
.CSD 570-173215/3-A	Lab Control Sample Dup	109	
.CSD 570-173220/27-A	Lab Control Sample Dup	102	
.CSD 570-173220/3-A	Lab Control Sample Dup	117	
CSD 570-173225/27-A	Lab Control Sample Dup	114	
CSD 570-173225/3-A	Lab Control Sample Dup	118	
CSD 570-173226/27-A	Lab Control Sample Dup	92	
CSD 570-173226/3-A	Lab Control Sample Dup	98	
.CSD 570-173228/27-A	Lab Control Sample Dup	116	
.CSD 570-173228/3-A	Lab Control Sample Dup	118	
CSD 570-173229/27-A	Lab Control Sample Dup	120	
.CSD 570-173229/3-A	Lab Control Sample Dup	113	
/IB 570-173212/1-A	Method Blank	113	
ИВ 570-173215/1-A	Method Blank	108	
MB 570-173220/1-A	Method Blank	114	
/IB 570-173225/1-А	Method Blank	116	
MB 570-173226/1-A	Method Blank	97	
/IB 570-173228/1-A	Method Blank	117	
MB 570-173229/1-A	Method Blank	120	

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Job ID: 570-66942-1 Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Silica Gel Cleanup

Percent Surrogate Recovery (Acceptance Limits)

OTCSN

Lab Sample ID Client Sample ID 570-66942-102 MS S-2.5-F9 DUP S-2.5-F9 DUP 570-66942-102 MSD

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: MB 570-171922/5

Lab Sample ID: LCS 570-171922/3

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 171922

	IVID IVID						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND ND	0.25	mg/Kg			08/17/21 11:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150		08/17/21 11:37	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 171922

	Spike	LCS LCS			%Rec.	
Analyte	Added	Result Qualifier	Unit [%Rec	Limits	
TPH as Gasoline (C4-C13)	2.12	1.976	mg/Kg	93	77 - 128	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-171922/4 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 171922

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.11	1.973		mg/Kg		93	77 - 128	0	16

LCSD LCSD

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	50 - 150

Lab Sample ID: MB 570-172337/5 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 172337

Analyte TPH as Gasoline (C4-C13)	Result Qualifier ND	 Unit mg/Kg	_ <u>D</u>	Prepared	Analyzed 08/18/21 13:15	Dil Fac
	MB MB					

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/18/21 13:15 65

Lab Sample ID: MB 570-172337/6

Matrix: Solid

Analysis Batch: 172337							тор турог п	, tai, 11, 1
-	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/18/21 13:38	20
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 150				08/18/21 13:38	20

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Client Sample ID: Method Blank

Prep Type: Total/NA

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Prep Type: Total/NA

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-172337/3 **Client Sample ID: Lab Control Sample**

LCS LCS

Matrix: Solid

Analysis Batch: 172337

%Rec.

Added Result Qualifier Limits Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.12 1.852 mg/Kg 87 77 - 128

Spike

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-172337/4 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 172337

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.11 1.852 mg/Kg 88 77 - 128 n

LCSD LCSD

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 92

Client Sample ID: Method Blank Lab Sample ID: MB 570-172559/37

Matrix: Solid

Analysis Batch: 172559

Prep Type: Total/NA

Analyte Qualifier RL Unit Prepared Analyzed Dil Fac Result TPH as Gasoline (C4-C13) 0.25 $\overline{\mathsf{ND}}$ mg/Kg 08/19/21 02:08

MB MB

MB MB

Qualifier Analyzed Surrogate %Recovery Limits Prepared Dil Fac 4-Bromofluorobenzene (Surr) 73 50 - 150 08/19/21 02:08

Lab Sample ID: MB 570-172559/57 Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 172559

Prep Type: Total/NA MB MB

RL Unit Analyte Result Qualifier Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) $\overline{\mathsf{ND}}$ 5.0 08/19/21 10:05 mg/Kg

MB MB Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/19/21 10:05 73

Lab Sample ID: LCS 570-172559/35

Matrix: Solid

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Analysis Batch: 172559

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec 2.13 77 - 128 TPH as Gasoline (C4-C13) 1.788 mg/Kg 84

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 97

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Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: LCSD 570-172559/36

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 172559

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.13	1.843		mg/Kg		87	77 - 128	3	16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr)

Lab Sample ID: MB 570-172815/7 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 172815

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 08/19/21 18:04

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 08/19/21 18:04 57

Lab Sample ID: LCS 570-172815/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 172815

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	 2.12	1.925		mg/Kg		91	77 - 128	

LCS LCS

Surrogate **%Recovery Qualifier** Limits

4-Bromofluorobenzene (Surr) 97 50 - 150

Lab Sample ID: LCSD 570-172815/5 Client Sample ID: Lab Control Sample Dup **Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 172815

	Эріке	LCSD	LCSD				%Rec.		KPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
TPH as Gasoline (C4-C13)	2.11	1.962		mg/Kg		93	77 - 128	2	16	

LCCD LCCD

Chika

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 99

Lab Sample ID: MB 570-173135/12

Matrix: Solid Analysis Batch: 173135							Prep Type: To	otal/NA
	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/20/21 18:04	20
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150		-		08/20/21 18:04	20

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Client Sample ID: Method Blank

DDD

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-173135/9 **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 173135

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.13 1.848 mg/Kg 87 77 - 128

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 107 50 - 150

Lab Sample ID: LCSD 570-173135/10 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173135

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.13 1.828 mg/Kg 86 77 - 128

LCSD LCSD

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 98

Client Sample ID: Method Blank Lab Sample ID: MB 570-173152/11 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173152

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.25 $\overline{\mathsf{ND}}$ mg/Kg 08/20/21 20:14

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 90 50 - 150 08/20/21 20:14

Lab Sample ID: MB 570-173152/12

Matrix: Solid

Analysis Batch: 173152

MB MB RL Unit Analyte Result Qualifier Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) $\overline{\mathsf{ND}}$ 5.0 08/20/21 20:43 mg/Kg

MB MB Qualifier %Recovery Dil Fac Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/20/21 20:43 89

Lab Sample ID: LCS 570-173152/9

Matrix: Solid

Analysis Batch: 173152

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec 2.14 77 - 128 TPH as Gasoline (C4-C13) 1.859 mg/Kg 87

LCS LCS

Surrogate %Recovery Qualifier Limits 107 50 - 150 4-Bromofluorobenzene (Surr)

Eurofins Calscience LLC

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: LCSD 570-173152/10

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173152

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.11	1.858		mg/Kg		88	77 - 128	0	16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 114

Lab Sample ID: MB 570-173304/35 **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 173304

	INIB	MB							
Analyte	Result	Qualifier	RL	Unit	ı	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/k	(g			08/21/21 05:50	20

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150		08/21/21 05:50	20

Lab Sample ID: LCS 570-173304/32 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173304

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	 2.12	1.742		mg/Kg		82	77 - 128	

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 92 50 - 150

Lab Sample ID: LCSD 570-173304/33 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173304

	эріке	LCSD	LCSD				%Rec.		KPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
TPH as Gasoline (C4-C13)	2.12	1.718		mg/Kg		81	77 - 128	1	16	

LCCD LCCD

Chiles

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 91

Lab Sample ID: MB 570-173340/5

Matrix: Solid							Prep Type: 10	otal/NA
Analysis Batch: 173340								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/21/21 12:23	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150				08/21/21 12:23	1

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0/ Baa

Client Sample ID: Method Blank

Job ID: 570-66942-1 Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-173340/6 **Matrix: Solid**

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Analysis Batch: 173340

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 08/21/21 12:50 20

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 82 50 - 150 08/21/21 12:50

Lab Sample ID: LCS 570-173340/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173340

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits

TPH as Gasoline (C4-C13) 2.13 2.042 mg/Kg 96 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173340/4 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173340

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) mg/Kg 2.13 1.919 77 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate 104 50 - 150

4-Bromofluorobenzene (Surr)

Lab Sample ID: MB 570-173393/6

Matrix: Solid

Analysis Batch: 173393 MB MB

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) $\overline{\mathsf{ND}}$ 5.0 08/21/21 16:38 mg/Kg

MB MB Qualifier %Recovery Limits Dil Fac Surrogate Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/21/21 16:38 86

Lab Sample ID: LCS 570-173393/3

Matrix: Solid

Analysis Batch: 173393

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec 2.10 77 - 128 TPH as Gasoline (C4-C13) 1.997 mg/Kg 95

LCS LCS

Surrogate %Recovery Qualifier Limits 112 50 - 150 4-Bromofluorobenzene (Surr)

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: LCSD 570-173393/4

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173393

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.12	1.956		mg/Kg		92	77 - 128	2	16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 119

Client Sample ID: Method Blank Lab Sample ID: MB 570-173418/33 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173418

	мв мв						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND ND	5.0	mg/Kg			08/21/21 23:55	20
	MB MB						

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 82 08/21/21 23:55

Lab Sample ID: LCS 570-173418/31

Matrix: Solid

Analysis Batch: 173418

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	2.13	1.659		mg/Kg	_	78	77 - 128	

LCS LCS

Surrogate **%Recovery Qualifier** Limits 4-Bromofluorobenzene (Surr) 98 50 - 150

Lab Sample ID: LCSD 570-173418/32 **Matrix: Solid**

Analysis Batch: 173418

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2 09	1 626		ma/Ka		78	77 - 128		16

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 97

Lab Sample ID: MB 570-173454/5

Matrix: Solid

Anai	ysis	Batch	1: 1734	154	

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/23/21 11:30	1
	MB	MB						

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 08/23/21 11:30 88

Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Method Blank

Lab Sample ID: MB 570-173454/6 **Matrix: Solid**

Prep Type: Total/NA

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 08/23/21 12:00

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 87 50 - 150 08/23/21 12:00

Lab Sample ID: LCS 570-173454/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Client: Cardno, Inc

Analysis Batch: 173454

Analysis Batch: 173454

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.14 1.919 mg/Kg 90 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 105

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173454/4 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173454

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.11 1.880 89 77 - 128 mg/Kg

LCSD LCSD

MB MB

Limits Surrogate **%Recovery Qualifier** 4-Bromofluorobenzene (Surr) 108 50 - 150

Lab Sample ID: MB 570-173459/21 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Solid

Analysis Batch: 173459

RL Unit Analyte Result Qualifier Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) $\overline{\mathsf{ND}}$ 5.0 08/23/21 17:56 mg/Kg

MB MB Qualifier %Recovery Dil Fac Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/23/21 17:56 76

Lab Sample ID: MB 570-173459/5 Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 173459

MB MB Result Qualifier RL Analyte Unit D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 08/23/21 11:28

MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 59 50 - 150 08/23/21 11:28 4-Bromofluorobenzene (Surr)

Eurofins Calscience LLC

Prep Type: Total/NA

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-173459/3 **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 173459

TPH as Gasoline (C4-C13)

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec

2.10

LCS LCS Surrogate %Recovery Qualifier

Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-173459/4 Client Sample ID: Lab Control Sample Dup

1.842

mg/Kg

88

77 - 128

Matrix: Solid

Analysis Batch: 173459

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.12 1.680 mg/Kg 79 77 - 128 9

LCSD LCSD

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Client Sample ID: Method Blank Lab Sample ID: MB 570-173725/17 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173725

MB MB Analyte Qualifier RL Unit Prepared Analyzed Dil Fac Result TPH as Gasoline (C4-C13) 0.25 $\overline{\mathsf{ND}}$ mg/Kg 08/23/21 18:51

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 84 50 - 150 08/23/21 18:51

Lab Sample ID: MB 570-173725/18 Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 173725

MB MB RL Unit Analyte Result Qualifier Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) $\overline{\mathsf{ND}}$ 5.0 08/23/21 19:16 mg/Kg

MB MB Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/23/21 19:16 82

Lab Sample ID: LCS 570-173725/15

Matrix: Solid

Analysis Batch: 173725

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec 2.12 77 - 128 TPH as Gasoline (C4-C13) 2.130 mg/Kg 100

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 91

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 570-173725/16 **Matrix: Solid**

Prep Type: Total/NA

Analysis Batch: 173725

RPD Spike LCSD LCSD %Rec. Result Qualifier Added Unit %Rec Limits RPD Limit Analyte TPH as Gasoline (C4-C13) 2.11 2.103 mg/Kg 100 77 - 128

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: MB 570-173959/5 Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173959

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 08/24/21 14:37

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 77 50 - 150 08/24/21 14:37

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 570-173959/3 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173959

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.10 1.946 77 - 128 mg/Kg

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 112 50 - 150

Lab Sample ID: LCSD 570-173959/4 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 173959

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Gasoline (C4-C13) 2.12 1.967 93 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Surrogate Limits

4-Bromofluorobenzene (Surr) 50 - 150 91

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-173212/1-A

Matrix: Solid

Analysis Batch: 173940

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup **Prep Batch: 173212**

Analyte Result Qualifier RL Unit **Prepared** Analyzed Dil Fac TPH as Diesel Range ND 5.0 08/20/21 16:19 08/24/21 12:36 mg/Kg TPH as Motor Oil Range 5.0 08/20/21 16:19 08/24/21 12:36 ND mg/Kg

MB MB

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 08/20/21 16:19 08/24/21 12:36 n-Octacosane (Surr) 50 - 150 113

1

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570- Matrix: Solid Analysis Batch: 173940	173212/26-A					Clien		•	e: Lab Control Sample be: Silica Gel Cleanup Prep Batch: 173212
•			Spike	LCS	LCS				%Rec.
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
TPH as Motor Oil (C17-C44)			400	408.8		mg/Kg		102	71 - 139
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
n-Octacosane (Surr)	111		50 - 150						
Lah Sample ID: LCS 570-	173212/2 ₋ A					Clien	t Sai	mnle ID	Lah Control Sample

Lab Sample ID: LCS 570-1 Matrix: Solid Analysis Batch: 173940	73212/2-A					Clier		•	oe: Silica G	trol Sample Sel Cleanup tch: 173212
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)			400	441.8		mg/Kg		110	76 - 126	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	117		50 - 150							

Lab Sample ID: LCSD 57 Matrix: Solid Analysis Batch: 173940	0-173212/27-/	A			(Client Sa			e: Silica	Sample Dup Gel Cleanup Satch: 173212		
•			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
TPH as Motor Oil (C17-C44)			400	408.2		mg/Kg		102	71 - 139	0	20	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
n-Octacosane (Surr)	110		50 - 150									

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 173940)-173212/3-A				(Client Sai	•		Control be: Silica Prep Ba	Gel Cle	anup
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)			400	453.3		mg/Kg		113	76 - 126	3	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	112		50 - 150								

Lab Sample ID: 570-6694 Matrix: Solid Analysis Batch: 174335	2-1 MS						P		ent Samp be: Silica Prep B	anup
7 maryoro Datom 11 1000	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	72		465	553.8	-	mg/Kg	<u></u>	104	37 - 175	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	114		50 - 150							

Job ID: 570-66942-1

71 - 174

Client Sample ID: S-5-C2

71 - 174

131

66

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Client Sample ID: S-5-C2

464

Lab Sample ID: 570-66942-1 MS **Matrix: Solid**

Analysis Batch: 174335

TPH as Motor Oil (C17-C44)

Prep Type: Silica Gel Cleanup **Prep Batch: 173212** Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits Unit %Rec

mg/Kg

mg/Kg

1141

MS MS

530 F1 F2

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 105 50 - 150

Client Sample ID: S-5-C2 Lab Sample ID: 570-66942-1 MSD **Matrix: Solid** Prep Type: Silica Gel Cleanup

Analyte

Analysis Batch: 174335

Prep Batch: 173212 Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 72 463 556.7 mg/Kg 105 37 - 175 1

MSD MSD

530 F1 F2

%Recovery Surrogate Qualifier Limits n-Octacosane (Surr) 110 50 - 150

Lab Sample ID: 570-66942-1 MSD

Matrix: Solid

TPH as Motor Oil (C17-C44)

Prep Type: Silica Gel Cleanup **Analysis Batch: 174335 Prep Batch: 173212** Spike MSD MSD %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits RPD Limit %Rec

464

MSD MSD

%Recovery Qualifier Limits Surrogate n-Octacosane (Surr) 117 50 - 150

Lab Sample ID: MB 570-173215/1-A

Matrix: Solid

Analysis Batch: 173940

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup **Prep Batch: 173215** MB MB

837.2 F1 F2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/20/21 16:23	08/24/21 13:41	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/20/21 16:23	08/24/21 13:41	1

MB MB

%Recovery Surrogate Qualifier Limits Analyzed n-Octacosane (Surr) 108 50 - 150 08/20/21 16:23 08/24/21 13:41

Lab Sample ID: LCS 570-173215/26-A

Matrix: Solid

Analysis Batch: 173940

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup Prep Batch: 173215 LCS LCS

Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 400 389.9 mg/Kg 97 71 - 139

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 106 50 - 150

Job ID: 570-66942-1

Client: Cardno, Inc

Lab Sample ID: LCS 570-173215/2-A

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Added

400

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 173215

%Rec.

Limits

%Rec 105 76 - 126

LCS LCS

%Recovery Qualifier Limits 109 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173215/27-A

Matrix: Solid

n-Octacosane (Surr)

Matrix: Solid

Analyte

Surrogate

Analysis Batch: 173940

Analysis Batch: 173940

TPH as Diesel (C10-C28)

Prep Type: Silica Gel Cleanup

MS MS

MS MS

LCS LCS

419.8

Result Qualifier

Unit

mg/Kg

Prep Batch: 173215

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) 400 385.0 mg/Kg 96 71 - 139 1

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 103 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173215/3-A

Matrix: Solid

Analysis Batch: 173940

Prep Type: Silica Gel Cleanup

Prep Batch: 173215

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 400 424.7 106 76 - 126 mg/Kg

LCSD LCSD

Limits Surrogate **%Recovery Qualifier** n-Octacosane (Surr) 109 50 - 150

Lab Sample ID: 570-66942-23 MS

Matrix: Solid

Analysis Batch: 173940

Client Sample ID: S-2.5-E8 Prep Type: Silica Gel Cleanup

Prep Batch: 173215

%Rec.

Spike Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec

TPH as Diesel (C10-C28) 430 427 806.3 89 37 - 175 mg/Kg

MS MS

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 104

Lab Sample ID: 570-66942-23 MS

Matrix: Solid

Analysis Batch: 173940

Client Sample ID: S-2.5-E8 Prep Type: Silica Gel Cleanup

Prep Batch: 173215

%Rec. Limits

Result Qualifier babb∆ Result Qualifier Analyte Unit D %Rec TPH as Motor Oil (C17-C44) 71 - 174 370 429 738.1 mg/Kg 87

Spike

MS MS

Sample Sample

Sample Sample

Surrogate %Recovery Qualifier Limits 50 - 150 n-Octacosane (Surr) 110

20

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Added

423

Lab Sample ID: 570-66942-23 MSD

Analysis Batch: 173940

TPH as Diesel (C10-C28)

Matrix: Solid

Client Sample ID: S-2.5-E8 Prep Type: Silica Gel Cleanup

37 - 175

Prep Batch: 173215

Job ID: 570-66942-1

%Rec. **RPD** Limits RPD Limit %Rec

MSD MSD

430

Sample Sample

Result Qualifier

%Recovery Qualifier Limits n-Octacosane (Surr) 99 50 - 150

Lab Sample ID: 570-66942-23 MSD Client Sample ID: S-2.5-E8 **Matrix: Solid**

MSD MSD

754.5

Result Qualifier

Unit

mg/Kg

D

78

Analyte

Surrogate

Analysis Batch: 173940

Prep Type: Silica Gel Cleanup **Prep Batch: 173215**

RPD Sample Sample Spike MSD MSD %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) 370 428 899.2 E mg/Kg 125 71 - 174 20

MSD MSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 108 50 - 150

Client Sample ID: Method Blank Lab Sample ID: MB 570-173220/1-A **Matrix: Solid**

Analysis Batch: 174335

Prep Type: Silica Gel Cleanup

Prep Batch: 173220

MB MB Analyte Qualifier RL Unit Prepared Analyzed Dil Fac Result TPH as Diesel Range $\overline{\mathsf{ND}}$ 5.0 mg/Kg 08/20/21 16:31 08/25/21 17:22 TPH as Motor Oil Range ND 5.0 mg/Kg 08/20/21 16:31 08/25/21 17:22

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 114 50 - 150 08/20/21 16:31 08/25/21 17:22

Lab Sample ID: LCS 570-173220/26-A

Matrix: Solid

Analysis Batch: 174335

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

Prep Batch: 173220

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits 400 376.1 71 - 139 TPH as Motor Oil (C17-C44) mg/Kg

LCS LCS

%Recovery Surrogate Qualifier Limits n-Octacosane (Surr) 103 50 - 150

Lab Sample ID: LCS 570-173220/2-A

Matrix: Solid

Analysis Batch: 174335

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

Prep Batch: 173220

%Rec.

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 410.8 mg/Kg 103 76 - 126

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 110 50 - 150

Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client: Cardno, Inc

n-Octacosane (Surr)

Surrogate

Surrogate

n-Octacosane (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

102

%Recovery Qualifier

%Recovery Qualifier

117

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 174335	-173220/27-	A			C	Client Sai			e: Silica	Control Sample Dup e: Silica Gel Cleanup Prep Batch: 173220		
			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
TPH as Motor Oil (C17-C44)			400	398.4		mg/Kg		100	71 - 139	6	20	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									

Lab Sample ID: LCSD 570-173220/3-A Matrix: Solid			(Client Sai			Control ce: Silica		
Analysis Batch: 174335							Prep Ba	atch: 17	73220
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	400	452.7		mg/Kg		113	76 - 126	10	20
LCSD LCSD									

50 - 150

Limits

Limits

50 - 150

Lab Sample ID: 570-66942- Matrix: Solid Analysis Batch: 174335	49 MS						P		oe: Silica	le ID: S-5-D3 Gel Cleanup atch: 173220
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	22000	F2	493	19670	4	mg/Kg	☼	-568	37 - 175	
	MS	MS								

n-Octacosane (Surr)	87	50 - 150	
Lab Sample ID: 570-66942-49 MS			Client Sample ID: S-5-D3
Matrix: Solid			Prep Type: Silica Gel Cleanup

Analysis Batch: 174335 Prep Batch: 173220

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	8400		498	9102	4	mg/Kg	-	142	71 - 174	
	MS	мс								

Surrogate	%Recovery Qualifier	Limits
n-Octacosane (Surr)	97	50 - 150

Lab Sample ID: 570-66942	-49 WSD							CII	ent Sampi	le iD: 2	-5-D3
Matrix: Solid							P	rep Ty	pe: Silica	Gel Cle	anup
Analysis Batch: 174335									Prep Ba	atch: 17	73220
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	22000	F2	490	45370	4 F2	mg/Kg	₽	4676	37 - 175	79	20
Analyte	Result	Qualifier	Added	Result	Qualifier		_ =		%Rec. Limits	RPD	RPD Limit

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	147		50 - 150

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Prep Batch: 173220

Prep Batch: 173225

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-66942-49 MSD Client Sample ID: S-5-D3 Prep Type: Silica Gel Cleanup

Matrix: Solid

Analyte

Analyte

Analysis Batch: 174335

TPH as Motor Oil (C17-C44)

Sample Sample Result Qualifier 8400

MSD MSD

Spike Added 497

MSD MSD Result Qualifier 8749 4

Unit D mg/Kg

%Rec 72

Limits RPD 71 - 174

%Rec.

Limit 4 20

RPD

Surrogate n-Octacosane (Surr)

%Recovery Qualifier 110

Limits 50 - 150

Client Sample ID: Method Blank Lab Sample ID: MB 570-173225/1-A **Matrix: Solid** Prep Type: Silica Gel Cleanup

Analysis Batch: 175006

Lab Sample ID: LCS 570-173225/26-A

MB MB

Result Qualifier ND

RL 5.0 5.0 Unit Prepared mg/Kg mg/Kg

Analyzed 08/20/21 16:52 08/27/21 20:49 08/20/21 16:52 08/27/21 20:49

Dil Fac

MB MB

ND

Surrogate n-Octacosane (Surr)

Matrix: Solid

n-Octacosane (Surr)

Matrix: Solid

TPH as Diesel Range

TPH as Motor Oil Range

%Recovery 116

Qualifier Limits 50 - 150

Prepared Analyzed Dil Fac 08/20/21 16:52 08/27/21 20:49

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

Prep Batch: 173225

%Rec.

Spike Result Qualifier Added Limits Unit %Rec Analyte TPH as Motor Oil (C17-C44) 400 445.3 mg/Kg 111 71 - 139

Limits

50 - 150

Spike

Added

400

LCS LCS

Surrogate

Analysis Batch: 175006

%Recovery Qualifier 120

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup Prep Batch: 173225

%Rec.

%Rec Limits 126 76 - 126

Client Sample ID: Lab Control Sample Dup

LCS LCS

Surrogate

Lab Sample ID: LCS 570-173225/2-A

n-Octacosane (Surr)

Analysis Batch: 175006

%Recovery Qualifier

Limits 50 - 150

Lab Sample ID: LCSD 570-173225/27-A

Matrix: Solid

Analyte

TPH as Diesel (C10-C28)

Analysis Batch: 175006

Spike Added 400

LCSD LCSD Result Qualifier 423.7

LCS LCS

LCS LCS

505.3

Result Qualifier

Unit mg/Kg

Unit

mg/Kg

%Rec 106

%Rec Limits RPD 71 - 139

Prep Batch: 173225

Prep Type: Silica Gel Cleanup

Limit

RPD

LCSD LCSD

Surrogate n-Octacosane (Surr)

TPH as Motor Oil (C17-C44)

%Recovery Qualifier 114

Limits 50 - 150

Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Client: Cardno, Inc

n-Octacosane (Surr)

Surrogate

n-Octacosane (Surr)

n-Octacosane (Surr)

Lab Sample ID: 570-66942-61 MSD

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 175006		(Client Sai	•		Control be: Silica Prep Ba	Gel Cle	anup			
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)			400	453.6		mg/Kg		113	76 - 126	11	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

Lab Sample ID: 570-66942-61 MS Client Sample ID: S-10-D1 **Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 175006** Prep Batch: 173225 %Rec. Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 470 1140 1353 mg/Kg 77 37 - 175 MS MS Surrogate %Recovery Qualifier Limits 50 - 150 n-Octacosane (Surr) 112

50 - 150

118

%Recovery

114

116

Qualifier

Lab Sample ID: 570-66942-61 MS Client Sample ID: S-10-D1 Prep Type: Silica Gel Cleanup **Matrix: Solid Analysis Batch: 175006 Prep Batch: 173225** Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 450 1150 1541 mg/Kg 95 71 - 174 MS MS

Limits

50 - 150

50 - 150

Lab Sample ID: 570-66942-61 MSD Client Sample ID: S-10-D1 **Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 175006** Prep Batch: 173225 Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Unit Limits Limit Analyte D %Rec RPD TPH as Diesel (C10-C28) 470 1150 1479 mg/Kg 88 37 - 175 MSD MSD %Recovery Qualifier Surrogate Limits

Matrix: Solid Prep Type: Silica Gel Cleanup **Analysis Batch: 175006** Prep Batch: 173225 Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Limit Added Result Qualifier Unit D Limits RPD Analyte %Rec TPH as Motor Oil (C17-C44) 71 - 174 450 1150 1527 mg/Kg 94 20

MSD MSD Surrogate %Recovery Qualifier Limits 116 50 - 150 n-Octacosane (Surr)

Eurofins Calscience LLC

Client Sample ID: S-10-D1

Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-173226/1-A Client Sample ID: Method Blank

Matrix: Solid

Client: Cardno, Inc

Analysis Batch: 175001

Prep Type: Silica Gel Cleanup

Prep Batch: 173226

MB MB Result Qualifier RL Unit Dil Fac Analyte Prepared Analyzed TPH as Diesel Range ND 5.0 mg/Kg 08/20/21 16:56 08/28/21 12:17 TPH as Motor Oil Range ND 5.0 mg/Kg 08/20/21 16:56 08/28/21 12:17

MB MB

Surrogate %Recovery Qualifier I imite Prepared Dil Fac Analyzed n-Octacosane (Surr) 97 50 - 150

LCS LCS

LCSD LCSD

418.9

471.5

Result Qualifier

08/20/21 16:56 08/28/21 12:17

Lab Sample ID: LCS 570-173226/26-A

Lab Sample ID: LCS 570-173226/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 175001

Analysis Batch: 175001

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

Prep Batch: 173226

%Rec.

Added Limits Result Qualifier D %Rec Analyte Unit TPH as Motor Oil (C17-C44) 400 443.7 mg/Kg 111 71 - 139

Spike

LCS LCS

%Recovery Surrogate Qualifier Limits 50 - 150 n-Octacosane (Surr) 91

Client Sample ID: Lab Control Sample

Unit

mg/Kg

mg/Kg

Prep Type: Silica Gel Cleanup

Prep Batch: 173226

Spike LCS LCS %Rec. Added Result Qualifier Limits Unit %Rec Analyte TPH as Diesel (C10-C28) 400 452.9 mg/Kg 113 76 - 126

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 98 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173226/27-A

Spike

Added

Spike

Added

400

400

Matrix: Solid

Analysis Batch: 175001

TPH as Motor Oil (C17-C44)

Prep Type: Silica Gel Cleanup Prep Batch: 173226

> %Rec. **RPD** Limits %Rec **RPD** Limit 105 71 - 139

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 92 50 - 150

Lab Sample ID: LCSD 570-173226/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Analysis Batch: 175001

TPH as Diesel (C10-C28)

Analyte

Prep Type: Silica Gel Cleanup Prep Batch: 173226 LCSD LCSD RPD %Rec Result Qualifier Unit %Rec Limits **RPD** Limit

118

76 - 126

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 98 50 - 150

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-66942-82 MS **Matrix: Solid**

Analysis Batch: 175001

Client Sample ID: S-2.5-G6 Prep Type: Silica Gel Cleanup Prep Batch: 173226 Sample Sample Spike MS MS %Rec. Result Qualifier Result Qualifier Added Unit Limits D %Rec

Analyte TPH as Diesel (C10-C28) 1900 F2 F1 514 1571 F1 mg/Kg -60 37 - 175

MS MS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 99 50 - 150

Lab Sample ID: 570-66942-82 MS

Matrix: Solid

Analysis Batch: 175001

Prep Batch: 173226 %Rec. Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 1300 F1 516 1859 E mg/Kg 100 71 - 174

MS MS %Recovery Surrogate Qualifier Limits n-Octacosane (Surr) 99 50 - 150

Lab Sample ID: 570-66942-82 MSD

Matrix: Solid

Analysis Batch: 175001

Prep Batch: 173226 Spike MSD MSD %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits RPD Limit %Rec TPH as Diesel (C10-C28) 1900 F2 F1 512 1944 F2 F1 mg/Kg 12 37 - 175

MSD MSD Qualifier Limits Surrogate %Recovery n-Octacosane (Surr) 98 50 - 150

Analysis Batch: 175001

Lab Sample ID: 570-66942-82 MSD **Matrix: Solid**

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec RPD Limit TPH as Motor Oil (C17-C44) 1300 F1 518 1518 E F1 33 71 - 174 20 mg/Kg

MSD MSD %Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 92

Lab Sample ID: MB 570-173228/1-A

Matrix: Solid

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup **Analysis Batch: 175006** Prep Batch: 173228 MB MB

Result Qualifier RL Unit Prepared Dil Fac Analyte Analyzed TPH as Diesel Range ND 5.0 mg/Kg 08/20/21 16:59 08/27/21 21:10 TPH as Motor Oil Range ND 5.0 mg/Kg 08/20/21 16:59 08/27/21 21:10

MB MB Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 117 50 - 150

Prepared Analyzed Dil Fac 08/20/21 16:59 08/27/21 21:10

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Client Sample ID: S-2.5-G6

Client Sample ID: S-2.5-G6

Client Sample ID: S-2.5-G6

Prep Batch: 173226

Prep Type: Silica Gel Cleanup

Prep Type: Silica Gel Cleanup

Prep Type: Silica Gel Cleanup

TPH as Motor Oil (C17-C44)

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-173228/26-A Matrix: Solid				Clier		•	Lab Control Sample e: Silica Gel Cleanup
Analysis Batch: 175006						-	Prep Batch: 173228
	Spike	LCS	LCS				%Rec.
Analyte	habb∆	Result	Qualifier	Unit	D	%Rec	l imits

456.9

mg/Kg

114

71 - 139

LCS LCS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 122 50 - 150

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 570-173228/2-A **Prep Type: Silica Gel Cleanup Matrix: Solid**

Analysis Batch: 175006 Prep Batch: 173228 LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits

400

TPH as Diesel (C10-C28) 400 427.4 mg/Kg 107 76 - 126 LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 n-Octacosane (Surr) 120

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173228/27-A **Matrix: Solid Prep Type: Silica Gel Cleanup**

Analysis Batch: 175006 Prep Batch: 173228

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) 400 421.6 105 71 - 139 mg/Kg

LCSD LCSD Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 116 50 - 150

Lab Sample ID: LCSD 570-173228/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Silica Gel Cleanup**

Analysis Batch: 175006 Prep Batch: 173228 Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Diesel (C10-C28) 400 454.5 114 76 - 126 mg/Kg

LCSD LCSD Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150 118

%Recovery Qualifier

Lab Sample ID: 570-66942-102 MS Client Sample ID: S-2.5-F9 DUP **Matrix: Solid** Prep Type: Silica Gel Cleanup

Analysis Batch: 175006 Prep Batch: 173228 Sample Sample Spike MS MS %Rec. Result Qualifier habb∆ Result Qualifier Limits Analyte Unit D %Rec

TPH as Diesel (C10-C28) 120 444 601.2 mg/Kg MS MS

Limits

n-Octacosane (Surr)

Surrogate

Client: Cardno, Inc Job ID: 570-66942-1 Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Added

Spike

Added

446

437

Lab Sample ID: 570-66942-102 MS

Matrix: Solid

Analyte

Analysis Batch: 175006

TPH as Motor Oil (C17-C44)

Client Sample ID: S-2.5-F9 DUP Prep Type: Silica Gel Cleanup

Prep Batch: 173228

%Rec. Limits

%Rec 104 71 - 174

MS MS

76

Sample Sample

Result Qualifier

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 102 50 - 150

Client Sample ID: S-2.5-F9 DUP Lab Sample ID: 570-66942-102 MSD

MS MS

MSD MSD

592.0

Result Qualifier

532.2

Result Qualifier

Unit

mg/Kg

Unit

mg/Kg

Matrix: Solid

Analyte

Analysis Batch: 175006

TPH as Diesel (C10-C28)

Prep Type: Silica Gel Cleanup

Prep Batch: 173228

RPD %Rec.

%Rec Limits RPD Limit

MSD MSD

120

Sample Sample

Result Qualifier

Surrogate %Recovery Qualifier Limits

n-Octacosane (Surr)

Matrix: Solid

Client Sample ID: S-2.5-F9 DUP

Prep Type: Silica Gel Cleanup

Prep Batch: 173228

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) 76 438 606.9 mg/Kg 121 71 - 174

MSD MSD

Surrogate Qualifier Limits %Recovery

n-Octacosane (Surr) 131 50 - 150

Lab Sample ID: MB 570-173229/1-A

Lab Sample ID: 570-66942-102 MSD

Matrix: Solid

Analysis Batch: 175125

Analysis Batch: 175006

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup

Prep Batch: 173229

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac TPH as Diesel Range 5.0 mg/Kg 08/20/21 17:02 08/28/21 13:34 ND TPH as Motor Oil Range ND 5.0 mg/Kg 08/20/21 17:02 08/28/21 13:34

MB MB

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed n-Octacosane (Surr) 120 50 - 150 08/20/21 17:02 08/28/21 13:34

Lab Sample ID: LCS 570-173229/26-A

Matrix: Solid

Analysis Batch: 175125

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

Prep Batch: 173229

%Rec

LCS LCS Spike Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 400 431.4 mg/Kg 108 71 - 139

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 119 50 - 150

Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-173229/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

LCS LCS

Analyte

Client: Cardno, Inc

Analysis Batch: 175125

Prep Type: Silica Gel Cleanup **Prep Batch: 173229**

> %Rec. Limits

Added Result Qualifier Unit %Rec TPH as Diesel (C10-C28) 400 494.4 mg/Kg 124 76 - 126

Spike

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173229/27-A

Matrix: Solid

Analysis Batch: 175125

Prep Type: Silica Gel Cleanup

Prep Batch: 173229

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) 400 439.8 mg/Kg 110 71 - 139 2

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 120 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173229/3-A

Matrix: Solid

Analysis Batch: 175125

Prep Type: Silica Gel Cleanup

Prep Batch: 173229

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 400 443.8 111 76 - 126 mg/Kg

LCSD LCSD

Limits Surrogate **%Recovery Qualifier** n-Octacosane (Surr) 113 50 - 150

Lab Sample ID: 570-66942-122 MS

Matrix: Solid

Analysis Batch: 175125

Client Sample ID: S-12.5-J7

Prep Type: Silica Gel Cleanup

Prep Batch: 173229

%Rec.

Sample Sample Spike MS MS Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec

TPH as Diesel (C10-C28) 790 F2 F1 783 2360 F1 201 37 - 175 mg/Kg

MS MS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150 102

Lab Sample ID: 570-66942-122 MS

Matrix: Solid

Analysis Batch: 175125

Client Sample ID: S-12.5-J7 Prep Type: Silica Gel Cleanup

Prep Batch: 173229

Sample Sample Spike MS MS %Rec. **Result Qualifier** babb∆ Result Qualifier Limits Analyte Unit D %Rec TPH as Motor Oil (C17-C44) 530 F2 F1 71 - 174 775 1382 mg/Kg 111

MS MS

Surrogate %Recovery Qualifier Limits 50 - 150 n-Octacosane (Surr) 114

QC Sample Results

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

n-Octacosane (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

119

Lab Sample ID: 570-66943 Matrix: Solid Analysis Batch: 175125	2-122 MSD						P		oe: Silica	ID: S-12.5-J Gel Cleanu Batch: 17322	
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	790	F2 F1	786	1317	F2	mg/Kg	— <u>—</u>	67	37 - 175	57	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

Lab Sample ID: 570-66942 Matrix: Solid Analysis Batch: 175125	2-122 MSD						P		Sample I be: Silica Prep Ba	Gel Cle	anup
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	530	F2 F1	776	2128	E F1 F2	mg/Kg	-	206	71 - 174	42	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	111		50 - 150								

50 - 150

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC VOA

Prep Batch: 171695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-2	S-7.5-C2	Total/NA	Solid	5035	
570-66942-4	S-12.5-C2	Total/NA	Solid	5035	
570-66942-5	S-5-C4	Total/NA	Solid	5035	
570-66942-6	S-7.5-C4	Total/NA	Solid	5035	
570-66942-7	S-10-C4	Total/NA	Solid	5035	
570-66942-11	S-7.5-C6	Total/NA	Solid	5035	
570-66942-16	S-10-C8	Total/NA	Solid	5035	
570-66942-17	S-12.5-C8	Total/NA	Solid	5035	
570-66942-20	S-7.5-D9	Total/NA	Solid	5035	
570-66942-21	S-10-D9	Total/NA	Solid	5035	
570-66942-22	S-12.5-D9	Total/NA	Solid	5035	
570-66942-24	S-5-E8	Total/NA	Solid	5035	
570-66942-25	S-7.5-E8	Total/NA	Solid	5035	
570-66942-26	S-10-E8	Total/NA	Solid	5035	
570-66942-27	S-12.5-E8	Total/NA	Solid	5035	
570-66942-28	S-2.5-D7	Total/NA	Solid	5035	
570-66942-29	S-5-D7	Total/NA	Solid	5035	
570-66942-30	S-7.5-D7	Total/NA	Solid	5035	
570-66942-31	S-10-D7	Total/NA	Solid	5035	
570-66942-33	S-2.5-E6	Total/NA	Solid	5035	
570-66942-34	S-5-E6	Total/NA	Solid	5035	
570-66942-35	S-7.5-E6	Total/NA	Solid	5035	
570-66942-36	S-10-E6	Total/NA	Solid	5035	
570-66942-37	S-12.5-E6	Total/NA	Solid	5035	
570-66942-38	S-2.5-D5	Total/NA	Solid	5035	
570-66942-39	S-5-D5	Total/NA	Solid	5035	
570-66942-40	S-7.5-D5	Total/NA	Solid	5035	
570-66942-41	S-10-D5	Total/NA	Solid	5035	
570-66942-43	S-2.5-E4	Total/NA	Solid	5035	
570-66942-44	S-5-E4	Total/NA	Solid	5035	
570-66942-45	S-7.5-E4	Total/NA	Solid	5035	
570-66942-46	S-10-E4	Total/NA	Solid	5035	
570-66942-48	S-2.5-D3	Total/NA	Solid	5035	
570-66942-49	S-5-D3	Total/NA	Solid	5035	
570-66942-50	S-7.5-D3	Total/NA	Solid	5035	
570-66942-51	S-10-D3	Total/NA	Solid	5035	
570-66942-53	S-2.5-E2	Total/NA	Solid	5035	
570-66942-54	S-5-E2	Total/NA	Solid	5035	
570-66942-55	S-7.5-E2	Total/NA	Solid	5035	
570-66942-56	S-10-E2	Total/NA	Solid	5035	
570-66942-58	S-2.5-D1	Total/NA	Solid	5035	
570-66942-59	S-5-D1	Total/NA	Solid	5035	
570-66942-61	S-10-D1	Total/NA	Solid	5035	
570-66942-63	S-2.5-G2	Total/NA	Solid	5035	
570-66942-64	S-5-G2	Total/NA	Solid	5035	
570-66942-68	S-2.5-F3	Total/NA	Solid	5035	
570-66942-69	S-5-F3	Total/NA	Solid	5035	
570-66942-72	S-2.5-G4	Total/NA	Solid	5035	
570-66942-72	S-5-G4	Total/NA	Solid	5035	
570-66942-74	S-7.5-G4	Total/NA	Solid	5035	
570-66942-75	S-10-G4	Total/NA	Solid	5035	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC VOA (Continued)

Prep Batch: 171695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
570-66942-77	S-2.5-F5	Total/NA	Solid	5035	
570-66942-78	S-5-F5	Total/NA	Solid	5035	
570-66942-79	S-7.5-F5	Total/NA	Solid	5035	
570-66942-80	S-10-F5	Total/NA	Solid	5035	
570-66942-82	S-2.5-G6	Total/NA	Solid	5035	
570-66942-83	S-5-G6	Total/NA	Solid	5035	
570-66942-84	S-7.5-G6	Total/NA	Solid	5035	
570-66942-85	S-10-G6	Total/NA	Solid	5035	
570-66942-86	S-12.5-G6	Total/NA	Solid	5035	
570-66942-87	S-2.5-F7	Total/NA	Solid	5035	
570-66942-88	S-5-F7	Total/NA	Solid	5035	
570-66942-89	S-7.5-F7	Total/NA	Solid	5035	
570-66942-90	S-10-F7	Total/NA	Solid	5035	
570-66942-92	S-2.5-G8	Total/NA	Solid	5035	
570-66942-93	S-5-G8	Total/NA	Solid	5035	
570-66942-94	S-7.5-G8	Total/NA	Solid	5035	
570-66942-95	S-10-G8	Total/NA	Solid	5035	
570-66942-96	S-12.5-G8	Total/NA	Solid	5035	
570-66942-97	S-2.5-F9	Total/NA	Solid	5035	
570-66942-98	S-5-F9	Total/NA	Solid	5035	
570-66942-99	S-7.5-F9	Total/NA	Solid	5035	
570-66942-100	S-10-F9	Total/NA	Solid	5035	
570-66942-102	S-2.5-F9 DUP	Total/NA	Solid	5035	
570-66942-102 570-66942-103	S-2.5-F9 DUF S-2.5-I8	Total/NA	Solid	5035	
570-66942-103	S-5-18	Total/NA	Solid	5035	
570-66942-105	S-7.5-18	Total/NA	Solid	5035 5035	
570-66942-106	S-10-I8	Total/NA	Solid		
570-66942-107	S-12.5-I8	Total/NA	Solid	5035	
570-66942-108	S-2.5-H7	Total/NA	Solid	5035	
570-66942-109	S-5-H7	Total/NA	Solid	5035	
570-66942-110	S-7.5-H7	Total/NA	Solid	5035	
570-66942-111	S-10-H7	Total/NA	Solid	5035	
570-66942-112	S-12.5-H7	Total/NA	Solid	5035	
570-66942-113	S-2.5-I6	Total/NA	Solid	5035	
570-66942-114	S-5-I6	Total/NA	Solid	5035	
570-66942-115	S-7.5-I6	Total/NA	Solid	5035	
570-66942-116	S-10-l6	Total/NA	Solid	5035	
570-66942-117	S-12.5-I6	Total/NA	Solid	5035	
570-66942-118	S-2.5-J7	Total/NA	Solid	5035	
570-66942-119	S-5-J7	Total/NA	Solid	5035	
570-66942-120	S-7.5-J7	Total/NA	Solid	5035	
570-66942-121	S-10-J7	Total/NA	Solid	5035	
570-66942-122	S-12.5-J7	Total/NA	Solid	5035	
570-66942-124	S-2.5-J5	Total/NA	Solid	5035	
570-66942-125	S-5-J5	Total/NA	Solid	5035	
570-66942-126	S-7.5-J5	Total/NA	Solid	5035	
570-66942-127	S-10-J5	Total/NA	Solid	5035	
570-66942-128	S-12.5-J5	Total/NA	Solid	5035	
570-66942-129	S-2.5-H5	Total/NA	Solid	5035	
570-66942-130	S-5-H5	Total/NA	Solid	5035	
570-66942-131	S-7.5-H5	Total/NA	Solid	5035	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC VOA (Continued)

Prep Batch: 171695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-132	S-10-H5	Total/NA	Solid	5035	
570-66942-133	S-12.5-H5	Total/NA	Solid	5035	
570-66942-134	S-14.5-H5	Total/NA	Solid	5035	
570-66942-135	S-5-D5 DUP	Total/NA	Solid	5035	
570-66942-136	S-10-E4 DUP	Total/NA	Solid	5035	
570-66942-137	S-10-D1 DUP	Total/NA	Solid	5035	
570-66942-138	S-10-F9 DUP	Total/NA	Solid	5035	
570-66942-139	S-5-J5 DUP	Total/NA	Solid	5035	
570-66942-140	S-5-H5 DUP	Total/NA	Solid	5035	
570-66942-141	S-7.5-H7 DUP	Total/NA	Solid	5035	

Prep Batch: 171696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-1	S-5-C2	Total/NA	Solid	5035	
570-66942-3	S-10-C2	Total/NA	Solid	5035	
570-66942-8	S-12.5-C4	Total/NA	Solid	5035	
570-66942-9	S-2.5-C6	Total/NA	Solid	5035	
570-66942-10	S-5-C6	Total/NA	Solid	5035	
570-66942-12	S-10-C6	Total/NA	Solid	5035	
570-66942-13	S-2.5-C8	Total/NA	Solid	5035	
570-66942-14	S-5-C8	Total/NA	Solid	5035	
570-66942-15	S-7.5-C8	Total/NA	Solid	5035	
570-66942-18	S-2.5-D9	Total/NA	Solid	5035	
570-66942-19	S-5-D9	Total/NA	Solid	5035	
570-66942-23	S-2.5-E8	Total/NA	Solid	5035	
570-66942-32	S-12.5-D7	Total/NA	Solid	5035	
570-66942-42	S-12.5-D5	Total/NA	Solid	5035	
570-66942-47	S-12.5-E4	Total/NA	Solid	5035	
570-66942-52	S-12.5-D3	Total/NA	Solid	5035	
570-66942-57	S-12.5-E2	Total/NA	Solid	5035	
570-66942-60	S-7.5-D1	Total/NA	Solid	5035	
570-66942-62	S-12.5-D1	Total/NA	Solid	5035	
570-66942-66	S-10-G2	Total/NA	Solid	5035	
570-66942-67	S-12.5-G2	Total/NA	Solid	5035	
570-66942-70	S-10-F3	Total/NA	Solid	5035	
570-66942-71	S-12.5-F3	Total/NA	Solid	5035	
570-66942-76	S-12.5-G4	Total/NA	Solid	5035	
570-66942-81	S-12.5-F5	Total/NA	Solid	5035	
570-66942-91	S-12.5-F7	Total/NA	Solid	5035	
570-66942-101	S-12.5-F9	Total/NA	Solid	5035	
570-66942-123	S-14.5-I6	Total/NA	Solid	5035	

Analysis Batch: 171922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-1	S-5-C2	Total/NA	Solid	NWTPH-Gx	171696
570-66942-3	S-10-C2	Total/NA	Solid	NWTPH-Gx	171696
570-66942-8	S-12.5-C4	Total/NA	Solid	NWTPH-Gx	171696
570-66942-9	S-2.5-C6	Total/NA	Solid	NWTPH-Gx	171696
570-66942-12	S-10-C6	Total/NA	Solid	NWTPH-Gx	171696
570-66942-13	S-2.5-C8	Total/NA	Solid	NWTPH-Gx	171696
570-66942-14	S-5-C8	Total/NA	Solid	NWTPH-Gx	171696

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC VOA (Continued)

Analysis Batch: 171922 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-15	S-7.5-C8	Total/NA	Solid	NWTPH-Gx	171696
MB 570-171922/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-171922/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-171922/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 172337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-10	S-5-C6	Total/NA	Solid	NWTPH-Gx	171696
570-66942-11	S-7.5-C6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-18	S-2.5-D9	Total/NA	Solid	NWTPH-Gx	171696
570-66942-19	S-5-D9	Total/NA	Solid	NWTPH-Gx	171696
570-66942-22	S-12.5-D9	Total/NA	Solid	NWTPH-Gx	171695
570-66942-23	S-2.5-E8	Total/NA	Solid	NWTPH-Gx	171696
570-66942-28	S-2.5-D7	Total/NA	Solid	NWTPH-Gx	171695
MB 570-172337/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-172337/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-172337/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-172337/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 172559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-5	S-5-C4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-16	S-10-C8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-17	S-12.5-C8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-20	S-7.5-D9	Total/NA	Solid	NWTPH-Gx	171695
570-66942-21	S-10-D9	Total/NA	Solid	NWTPH-Gx	171695
570-66942-24	S-5-E8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-25	S-7.5-E8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-26	S-10-E8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-29	S-5-D7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-30	S-7.5-D7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-31	S-10-D7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-32	S-12.5-D7	Total/NA	Solid	NWTPH-Gx	171696
570-66942-42	S-12.5-D5	Total/NA	Solid	NWTPH-Gx	171696
MB 570-172559/37	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-172559/57	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-172559/35	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-172559/36	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 172815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-4	S-12.5-C2	Total/NA	Solid	NWTPH-Gx	171695
570-66942-33	S-2.5-E6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-34	S-5-E6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-36	S-10-E6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-38	S-2.5-D5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-39	S-5-D5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-41	S-10-D5	Total/NA	Solid	NWTPH-Gx	171695
MB 570-172815/7	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-172815/4	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-172815/5	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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Project/Site: ExxonMobil ADC / 0314476040

GC VOA

Analysis Batch: 173135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-2	S-7.5-C2	Total/NA	Solid	NWTPH-Gx	171695
570-66942-6	S-7.5-C4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-40	S-7.5-D5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-43	S-2.5-E4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-44	S-5-E4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-48	S-2.5-D3	Total/NA	Solid	NWTPH-Gx	171695
570-66942-50	S-7.5-D3	Total/NA	Solid	NWTPH-Gx	171695
570-66942-51	S-10-D3	Total/NA	Solid	NWTPH-Gx	171695
570-66942-53	S-2.5-E2	Total/NA	Solid	NWTPH-Gx	171695
570-66942-54	S-5-E2	Total/NA	Solid	NWTPH-Gx	171695
570-66942-55	S-7.5-E2	Total/NA	Solid	NWTPH-Gx	171695
570-66942-56	S-10-E2	Total/NA	Solid	NWTPH-Gx	171695
570-66942-58	S-2.5-D1	Total/NA	Solid	NWTPH-Gx	171695
570-66942-59	S-5-D1	Total/NA	Solid	NWTPH-Gx	171695
MB 570-173135/12	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173135/9	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173135/10	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 173152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-35	S-7.5-E6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-72	S-2.5-G4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-73	S-5-G4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-75	S-10-G4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-76	S-12.5-G4	Total/NA	Solid	NWTPH-Gx	171696
570-66942-77	S-2.5-F5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-78	S-5-F5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-79	S-7.5-F5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-80	S-10-F5	Total/NA	Solid	NWTPH-Gx	171695
MB 570-173152/11	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-173152/12	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173152/9	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173152/10	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 173304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-61	S-10-D1	Total/NA	Solid	NWTPH-Gx	171695
570-66942-63	S-2.5-G2	Total/NA	Solid	NWTPH-Gx	171695
570-66942-64	S-5-G2	Total/NA	Solid	NWTPH-Gx	171695
570-66942-68	S-2.5-F3	Total/NA	Solid	NWTPH-Gx	171695
570-66942-69	S-5-F3	Total/NA	Solid	NWTPH-Gx	171695
MB 570-173304/35	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173304/32	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173304/33	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 173340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-45	S-7.5-E4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-46	S-10-E4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-49	S-5-D3	Total/NA	Solid	NWTPH-Gx	171695
570-66942-52	S-12.5-D3	Total/NA	Solid	NWTPH-Gx	171696

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GC VOA (Continued)

Analysis Batch: 173340 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-60	S-7.5-D1	Total/NA	Solid	NWTPH-Gx	171696
570-66942-62	S-12.5-D1	Total/NA	Solid	NWTPH-Gx	171696
570-66942-66	S-10-G2	Total/NA	Solid	NWTPH-Gx	171696
570-66942-67	S-12.5-G2	Total/NA	Solid	NWTPH-Gx	171696
570-66942-70	S-10-F3	Total/NA	Solid	NWTPH-Gx	171696
570-66942-74	S-7.5-G4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-135	S-5-D5 DUP	Total/NA	Solid	NWTPH-Gx	171695
570-66942-136	S-10-E4 DUP	Total/NA	Solid	NWTPH-Gx	171695
570-66942-137	S-10-D1 DUP	Total/NA	Solid	NWTPH-Gx	171695
570-66942-138	S-10-F9 DUP	Total/NA	Solid	NWTPH-Gx	171695
570-66942-139	S-5-J5 DUP	Total/NA	Solid	NWTPH-Gx	171695
MB 570-173340/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-173340/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173340/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173340/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 173393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-82	S-2.5-G6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-83	S-5-G6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-84	S-7.5-G6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-85	S-10-G6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-86	S-12.5-G6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-87	S-2.5-F7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-88	S-5-F7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-89	S-7.5-F7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-90	S-10-F7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-92	S-2.5-G8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-93	S-5-G8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-95	S-10-G8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-96	S-12.5-G8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-98	S-5-F9	Total/NA	Solid	NWTPH-Gx	171695
570-66942-99	S-7.5-F9	Total/NA	Solid	NWTPH-Gx	171695
570-66942-100	S-10-F9	Total/NA	Solid	NWTPH-Gx	171695
MB 570-173393/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173393/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173393/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 173418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-103	S-2.5-I8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-105	S-7.5-I8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-106	S-10-l8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-107	S-12.5-l8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-108	S-2.5-H7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-109	S-5-H7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-110	S-7.5-H7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-111	S-10-H7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-113	S-2.5-I6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-114	S-5-I6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-115	S-7.5-I6	Total/NA	Solid	NWTPH-Gx	171695

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC VOA (Continued)

Analysis Batch: 173418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-116	S-10-I6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-117	S-12.5-I6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-118	S-2.5-J7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-119	S-5-J7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-120	S-7.5-J7	Total/NA	Solid	NWTPH-Gx	171695
MB 570-173418/33	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173418/31	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173418/32	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 173454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-47	S-12.5-E4	Total/NA	Solid	NWTPH-Gx	171696
570-66942-140	S-5-H5 DUP	Total/NA	Solid	NWTPH-Gx	171695
570-66942-141	S-7.5-H7 DUP	Total/NA	Solid	NWTPH-Gx	171695
MB 570-173454/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-173454/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173454/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173454/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 173459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-7	S-10-C4	Total/NA	Solid	NWTPH-Gx	171695
570-66942-27	S-12.5-E8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-37	S-12.5-E6	Total/NA	Solid	NWTPH-Gx	171695
570-66942-57	S-12.5-E2	Total/NA	Solid	NWTPH-Gx	171696
570-66942-81	S-12.5-F5	Total/NA	Solid	NWTPH-Gx	171696
570-66942-91	S-12.5-F7	Total/NA	Solid	NWTPH-Gx	171696
570-66942-94	S-7.5-G8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-97	S-2.5-F9	Total/NA	Solid	NWTPH-Gx	171695
570-66942-101	S-12.5-F9	Total/NA	Solid	NWTPH-Gx	171696
570-66942-102	S-2.5-F9 DUP	Total/NA	Solid	NWTPH-Gx	171695
570-66942-104	S-5-18	Total/NA	Solid	NWTPH-Gx	171695
570-66942-112	S-12.5-H7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-133	S-12.5-H5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-134	S-14.5-H5	Total/NA	Solid	NWTPH-Gx	171695
MB 570-173459/21	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-173459/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173459/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173459/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 173725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-121	S-10-J7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-122	S-12.5-J7	Total/NA	Solid	NWTPH-Gx	171695
570-66942-123	S-14.5-I6	Total/NA	Solid	NWTPH-Gx	171696
570-66942-124	S-2.5-J5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-125	S-5-J5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-126	S-7.5-J5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-127	S-10-J5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-128	S-12.5-J5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-129	S-2.5-H5	Total/NA	Solid	NWTPH-Gx	171695

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Project/Site: ExxonMobil ADC / 0314476040

GC VOA (Continued)

Analysis Batch: 173725 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-130	S-5-H5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-131	S-7.5-H5	Total/NA	Solid	NWTPH-Gx	171695
570-66942-132	S-10-H5	Total/NA	Solid	NWTPH-Gx	171695
MB 570-173725/17	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-173725/18	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173725/15	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173725/16	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

Analysis Batch: 173959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-71	S-12.5-F3	Total/NA	Solid	NWTPH-Gx	171696
MB 570-173959/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173959/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173959/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

GC Semi VOA

Prep Batch: 173212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
570-66942-1	S-5-C2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-2	S-7.5-C2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-3	S-10-C2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-4	S-12.5-C2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-5	S-5-C4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-6	S-7.5-C4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-7	S-10-C4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-8	S-12.5-C4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-9	S-2.5-C6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-10 - DL	S-5-C6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-11	S-7.5-C6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-12	S-10-C6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-13	S-2.5-C8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-14	S-5-C8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-15	S-7.5-C8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-16	S-10-C8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-17	S-12.5-C8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-18	S-2.5-D9	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-19	S-5-D9	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-20	S-7.5-D9	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173212/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173212/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173212/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173212/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173212/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-1 MS	S-5-C2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-1 MS	S-5-C2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-1 MSD	S-5-C2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-1 MSD	S-5-C2	Silica Gel Cleanup	Solid	3550C SGC	

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC Semi VOA

Prep Batch: 173215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-21	S-10-D9	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-22	S-12.5-D9	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-23	S-2.5-E8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-24	S-5-E8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-25 - DL	S-7.5-E8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-26 - DL	S-10-E8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-27 - DL	S-12.5-E8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-28	S-2.5-D7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-29	S-5-D7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-30	S-7.5-D7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-31	S-10-D7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-32	S-12.5-D7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-33	S-2.5-E6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-34 - DL	S-5-E6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-35	S-7.5-E6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-36	S-10-E6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-37	S-12.5-E6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-38	S-2.5-D5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-39	S-5-D5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-40	S-7.5-D5	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173215/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173215/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173215/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173215/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173215/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-23 MS	S-2.5-E8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-23 MS	S-2.5-E8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-23 MSD	S-2.5-E8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-23 MSD	S-2.5-E8	Silica Gel Cleanup	Solid	3550C SGC	

Prep Batch: 173220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-41	S-10-D5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-42	S-12.5-D5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-43	S-2.5-E4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-44	S-5-E4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-45	S-7.5-E4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-46	S-10-E4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-47	S-12.5-E4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-48	S-2.5-D3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-49	S-5-D3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-50	S-7.5-D3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-51	S-10-D3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-52	S-12.5-D3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-53	S-2.5-E2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-54	S-5-E2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-55	S-7.5-E2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-56	S-10-E2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-57	S-12.5-E2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-58	S-2.5-D1	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-59	S-5-D1	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC Semi VOA (Continued)

Prep Batch: 173220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-60	S-7.5-D1	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173220/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173220/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173220/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173220/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173220/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-49 MS	S-5-D3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-49 MS	S-5-D3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-49 MSD	S-5-D3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-49 MSD	S-5-D3	Silica Gel Cleanup	Solid	3550C SGC	

Prep Batch: 173225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-61	S-10-D1	Silica Gel Cleanup	Solid	3550C SGC	-
570-66942-62	S-12.5-D1	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-63	S-2.5-G2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-64	S-5-G2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-66	S-10-G2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-67	S-12.5-G2	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-68	S-2.5-F3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-69	S-5-F3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-70	S-10-F3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-71	S-12.5-F3	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-72 - DL	S-2.5-G4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-73	S-5-G4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-74	S-7.5-G4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-75	S-10-G4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-76	S-12.5-G4	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-77	S-2.5-F5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-78 - DL	S-5-F5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-79 - DL	S-7.5-F5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-80 - DL	S-10-F5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-81	S-12.5-F5	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173225/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173225/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173225/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173225/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173225/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-61 MS	S-10-D1	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-61 MS	S-10-D1	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-61 MSD	S-10-D1	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-61 MSD	S-10-D1	Silica Gel Cleanup	Solid	3550C SGC	

Prep Batch: 173226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-82	S-2.5-G6	Silica Gel Cleanup	Solid	3550C SGC	-
570-66942-83	S-5-G6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-84	S-7.5-G6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-85	S-10-G6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-86	S-12.5-G6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-87	S-2.5-F7	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC Semi VOA (Continued)

Prep Batch: 173226 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-88 - DL	S-5-F7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-89 - DL2	S-7.5-F7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-90	S-10-F7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-91	S-12.5-F7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-92	S-2.5-G8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-93	S-5-G8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-94	S-7.5-G8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-95	S-10-G8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-96	S-12.5-G8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-97	S-2.5-F9	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-98	S-5-F9	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-99	S-7.5-F9	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-100	S-10-F9	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-101	S-12.5-F9	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173226/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173226/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173226/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173226/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173226/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-82 MS	S-2.5-G6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-82 MS	S-2.5-G6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-82 MSD	S-2.5-G6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-82 MSD	S-2.5-G6	Silica Gel Cleanup	Solid	3550C SGC	

Prep Batch: 173228

Prep Batch: 173228					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-102	S-2.5-F9 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-103	S-2.5-18	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-104	S-5-I8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-105	S-7.5-I8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-106	S-10-I8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-107	S-12.5-I8	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-108	S-2.5-H7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-109	S-5-H7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-110	S-7.5-H7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-111	S-10-H7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-112	S-12.5-H7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-113	S-2.5-I6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-114	S-5-16	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-115	S-7.5-I6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-116	S-10-I6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-117	S-12.5-I6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-118	S-2.5-J7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-119	S-5-J7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-120	S-7.5-J7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-121	S-10-J7	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173228/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173228/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173228/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173228/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173228/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC Semi VOA (Continued)

Prep Batch: 173228 (Continued)

Lab Sample ID 570-66942-102 MS	S-2.5-F9 DUP	Prep Type Silica Gel Cleanup	Matrix Solid	Method 3550C SGC	Prep Batch
570-66942-102 MS	S-2.5-F9 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-102 MSD	S-2.5-F9 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-102 MSD	S-2.5-F9 DUP	Silica Gel Cleanup	Solid	3550C SGC	

Prep Batch: 173229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-122	S-12.5-J7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-123	S-14.5-I6	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-124	S-2.5-J5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-125	S-5-J5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-126	S-7.5-J5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-127	S-10-J5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-128	S-12.5-J5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-129	S-2.5-H5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-130	S-5-H5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-131	S-7.5-H5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-132	S-10-H5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-133	S-12.5-H5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-134	S-14.5-H5	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-135	S-5-D5 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-136	S-10-E4 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-137	S-10-D1 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-138	S-10-F9 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-139	S-5-J5 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-140	S-5-H5 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-141	S-7.5-H7 DUP	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173229/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173229/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173229/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173229/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173229/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-122 MS	S-12.5-J7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-122 MS	S-12.5-J7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-122 MSD	S-12.5-J7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-122 MSD	S-12.5-J7	Silica Gel Cleanup	Solid	3550C SGC	

Analysis Batch: 173940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-2	S-7.5-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-3	S-10-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-4	S-12.5-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-5	S-5-C4	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-6	S-7.5-C4	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-7	S-10-C4	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-8	S-12.5-C4	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-9	S-2.5-C6	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-11	S-7.5-C6	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-12	S-10-C6	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-13	S-2.5-C8	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-14	S-5-C8	Silica Gel Cleanup	Solid	NWTPH-Dx	173212

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC Semi VOA (Continued)

Analysis Batch: 173940 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
570-66942-15	S-7.5-C8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-16	S-10-C8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-17	S-12.5-C8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-18	S-2.5-D9	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-19	S-5-D9	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-20	S-7.5-D9	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-21	S-10-D9	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-22	S-12.5-D9	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-23	S-2.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-24	S-5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-25 - DL	S-7.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-26 - DL	S-10-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-27 - DL	S-12.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-28	S-2.5-D7	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-29	S-5-D7	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-30	S-7.5-D7	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-31	S-10-D7	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-32	S-12.5-D7	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-33	S-2.5-E6	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-34 - DL	S-5-E6	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-35	S-7.5-E6	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-36	S-10-E6	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-37	S-12.5-E6	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-38	S-2.5-D5	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-39	S-5-D5	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-40	S-7.5-D5	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
MB 570-173212/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
MB 570-173215/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
LCS 570-173212/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
LCS 570-173212/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
LCS 570-173215/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
LCS 570-173215/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
LCSD 570-173212/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
LCSD 570-173212/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
LCSD 570-173215/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
LCSD 570-173215/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-23 MS	S-2.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	1732
570-66942-23 MS	S-2.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-23 MSD	S-2.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321
570-66942-23 MSD	S-2.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	17321

Analysis Batch: 174335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-1	S-5-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-41	S-10-D5	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-42	S-12.5-D5	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-43	S-2.5-E4	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-44	S-5-E4	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-45	S-7.5-E4	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-46	S-10-E4	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-47	S-12.5-E4	Silica Gel Cleanup	Solid	NWTPH-Dx	173220

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC Semi VOA (Continued)

Analysis Batch: 174335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-48	S-2.5-D3	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-49	S-5-D3	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-50	S-7.5-D3	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-51	S-10-D3	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-52	S-12.5-D3	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-53	S-2.5-E2	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-54	S-5-E2	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-55	S-7.5-E2	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-56	S-10-E2	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-57	S-12.5-E2	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-58	S-2.5-D1	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-59	S-5-D1	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-60	S-7.5-D1	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
MB 570-173220/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
LCS 570-173220/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
LCS 570-173220/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
LCSD 570-173220/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
LCSD 570-173220/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-1 MS	S-5-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-1 MS	S-5-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-1 MSD	S-5-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-1 MSD	S-5-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-49 MS	S-5-D3	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-49 MS	S-5-D3	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-49 MSD	S-5-D3	Silica Gel Cleanup	Solid	NWTPH-Dx	173220
570-66942-49 MSD	S-5-D3	Silica Gel Cleanup	Solid	NWTPH-Dx	173220

Analysis Batch: 175001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-82	S-2.5-G6	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-83	S-5-G6	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-84	S-7.5-G6	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-85	S-10-G6	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-86	S-12.5-G6	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-87	S-2.5-F7	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
MB 570-173226/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
LCS 570-173226/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
LCS 570-173226/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
LCSD 570-173226/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
LCSD 570-173226/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-82 MS	S-2.5-G6	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-82 MS	S-2.5-G6	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-82 MSD	S-2.5-G6	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-82 MSD	S-2.5-G6	Silica Gel Cleanup	Solid	NWTPH-Dx	173226

Analysis Batch: 175006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-61	S-10-D1	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-62	S-12.5-D1	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-63	S-2.5-G2	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-64	S-5-G2	Silica Gel Cleanup	Solid	NWTPH-Dx	173225

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC Semi VOA (Continued)

Analysis Batch: 175006 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-66	S-10-G2	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-67	S-12.5-G2	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-69	S-5-F3	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-70	S-10-F3	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-71	S-12.5-F3	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-73	S-5-G4	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-74	S-7.5-G4	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-75	S-10-G4	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-76	S-12.5-G4	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-77	S-2.5-F5	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-81	S-12.5-F5	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-102	S-2.5-F9 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-103	S-2.5-I8	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
MB 570-173225/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
MB 570-173228/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
LCS 570-173225/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
LCS 570-173225/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
LCS 570-173228/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
LCS 570-173228/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
LCSD 570-173225/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
LCSD 570-173225/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
LCSD 570-173228/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
LCSD 570-173228/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-61 MS	S-10-D1	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-61 MS	S-10-D1	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-61 MSD	S-10-D1	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-61 MSD	S-10-D1	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-102 MS	S-2.5-F9 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-102 MS	S-2.5-F9 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-102 MSD	S-2.5-F9 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-102 MSD	S-2.5-F9 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173228

Analysis Batch: 175125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-68	S-2.5-F3	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-72 - DL	S-2.5-G4	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-78 - DL	S-5-F5	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-79 - DL	S-7.5-F5	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-80 - DL	S-10-F5	Silica Gel Cleanup	Solid	NWTPH-Dx	173225
570-66942-104	S-5-18	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-105	S-7.5-I8	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-106	S-10-l8	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-107	S-12.5-I8	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-108	S-2.5-H7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-110	S-7.5-H7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-111	S-10-H7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-112	S-12.5-H7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-113	S-2.5-I6	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-115	S-7.5-I6	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-116	S-10-l6	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-117	S-12.5-I6	Silica Gel Cleanup	Solid	NWTPH-Dx	173228

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Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC Semi VOA (Continued)

Analysis Batch: 175125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-118	S-2.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-119	S-5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-120	S-7.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-122	S-12.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-123	S-14.5-I6	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-124	S-2.5-J5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-126	S-7.5-J5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-127	S-10-J5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-129	S-2.5-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-131	S-7.5-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-132	S-10-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-133	S-12.5-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-134	S-14.5-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-135	S-5-D5 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-136	S-10-E4 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-137	S-10-D1 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-140	S-5-H5 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-141	S-7.5-H7 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
MB 570-173229/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
LCS 570-173229/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
LCS 570-173229/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
LCSD 570-173229/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
LCSD 570-173229/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-122 MS	S-12.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-122 MS	S-12.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-122 MSD	S-12.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-122 MSD	S-12.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173229

Analysis Batch: 175154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-90	S-10-F7	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-91	S-12.5-F7	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-92	S-2.5-G8	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-93	S-5-G8	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-94	S-7.5-G8	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-95	S-10-G8	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-96	S-12.5-G8	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-97	S-2.5-F9	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-98	S-5-F9	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-99	S-7.5-F9	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-100	S-10-F9	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-101	S-12.5-F9	Silica Gel Cleanup	Solid	NWTPH-Dx	173226

Analysis Batch: 175226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-88 - DL	S-5-F7	Silica Gel Cleanup	Solid	NWTPH-Dx	173226

Analysis Batch: 175228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-109	S-5-H7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-114	S-5-I6	Silica Gel Cleanup	Solid	NWTPH-Dx	173228

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QC Association Summary

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

GC Semi VOA (Continued)

Analysis Batch: 175228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-121	S-10-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-125	S-5-J5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-128	S-12.5-J5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-130	S-5-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-138	S-10-F9 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-139	S-5-J5 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229

Analysis Batch: 175333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-10 - DL	S-5-C6	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-89 - DL2	S-7.5-F7	Silica Gel Cleanup	Solid	NWTPH-Dx	173226

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-C2

Lab Sample ID: 570-66942-1

Matrix: Solid

Date Collected: 08/09/21 09:35 Date Received: 08/12/21 10:15

Client: Cardno, Inc

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.255 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	171922	08/17/21 16:14	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			174335	08/26/21 12:34	A1W	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-66942-2

Matrix: Solid

Date Collected: 08/09/21 09:40 Date Received: 08/12/21 10:15

Client Sample ID: S-7.5-C2

	Batch	Batch	:h	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			22.357 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		20	5 mL	5 mL	173135	08/20/21 18:50	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 16:33	A1W	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-10-C2 Lab Sample ID: 570-66942-3

Date Collected: 08/09/21 09:45

Date Received: 08/12/21 10:15

Matrix: Solid

	Batch	Batch	atch	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.588 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	171922	08/17/21 17:25	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.96 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 16:54	A1W	ECL 1
	Instrumer	nt ID: GC48								

Date Collected: 08/09/21 09:50
Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.402 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172815	08/19/21 22:50	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.92 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 17:15	A1W	ECL 1
	Instrumen	t ID: GC48								

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-C4

Date Collected: 08/09/21 09:55 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.251 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC57		250	5 mL	5 mL	172559	08/19/21 06:27	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.94 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 17:37	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-C4

Date Collected: 08/09/21 10:00

Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-6 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.998 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	173135	08/20/21 19:14	A9VE	ECL 2
	Instrumen	it ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 17:58	A1W	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-10-C4

Date Collected: 08/09/21 10:05

Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-7

Lab Sample ID: 570-66942-8

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.957 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		100	5 mL	5 mL	173459	08/23/21 15:35	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 18:19	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-12.5-C4

Date Collected: 08/09/21 10:10

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.639 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	171922	08/17/21 20:10	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 18:41	A1W	ECL 1
	Instrumen	it ID: GC48								

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-C6

Date Collected: 08/09/21 10:40 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-9

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.977 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	171922	08/17/21 20:33	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			173940	08/24/21 19:02	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-5-C6 Lab Sample ID: 570-66942-10

Date Collected: 08/09/21 11:00 Date Received: 08/12/21 10:15

Dil Initial Final Batch Batch Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 11.383 g 5 g 171696 08/16/21 13:38 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 172337 08/18/21 14:02 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC DL 10.16 g 10 mL 173212 08/20/21 16:19 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx DL 175333 08/30/21 15:43 UJ3K ECL 1 5 Instrument ID: GC50

Client Sample ID: S-7.5-C6 Lab Sample ID: 570-66942-11

Date Collected: 08/09/21 10:50 Date Received: 08/12/21 10:15

Matrix: Solid

	Batch	Batch	ch	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.235 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	172337	08/18/21 16:23	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			173940	08/24/21 20:29	A1W	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-10-C6 Lab Sample ID: 570-66942-12 **Matrix: Solid**

Date Collected: 08/09/21 11:05 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.614 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	171922	08/17/21 21:44	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 20:51	A1W	ECL 1
	Instrumen	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Instrument ID: GC48

Client Sample ID: S-2.5-C8

Client: Cardno, Inc

Date Collected: 08/09/21 11:35 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-13

Lab Sample ID: 570-66942-15

Matrix: Solid

Batch Batch Dil Initial Batch Final Prepared **Prep Type** Method **Factor Amount** Amount Number or Analyzed Type Run Analyst Lab 8.069 g Total/NA 5035 171696 08/16/21 13:38 EDZ4 ECL 2 Prep 5 g Total/NA ECL 2 NWTPH-Gx 171922 08/17/21 22:08 P1R Analysis 1 5 g 5 mL Instrument ID: GC57 Silica Gel Cleanup Prep 3550C SGC 10.12 g 10 mL 173212 08/20/21 16:19 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 173940 08/24/21 21:12 A1W ECL 1

Client Sample ID: S-5-C8 Lab Sample ID: 570-66942-14 Date Collected: 08/09/21 11:40 **Matrix: Solid**

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.411 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	171922	08/17/21 22:31	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 21:34	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-7.5-C8 Date Collected: 08/09/21 11:45

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.919 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	171922	08/17/21 22:55	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 21:55	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-C8 Lab Sample ID: 570-66942-16

Date Collected: 08/09/21 11:50 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.636 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172559	08/19/21 06:51	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			173940	08/24/21 22:17	A1W	ECL 1
	Instrumen	it ID: GC48								

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Matrix: Solid

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-C8

Date Collected: 08/09/21 11:55 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.106 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172559	08/19/21 10:52	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			173940	08/24/21 22:39	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-2.5-D9 Lab Sample ID: 570-66942-18 Date Collected: 08/09/21 12:00 Matrix: Solid

Date Received: 08/12/21 10:15

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5 g Prep 5035 6.754 g 171696 08/16/21 13:38 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 172337 08/18/21 14:25 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.14 g 10 mL 173212 08/20/21 16:19 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 173940 08/24/21 23:01 A1W ECL 1 Analysis 1 Instrument ID: GC48

Client Sample ID: S-5-D9 Lab Sample ID: 570-66942-19 **Matrix: Solid**

Date Collected: 08/09/21 12:05 Date Received: 08/12/21 10:15

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 6.544 g 5 g 171696 08/16/21 13:38 EDZ4 ECL 2 Prep Total/NA Analysis **NWTPH-Gx** 5 mL 172337 08/18/21 14:49 P1R ECL 2 5 g Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 08/20/21 16:19 USUL ECL 1 Prep 10.16 g 10 mL 173212 Silica Gel Cleanup Analysis NWTPH-Dx 2 173940 08/24/21 23:22 A1W ECL 1

Client Sample ID: S-7.5-D9 Lab Sample ID: 570-66942-20

Date Collected: 08/09/21 12:10 Date Received: 08/12/21 10:15

Instrument ID: GC48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.497 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	172559	08/19/21 04:53	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		50			173940	08/25/21 13:09	A1W	ECL 1
	Instrumen	t ID: GC48								

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Lab Sample ID: 570-66942-21

Matrix: Solid

Client Sample ID: S-10-D9 Date Collected: 08/09/21 12:15 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.626 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172559	08/19/21 10:29	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			173940	08/25/21 03:02	A1W	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-66942-22

Lab Sample ID: 570-66942-23

Matrix: Solid

Matrix: Solid

Date Collected: 08/09/21 12:20 Date Received: 08/12/21 10:15

Client Sample ID: S-12.5-D9

Batch Dil Initial Batch Batch Final Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 3.986 g 5 mL 171695 08/16/21 13:37 EDZ4 ECL 2 Total/NA **NWTPH-Gx** ECL 2 Analysis 20 5 mL 5 mL 172337 08/18/21 18:21 P1R Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.16 g 10 mL 173215 08/20/21 16:23 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 173940 08/25/21 04:06 A1W ECL 1 1 Instrument ID: GC48

Client Sample ID: S-2.5-E8

Date Collected: 08/09/21 12:25

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.825 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC57		1	5 g	5 mL	172337	08/18/21 15:12	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/25/21 04:28	A1W	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-5-E8 Lab Sample ID: 570-66942-24 Matrix: Solid

Date Collected: 08/09/21 12:30

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.801 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	172559	08/19/21 05:16	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			173940	08/25/21 04:50	A1W	ECL 1
	Instrumen	t ID: GC48								

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-E8

Client: Cardno, Inc

Date Collected: 08/09/21 12:35 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-25

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13.524 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC57		250	5 mL	5 mL	172559	08/19/21 11:16	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC	DL		10.20 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			173940	08/25/21 14:57	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-E8

Date Collected: 08/09/21 12:40

Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-26

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.081 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172559	08/19/21 11:39	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.15 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			173940	08/25/21 15:34	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-12.5-E8

Date Collected: 08/09/21 12:45

Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-27

Lab Sample ID: 570-66942-28

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.617 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		50	5 mL	5 mL	173459	08/23/21 15:59	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC	DL		10.05 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			173940	08/25/21 13:31	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-2.5-D7

Date Collected: 08/09/21 12:50

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.416 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	172337	08/18/21 16:47	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.25 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			173940	08/25/21 06:16	A1W	ECL 1
	Instrumen	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Instrument ID: GC48

Client Sample ID: S-5-D7

Client: Cardno, Inc

Date Collected: 08/09/21 12:55 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-29

Matrix: Solid

Batch Batch Batch Dil Initial Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab Total/NA 5035 6.059 g 171695 08/16/21 13:37 ECL 2 Prep 5 mL EDZ4 Total/NA ECL 2 **NWTPH-Gx** 172559 08/19/21 05:40 P1R Analysis 1000 5 mL 5 mL Instrument ID: GC57 Silica Gel Cleanup Prep 3550C SGC 10.21 g 10 mL 173215 08/20/21 16:23 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 25 173940 08/25/21 06:39 A1W ECL 1

Client Sample ID: S-7.5-D7 Lab Sample ID: 570-66942-30 Date Collected: 08/09/21 13:00 Matrix: Solid

Date Received: 08/12/21 10:15

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA Prep 5035 9.336 g 5 mL 171695 08/16/21 13:37 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 250 5 mL 5 mL 172559 08/19/21 03:42 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.16 g 10 mL 173215 08/20/21 16:23 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 173940 08/25/21 07:00 A1W ECL 1 Analysis 20 Instrument ID: GC48

Client Sample ID: S-10-D7 Lab Sample ID: 570-66942-31 Date Collected: 08/09/21 13:05

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.276 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172559	08/19/21 12:26	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.20 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		20			173940	08/25/21 07:21	A1W	ECL 1
	,	nt ID: GC48								

Client Sample ID: S-12.5-D7 Lab Sample ID: 570-66942-32

Date Collected: 08/09/21 13:10 Date Received: 08/12/21 10:15

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.664 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	172559	08/19/21 08:02	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/25/21 07:43	A1W	ECL 1
	Instrumer	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-E6

Client: Cardno, Inc

Date Collected: 08/09/21 13:45 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-33

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.893 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		250	5 mL	5 mL	172815	08/19/21 22:03	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			173940	08/25/21 08:05	A1W	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-66942-34

Matrix: Solid

Date Collected: 08/09/21 13:50 Date Received: 08/12/21 10:15

Client Sample ID: S-5-E6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.908 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172815	08/19/21 21:39	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.00 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	100			173940	08/25/21 13:53	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-7.5-E6 Lab Sample ID: 570-66942-35

Date Received: 08/12/21 10:15

Date Collected: 08/09/21 13:55 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.015 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC25		100	5 mL	5 mL	173152	08/21/21 15:35	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.01 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx nt ID: GC48		2			173940	08/25/21 08:50	A1W	ECL 1

Client Sample ID: S-10-E6 Lab Sample ID: 570-66942-36 **Matrix: Solid**

Date Collected: 08/09/21 14:00 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.993 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172815	08/19/21 20:52	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			173940	08/25/21 14:14	A1W	ECL 1
	Instrumer	t ID: GC48								

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-E6

Date Collected: 08/09/21 14:05 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-37

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.171 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	173459	08/23/21 16:23	A9VE	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/25/21 09:33	A1W	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-66942-38

Matrix: Solid

Date Collected: 08/09/21 14:10 Date Received: 08/12/21 10:15

Client Sample ID: S-2.5-D5

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 6.433 g 5 mL 171695 08/16/21 13:37 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 250 5 mL 5 mL 172815 08/19/21 20:04 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.11 g 10 mL 173215 08/20/21 16:23 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 173940 08/25/21 09:55 A1W ECL 1 Analysis 1 Instrument ID: GC48

Client Sample ID: S-5-D5

Date Collected: 08/09/21 14:15 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-39

Lab Sample ID: 570-66942-40

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.807 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		250	5 mL	5 mL	172815	08/19/21 19:41	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			173940	08/25/21 14:36	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-7.5-D5

Date Collected: 08/09/21 14:20

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.456 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	173135	08/20/21 19:37	A9VE	ECL 2

10.12 g Silica Gel Cleanup 3550C SGC 10 mL 173215 08/20/21 16:23 USUL ECL 1 Prep Silica Gel Cleanup Analysis **NWTPH-Dx** 173940 08/25/21 10:38 A1W ECL₁ Instrument ID: GC48

2

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-D5

Date Collected: 08/09/21 14:25

Lab Sample ID: 570-66942-41

Matrix: Solid

Matrix: Solid

ECL 1

Matrix: Solid

Matrix: Solid

Date Received: 08/12/21 10:15

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.36 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172815	08/19/21 19:17	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 12:55	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-12.5-D5

Batch

Type

Prep

Analysis

Analysis

Date Collected: 08/09/21 14:30 Date Received: 08/12/21 10:15

Prep Type

Total/NA

Total/NA

Silica Gel Cleanup

Silica Gel Cleanup

/09/21 14:30 12/21 10:15

Initial

Amount

6.516 g

5 g

10.05 g

Final

Amount

5 g

5 mL

10 mL

174335

Dil

Factor

Run

 Batch
 Prepared or Analyzed
 Analyst
 Lab

 171696
 08/16/21 13:38
 EDZ4
 ECL 2

 172559
 08/19/21 08:55
 P1R
 ECL 2

 173220
 08/20/21 16:35
 USUL
 ECL 1

Lab Sample ID: 570-66942-43

Lab Sample ID: 570-66942-44

08/25/21 20:56 A1W

Lab Sample ID: 570-66942-42

Instrument ID: GC48

Instrument ID: GC57

Batch

5035

Method

NWTPH-Gx

3550C SGC

NWTPH-Dx

Client Sample ID: S-2.5-E4 Date Collected: 08/09/21 14:35

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.339 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/20/21 20:01	A9VE	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.04 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 13:17	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-5-E4

Date Collected: 08/09/21 14:40

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.593 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/20/21 20:24	A9VE	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/25/21 21:40	A1W	ECL 1
	Instrumer	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-E4

Client: Cardno, Inc

Date Collected: 08/09/21 14:45 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.278 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		20	5 mL	5 mL	173340	08/21/21 16:28	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174335	08/25/21 22:01	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-E4

Date Collected: 08/09/21 14:50

Date Received: 08/12/21 10:15

Lab Sample ID. 370-00342-40	
Matrix: Solid	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.779 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	173340	08/21/21 16:51	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174335	08/25/21 22:24	A1W	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-12.5-E4

Date Collected: 08/09/21 14:55

Date Received: 08/12/21 10:15

Lab	Sample	ID:	ਹ /	U-0094Z-41
				Matrix: Solid

Lab Sample ID: 570-66942-48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.318 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173454	08/23/21 18:21	P1R	ECL 2
	Instrumen	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174335	08/25/21 22:45	A1W	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-2.5-D3

Date Collected: 08/09/21 15:00

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.592 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/20/21 21:59	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 13:39	A1W	ECL 1
	Instrumen	t ID: GC48								

Matrix: Solid

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-D3

Date Collected: 08/09/21 15:05 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-49

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.689 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		250	5 mL	5 mL	173340	08/21/21 18:24	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.25 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		50			174335	08/26/21 06:03	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-7.5-D3

Date Collected: 08/09/21 15:10

Lab Sample ID: 570-66942-50

Matrix: Solid

Date Collected: 08/09/21 15:10 Date Received: 08/12/21 10:15

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 6.31 g 5 mL 171695 08/16/21 13:37 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 100 5 mL 5 mL 173135 08/20/21 23:57 A9VE ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 10.20 g 10 mL 173220 08/20/21 16:35 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 174335 08/26/21 06:25 A1W ECL 1 10 Instrument ID: GC48

Client Sample ID: S-10-D3

Date Collected: 08/09/21 15:15

Lab Sample ID: 570-66942-51

Matrix: Solid

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.918 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/21/21 00:20	A9VE	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 07:31	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-12.5-D3 Lab Sample ID: 570-66942-52

Date Collected: 08/09/21 15:20 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.231 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173340	08/21/21 13:40	A9VE	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174335	08/26/21 07:52	A1W	ECL 1
	Instrumer	t ID: GC48								

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-E2

Date Collected: 08/09/21 15:25 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-53

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.841 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		100	5 mL	5 mL	173135	08/21/21 01:08	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 08:13	A1W	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-5-E2

Date Collected: 08/09/21 15:30

Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-54 **Matrix: Solid**

Lab Sample ID: 570-66942-55

Lab Sample ID: 570-66942-56

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.432 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/21/21 01:31	A9VE	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 08:34	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-E2

Date Collected: 08/09/21 15:35

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.178 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/21/21 01:55	A9VE	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.04 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174335	08/26/21 08:57	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-10-E2

Date Collected: 08/09/21 15:40

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.859 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/21/21 02:19	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.20 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174335	08/26/21 09:20	A1W	ECL 1
	Instrumen	t ID: GC48								

2

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-E2

Date Collected: 08/09/21 15:45
Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-57

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.397 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173459	08/23/21 12:27	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174335	08/26/21 09:41	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-2.5-D1

Date Collected: 08/09/21 15:50

Lab Sample ID: 570-66942-58

Matrix: Solid

Date Received: 08/12/21 10:15

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 7.214 g 5 mL 171695 08/16/21 13:37 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 100 5 mL 5 mL 173135 08/21/21 03:06 A9VE ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 10.26 g 10 mL 173220 08/20/21 16:35 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 2 174335 08/26/21 10:03 A1W ECL 1 Instrument ID: GC48

Client Sample ID: S-5-D1 Date Collected: 08/09/21 15:55

Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-59 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.375 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/21/21 03:29	A9VE	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 10:24	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-D1 Lab Sample ID: 570-66942-60

Date Collected: 08/09/21 16:00 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.15 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173340	08/21/21 14:04	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 10:46	A1W	ECL 1
	Instrumen	t ID: GC48								

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-D1

Client: Cardno, Inc

Date Collected: 08/09/21 16:05 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-61

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.241 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC1		100	5 mL	5 mL	173304	08/21/21 06:38	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 00:26	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-66942-62

Matrix: Solid

Date Collected: 08/09/21 16:10 Date Received: 08/12/21 10:15

Client Sample ID: S-12.5-D1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.36 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173340	08/21/21 14:28	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.26 g	10 mL	173225	08/20/21 16:52	USUI	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1	10.20 g	TOTAL	175006	08/28/21 00:47		ECL 1
,	,	t ID: GC48								

Lab Sample ID: 570-66942-63 **Client Sample ID: S-2.5-G2**

Date Collected: 08/10/21 07:45 **Matrix: Solid** Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.78 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173304	08/21/21 07:27	A9VE	ECL 2
	instrumer	nt ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.27 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175006	08/28/21 01:09	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-5-G2 Lab Sample ID: 570-66942-64

Date Collected: 08/10/21 07:50 **Matrix: Solid** Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.993 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173304	08/21/21 07:51	A9VE	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.23 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 01:31	N5Y3	ECL 1
	Instrumen	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-G2

Client: Cardno, Inc

Date Collected: 08/10/21 07:55 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-66

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.745 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	173340	08/21/21 15:39	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 01:53	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-12.5-G2 Lab Sample ID: 570-66942-67 Date Collected: 08/10/21 08:00 **Matrix: Solid**

Date Received: 08/12/21 10:15

Dil Initial Final Batch Batch Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 4.137 g 5 g 171696 08/16/21 13:40 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 173340 08/21/21 14:51 A9VE ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 10.24 g 10 mL 173225 08/20/21 16:52 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175006 08/28/21 02:15 N5Y3 ECL 1 Instrument ID: GC48

Client Sample ID: S-2.5-F3 Lab Sample ID: 570-66942-68 Date Collected: 08/10/21 08:05 **Matrix: Solid**

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.093 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173304	08/21/21 09:04	A9VE	ECL 2
	Instrumer	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175125	08/28/21 21:10	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-5-F3 Lab Sample ID: 570-66942-69

Date Collected: 08/10/21 08:10 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.676 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173304	08/21/21 09:28	A9VE	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 02:58	N5Y3	ECL 1
	Instrumen	t ID: GC48								

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-F3

Client: Cardno, Inc

Date Collected: 08/10/21 08:15 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-70

Lab Sample ID: 570-66942-72

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.223 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173340	08/21/21 15:15	A9VE	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 03:20	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-12.5-F3 Lab Sample ID: 570-66942-71 Date Collected: 08/10/21 08:20 **Matrix: Solid**

Date Received: 08/12/21 10:15

Dil Initial Final Batch Batch Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 6.262 g 5 g 171696 08/16/21 13:40 EDZ4 ECL 2 Total/NA ECL 2 Analysis **NWTPH-Gx** 5 g 5 mL 173959 08/24/21 18:01 P1R Instrument ID: GC57 Silica Gel Cleanup Prep 3550C SGC 10.29 g 10 mL 173225 08/20/21 16:52 USUL ECL 1 NWTPH-Dx Silica Gel Cleanup Analysis 175006 08/28/21 03:44 N5Y3 ECL 1 1 Instrument ID: GC48

Client Sample ID: S-2.5-G4 **Date Collect**

Date Receiv

Dron Typo

8/10/21 0 8/12/21 1								Mi	atrix: Solid	
Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
 -	5005			0.770	I	474005	00/40/04 40 07	ED74	<u> </u>	

Prep Type	туре	wethod	Run	ractor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.772 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173152	08/21/21 00:02	P1R	ECL 2
	Instrumen	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.33 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175125	08/28/21 21:31	N5Y3	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-5-G4 Lab Sample ID: 570-66942-73 Matrix: Solid

Date Collected: 08/10/21 08:30 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.668 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173152	08/21/21 14:09	P1R	ECL 2
	Instrumer	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 05:10	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-G4

Client: Cardno, Inc

Date Collected: 08/10/21 08:35 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-74

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.246 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	173340	08/21/21 19:11	A9VE	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 05:32	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-10-G4

Date Collected: 08/10/21 08:40

Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-75 Matrix: Solid

Lab Sample ID: 570-66942-76

Lab Sample ID: 570-66942-77

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.92 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC25		100	5 mL	5 mL	173152	08/21/21 11:09	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 05:54	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-12.5-G4

Date Collected: 08/10/21 08:05

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.857 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173152	08/21/21 15:07	P1R	ECL 2
	Instrumer	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 06:15	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-2.5-F5

Date Collected: 08/10/21 09:15

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.985 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173152	08/21/21 12:06	P1R	ECL 2
	Instrumen	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			9.97 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 06:37	N5Y3	ECL 1
	Instrumen	t ID: GC48								

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Matrix: Solid

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-F5

Date Collected: 08/10/21 09:20 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-78

Lab Sample ID: 570-66942-80

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.233 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173152	08/21/21 12:35	P1R	ECL 2
	Instrumer	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC	DL		9.92 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			175125	08/28/21 21:53	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-7.5-F5 Lab Sample ID: 570-66942-79 Date Collected: 08/10/21 09:25 **Matrix: Solid**

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.589 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173152	08/21/21 13:04	P1R	ECL 2
	Instrumen	it ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC	DL		9.98 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175125	08/28/21 22:16	N5Y3	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-10-F5 Date Collected: 08/10/21 09:30

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.187 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173152	08/21/21 13:35	P1R	ECL 2
	Instrumer	nt ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.05 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175125	08/28/21 22:39	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-12.5-F5 Lab Sample ID: 570-66942-81 Date Collected: 08/10/21 09:35 **Matrix: Solid**

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.258 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173459	08/23/21 13:14	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 08:04	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-G6

Client: Cardno, Inc

Date Collected: 08/10/21 09:40 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-82

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.527 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC57		100	5 mL	5 mL	173393	08/21/21 17:25	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175001	08/28/21 15:24	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Lab Sample ID: 570-66942-83

Matrix: Solid

Matrix: Solid

Date Collected: 08/10/21 09:45 Date Received: 08/12/21 10:15

Client Sample ID: S-5-G6

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.181 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173393	08/21/21 17:48	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175001	08/28/21 15:43	N5Y3	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-7.5-G6 Lab Sample ID: 570-66942-84

Date Collected: 08/10/21 09:50

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.4 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173393	08/21/21 18:12	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175001	08/28/21 16:03	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-10-G6 Lab Sample ID: 570-66942-85 **Matrix: Solid**

Date Collected: 08/10/21 09:55 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.788 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173393	08/21/21 18:35	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/28/21 16:23	N5Y3	ECL 1
	Instrumer	t ID: GC50								

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-G6

Date Collected: 08/10/21 10:00 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-86

Lab Sample ID: 570-66942-88

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.585 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		100	5 mL	5 mL	173393	08/21/21 18:59	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx		1			175001	08/28/21 16:43	N5Y3	ECL 1

Client Sample ID: S-2.5-F7

Date Collected: 08/10/21 10:05

Lab Sample ID: 570-66942-87

Matrix: Solid

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.639 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC57		100	5 mL	5 mL	173393	08/21/21 19:22	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx at ID: GC50		1			175001	08/28/21 17:02	N5Y3	ECL 1

Client Sample ID: S-5-F7
Date Collected: 08/10/21 10:10

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.307 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	173393	08/21/21 19:46	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.19 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			175226	08/30/21 04:04	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-7.5-F7

Date Collected: 08/10/21 10:15

Lab Sample ID: 570-66942-89

Matrix: Solid

Date Collected: 08/10/21 10:15 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.189 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173393	08/21/21 20:09	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL2		10.13 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL2	50			175333	08/30/21 15:23	UJ3K	ECL 1
	Instrumen	t ID: GC50								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-F7

Client: Cardno, Inc

Date Collected: 08/10/21 10:20 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-90

Lab Sample ID: 570-66942-91

Lab Sample ID: 570-66942-92

Lab Sample ID: 570-66942-93

Matrix: Solid

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.433 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		100	5 mL	5 mL	173393	08/21/21 20:33	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/28/21 23:06	N5Y3	ECL 1
	Instrumer	it ID: GC50								

Client Sample ID: S-12.5-F7

Date Collected: 08/10/21 10:25

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.892 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC57		1	5 mL	5 mL	173459	08/23/21 13:37	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/28/21 23:26	N5Y3	ECL 1

Client Sample ID: S-2.5-G8

Instrument ID: GC50

Date Collected: 08/10/21 10:35 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.825 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173393	08/21/21 22:07	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/28/21 23:46	N5Y3	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-5-G8

Date Collected: 08/10/21 10:40

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.892 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173393	08/21/21 22:31	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 00:07	N5Y3	ECL 1
	Instrumen	it ID: GC50								

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-G8

Client: Cardno, Inc

Date Collected: 08/10/21 10:45 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-94

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.775 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		500	5 mL	5 mL	173459	08/23/21 20:13	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175154	08/29/21 00:28	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-10-G8 Lab Sample ID: 570-66942-95 Date Collected: 08/10/21 10:50 **Matrix: Solid**

Date Received: 08/12/21 10:15

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 6.06 g 5 mL 171695 08/16/21 13:37 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 500 5 mL 5 mL 173393 08/21/21 23:18 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.16 g 10 mL 173226 08/20/21 16:57 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175154 08/29/21 00:50 N5Y3 ECL 1 5 Instrument ID: GC50

Client Sample ID: S-12.5-G8 Lab Sample ID: 570-66942-96 Date Collected: 08/10/21 10:55 **Matrix: Solid**

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.601 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173393	08/21/21 23:42	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175154	08/29/21 01:10	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-F9 Lab Sample ID: 570-66942-97

Date Collected: 08/10/21 11:15 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.559 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	173459	08/23/21 16:46	A9VE	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 01:29	N5Y3	ECL 1
	Instrumen	t ID: GC50								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-F9

Client: Cardno, Inc

Date Collected: 08/10/21 11:20 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-98

Lab Sample ID: 570-66942-100

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.757 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		250	5 mL	5 mL	173393	08/22/21 00:29	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		20			175154	08/29/21 02:32	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-7.5-F9 Lab Sample ID: 570-66942-99 Date Collected: 08/10/21 11:25 Matrix: Solid

Date Received: 08/12/21 10:15

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 6.238 g 5 mL 171695 08/16/21 13:37 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 100 5 mL 5 mL 173393 08/22/21 00:52 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.13 g 10 mL 173226 08/20/21 16:57 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 175154 08/29/21 02:52 N5Y3 ECL 1 Analysis 1 Instrument ID: GC50

Client Sample ID: S-10-F9 Date Collected: 08/10/21 11:30

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.527 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		100	5 mL	5 mL	173393	08/22/21 01:16	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175154	08/29/21 03:12	N5Y3	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-12.5-F9 Lab Sample ID: 570-66942-101 **Matrix: Solid**

Date Collected: 08/10/21 11:35 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.559 g	5 g	171696	08/16/21 13:43	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173459	08/23/21 14:24	A9VE	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 03:32	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-F9 DUP

Date Collected: 08/10/21 11:15

Lab Sample ID: 570-66942-102

Matrix: Solid

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.559 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	173459	08/23/21 17:10	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.96 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 11:20	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-2.5-I8 Lab Sample ID: 570-66942-103

Date Collected: 08/10/21 11:45

Matrix: Solid

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.289 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 00:43	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175006	08/28/21 11:42	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-5-I8

Date Collected: 08/10/21 11:50

Lab Sample ID: 570-66942-104

Matrix: Solid

Date Collected: 08/10/21 11:50 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.844 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	173459	08/23/21 20:36	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175125	08/28/21 13:56	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-7.5-I8

Date Collected: 08/10/21 11:55

Lab Sample ID: 570-66942-105

Matrix: Solid

Date Collected: 08/10/21 11:55 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.859 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 01:30	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 14:17	N5Y3	ECL 1
	Instrumen	it ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-I8 Lab Sample ID: 570-66942-106

Matrix: Solid

Date Collected: 08/10/21 12:00 Date Received: 08/12/21 10:15

Client: Cardno, Inc

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.711 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 01:54	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175125	08/28/21 14:39	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-12.5-I8 Lab Sample ID: 570-66942-107

Matrix: Solid

Date Collected: 08/10/21 12:05 Date Received: 08/12/21 10:15

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 3.085 g 5 mL 171695 08/16/21 13:53 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 100 5 mL 5 mL 173418 08/22/21 02:17 P1R ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 10.11 g 10 mL 173228 08/20/21 16:59 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 2 175125 08/28/21 15:00 N5Y3 ECL 1 Analysis Instrument ID: GC48

Client Sample ID: S-2.5-H7 Lab Sample ID: 570-66942-108

Date Collected: 08/10/21 12:10 **Matrix: Solid**

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.926 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 02:41	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175125	08/28/21 15:22	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-5-H7 Lab Sample ID: 570-66942-109

Date Collected: 08/10/21 12:15 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.474 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 03:05	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.92 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		25			175228	08/30/21 04:53	N1A	ECL 1
	Instrumer	t ID: GC48								

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-H7

Client: Cardno, Inc

Date Collected: 08/10/21 12:20 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-110

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.942 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC56		100	5 mL	5 mL	173418	08/22/21 03:28	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.01 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1	-		175125	08/28/21 16:05	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-66942-111

Matrix: Solid

Date Collected: 08/10/21 12:25 Date Received: 08/12/21 10:15

Client Sample ID: S-10-H7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.669 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC56		100	5 mL	5 mL	173418	08/22/21 03:52	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx		1			175125	08/28/21 16:26	N5Y3	ECL 1

Client Sample ID: S-12.5-H7 Lab Sample ID: 570-66942-112

Date Collected: 08/10/21 12:30

Date Received: 08/12/21 10:15

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.078 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	173459	08/23/21 19:49	A9VE	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 16:48	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-2.5-I6 Lab Sample ID: 570-66942-113

Date Collected: 08/10/21 12:35

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.58 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 05:27	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 17:09	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-I6

Client: Cardno, Inc

Date Collected: 08/10/21 12:40 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-114

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.077 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		100	5 mL	5 mL	173418	08/22/21 05:50	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175228	08/30/21 05:16	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-I6

Lab Sample ID: 570-66942-115 Date Collected: 08/10/21 12:45 **Matrix: Solid** Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.223 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC56		100	5 mL	5 mL	173418	08/22/21 06:14	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 17:53	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-66942-116 **Client Sample ID: S-10-I6**

Date Collected: 08/10/21 12:50

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.804 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 06:37	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 18:14	N5Y3	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-12.5-I6 Lab Sample ID: 570-66942-117 **Matrix: Solid**

Date Collected: 08/10/21 12:55

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.396 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 07:01	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 18:36	N5Y3	ECL 1
	Instrumen	t ID: GC48								

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-J7

Client: Cardno, Inc

Date Collected: 08/10/21 13:05 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-118

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.765 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC56		100	5 mL	5 mL	173418	08/22/21 07:25	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		25			175125	08/28/21 18:58	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-5-J7

Date Collected: 08/10/21 13:10 Date Received: 08/12/21 10:15 Lab Sample ID: 570-66942-119

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.412 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		100	5 mL	5 mL	173418	08/22/21 07:48	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx at ID: GC48		1			175125	08/28/21 19:20	N5Y3	ECL 1

Client Sample ID: S-7.5-J7

Date Collected: 08/10/21 13:15

Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-120

Lab Sample ID: 570-66942-121

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.34 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 08:12	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 19:41	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-10-J7

Date Collected: 08/10/21 13:20

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.57 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1000	5 mL	5 mL	173725	08/24/21 11:03	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175228	08/30/21 05:39	N1A	ECL 1
	Instrumen	t ID: GC48								

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-J7

Client: Cardno, Inc

Date Collected: 08/10/21 13:25 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-122

Lab Sample ID: 570-66942-124

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.702 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC22		100	5 mL	5 mL	173725	08/23/21 20:08	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.96 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/29/21 01:57	N5Y3	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-14.5-I6 Lab Sample ID: 570-66942-123 Date Collected: 08/10/21 13:00 **Matrix: Solid**

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.192 g	5 g	171696	08/16/21 13:43	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC22		1	5 g	5 mL	173725	08/24/21 10:12	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx		1			175125	08/29/21 02:20	N5Y3	ECL 1

Client Sample ID: S-2.5-J5

Date Collected: 08/10/21 13:35

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.191 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173725	08/23/21 20:59	P1R	ECL 2
	Instrumer	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175125	08/29/21 02:42	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-5-J5 Lab Sample ID: 570-66942-125 **Matrix: Solid**

Date Collected: 08/10/21 13:40

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.4 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1000	5 mL	5 mL	173725	08/24/21 08:37	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		50			175228	08/30/21 06:00	N1A	ECL 1
	Instrumen	t ID: GC48								

Eurofins Calscience LLC

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-J5

Client: Cardno, Inc

Date Collected: 08/10/21 13:45 Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-126

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		6.577 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC22		1000	5 mL	5 mL	173725	08/24/21 11:29	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175125	08/29/21 03:24	N5Y3	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-10-J5

Date Collected: 08/10/21 13:50

Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-127

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.063 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173725	08/23/21 21:51	P1R	ECL 2
	Instrumer	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/29/21 04:31	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-12.5-J5

Date Collected: 08/10/21 13:55

Date Received: 08/12/21 10:15

Lab Sample ID: 570-66942-128

Lab Sample ID: 570-66942-129

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.114 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	173725	08/24/21 10:37	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 06:21	N1A	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-2.5-H5

Date Collected: 08/10/21 14:00

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.154 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173725	08/23/21 22:42	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175125	08/29/21 05:14	N5Y3	ECL 1
	Instrumen	t ID: GC48								

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-H5

Date Collected: 08/10/21 14:05 Date Received: 08/12/21 10:15

Client: Cardno, Inc

Lab Sample ID: 570-66942-130

Lab Sample ID: 570-66942-132

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.547 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC22		100	5 mL	5 mL	173725	08/23/21 23:08	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175228	08/30/21 06:43	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-H5 Lab Sample ID: 570-66942-131 Date Collected: 08/10/21 14:10 **Matrix: Solid**

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.117 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx t ID: GC22		100	5 mL	5 mL	173725	08/23/21 23:34	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx t ID: GC48		1			175125	08/29/21 05:59	N5Y3	ECL 1

Client Sample ID: S-10-H5 Date Collected: 08/10/21 14:15

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.496 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173725	08/24/21 01:17	P1R	ECL 2
	Instrumen	nt ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175125	08/29/21 06:20	N5Y3	ECL 1
	Instrumen	nt ID: GC48								

Client Sample ID: S-12.5-H5 Lab Sample ID: 570-66942-133 **Matrix: Solid**

Date Collected: 08/10/21 14:20 Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared		Lab
		Method						or Analyzed	Analyst	
Total/NA	Prep	5035			10.369 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	173459	08/23/21 19:03	A9VE	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/29/21 06:42	N5Y3	ECL 1
	Instrumen	t ID: GC48								

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-14.5-H5

Lab Sample ID: 570-66942-134

Matrix: Solid

Date Collected: 08/10/21 14:25 Date Received: 08/12/21 10:15

Client: Cardno, Inc

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.103 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	173459	08/23/21 19:26	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/29/21 07:04	N5Y3	ECL 1
	Instrumer	it ID: GC48								

Lab Sample ID: 570-66942-135

Date Collected: 08/09/21 14:15

Client Sample ID: S-5-D5 DUP

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch		Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared		
		Method	Run					or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.389 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC56		100	5 mL	5 mL	173340	08/21/21 20:22	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx at ID: GC48		5			175125	08/29/21 07:26	N5Y3	ECL 1

Client Sample ID: S-10-E4 DUP Lab Sample ID: 570-66942-136

Date Collected: 08/09/21 14:50

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch	Run	Dil Factor	Initial	Final Amount	Batch Number	Prepared		
		Method			Amount			or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.492 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		100	5 mL	5 mL	173340	08/21/21 20:46	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/29/21 07:49	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-10-D1 DUP

Lab Sample ID: 570-66942-137

Date Collected: 08/09/21 16:05
Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared		Lab
		Method						or Analyzed	Analyst	
Total/NA	Prep	5035			3.728 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173340	08/21/21 21:09	A9VE	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/29/21 08:10	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-F9 DUP

Client: Cardno, Inc

Lab Sample ID: 570-66942-138

Date Collected: 08/10/21 11:30 **Matrix: Solid** Date Received: 08/12/21 10:15

Batch Batch Batch Dil Initial Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor** Amount Amount Analyst Lab Total/NA 5035 8.476 g 171695 08/16/21 13:53 EDZ4 ECL 2 Prep 5 mL Total/NA NWTPH-Gx 173340 08/21/21 21:33 A9VE ECL 2 Analysis 100 5 mL 5 mL Instrument ID: GC56 Silica Gel Cleanup Prep 3550C SGC 10.12 g 10 mL 173229 08/20/21 17:02 USUL ECL 1 08/30/21 07:06 N1A Silica Gel Cleanup Analysis NWTPH-Dx 10 175228 ECL 1 Instrument ID: GC48

Client Sample ID: S-5-J5 DUP Lab Sample ID: 570-66942-139

Date Collected: 08/10/21 13:40 Matrix: Solid Date Received: 08/12/21 10:15

Prep Type	Batch	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared		
	Type							or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.592 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		500	5 mL	5 mL	173340	08/21/21 21:57	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		100			175228	08/30/21 07:27	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-5-H5 DUP Lab Sample ID: 570-66942-140

Date Collected: 08/10/21 14:05 **Matrix: Solid** Date Received: 08/12/21 10:15

Prep Type	Batch	Batch		Dil Factor	Initial	Final Amount	Batch Number	Prepared		
	Туре	Method	Run		Amount			or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.353 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC25		100	5 mL	5 mL	173454	08/23/21 20:26	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx nt ID: GC48		5			175125	08/29/21 09:16	N5Y3	ECL 1

Client Sample ID: S-7.5-H7 DUP Lab Sample ID: 570-66942-141

Date Collected: 08/10/21 12:20 **Matrix: Solid**

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch	Run	Dil Factor	Initial	Final Amount	Batch Number	Prepared		Lab
		Method			Amount			or Analyzed	Analyst	
Total/NA	Prep	5035			5.497 g	5 mL	171695	08/17/21 15:18	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173454	08/23/21 20:55	P1R	ECL 2
	Instrumer	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/29/21 09:37	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Cardno, Inc Job ID: 570-66942-1

Project/Site: ExxonMobil ADC / 0314476040

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-18	10-11-21

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Method Summary

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5035	Closed System Purge and Trap	SW846	ECL 2

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-66942-1

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de Guia, Cecile

From: Laina Cole <laina.cole@cardno.com>
Sent: Tuesday, August 31, 2021 12:21 PM

To: de Guia, Cecile

Subject: RE: Eurofins Calscience report and EDD files from 570-66942-1 ExxonMobil ADC /

0314476040

EXTERNAL EMAIL*

Cecile,

Confirmation sampling is not necessary. Would it be possible to updated sample 570-66942-102 to "S-2.5-F9 DUP"? I noticed that two samples were submitted with this ID.

Appreciate your assistance working through this project!

Thank you,

Laina Cole

SENIOR PROGRAM COORDINATOR | BRANCH SAFETY OFFICER CARDNO

Direct +1 206 394 7225 Office +1 800 499 8950
Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108
Email laina.cole@cardno.com Web www.cardno.com

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From: Cecile de Guia < Cecile.deGuia@eurofinset.com>

Sent: Monday, August 30, 2021 6:40 PM

To: Cam Penner-Ash <cameron.penner-ash@cardno.com>; Laina Cole <laina.cole@cardno.com>; Bobby Thompson

<robert.thompson@cardno.com>

Subject: Eurofins Calscience report and EDD files from 570-66942-1 ExxonMobil ADC / 0314476040

Hello,

Attached please find the report and EDD files for job 570-66942-1; ExxonMobil ADC / 0314476040

Most of the dup samples results were not matching. Do you want us to perform a confirmation run outside the holding time? let me know.

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Cecile de Guia

Project Manager

Eurofins Calscience LLC Phone: 714-895-5494

E-mail: Cecile.deGuia@eurofinset.com

www.eurofinsus.com/env



Reference: [570-236269] Attachments: 3

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

de Guia, Cecile

From: Keri Chappell < keri.chappell@cardno.com>
Sent: Wednesday, August 18, 2021 7:17 AM

To: de Guia, Cecile

Cc: Cam Penner-Ash; Laina Cole; Bobby Thompson

Subject: RE: Eurofins Calscience sample confirmation files from 570-66942-1 ExxonMobil ADC /

0314476040

EXTERNAL EMAIL*

Hi Cecile,

Our field personnel confirmed that we had no recovery from this interval and the sample name was listed on the COC by mistake. Please cross it out; there is no sample S-7.5-G2.

Thanks, Keri

Keri Chappell PG

PROJECT GEOLOGIST CARDNO

Direct +1 707 766 2000 Mobile +1 707 338 8015

Address 1310 Redwood Way Suite C, Petaluma, California 94954

Email keri.chappell@cardno.com Web www.cardno.com

The health, wellbeing and livelihoods of our people, families, clients and communities is Cardno's key priority. Our teams are responding to COVID-19 with robust business continuity plans and we will continue to work closely with our people and clients to support them every day. > LEARN MORE

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From: de Guia, Cecile < Cecile.de Guia@eurofinset.com>

Sent: Wednesday, August 18, 2021 12:05 AM **To:** Keri Chappell keri.chappell@cardno.com

Cc: Cam Penner-Ash <cameron.penner-ash@cardno.com>; Laina Cole <laina.cole@cardno.com>; Bobby Thompson

<robert.thompson@cardno.com>

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Subject: RE: Eurofins Calscience sample confirmation files from 570-66942-1 ExxonMobil ADC / 0314476040

Importance: High

Hi Keri,

There was one anomaly that our sample control inadvertently missed to add in the system. Sample #570-66942-65 (S-7.5-G2) was not received. Please verify and confirm.

Thank you.

Cecile

From: de Guia, Cecile

Sent: Tuesday, August 17, 2021 9:38 AM **To:** Keri Chappell keri.chappell@cardno.com

Cc: Cam Penner-Ash < cameron.penner-ash@cardno.com>; Laina Cole < laina.cole@cardno.com>; Bobby Thompson

<<u>robert.thompson@cardno.com</u>>

Subject: RE: Eurofins Calscience sample confirmation files from 570-66942-1 ExxonMobil ADC / 0314476040

Will do. Thank you.

Best regards, Cecile de Guia Project Manager

How are we doing? Let us know!



Eurofins Calscience, LLC 7440 Lincoln Way Garden Grove, CA 92841

USA

Phone: +1 714 895 5494

From: Keri Chappell < keri.chappell@cardno.com >

Sent: Monday, August 16, 2021 9:40 AM

To: de Guia, Cecile < cecile < cecile.deGuia@eurofinset.com>

Cc: Cam Penner-Ash < cameron.penner-ash@cardno.com>; Laina Cole < laina.cole@cardno.com>; Bobby Thompson

<robert.thompson@cardno.com>

Subject: RE: Eurofins Calscience sample confirmation files from 570-66942-1 ExxonMobil ADC / 0314476040

EXTERNAL EMAIL*

Hi Cecile,

Yes, please analyze one set (3 VOAs, 1 jar) as the parent and one set (3 VOAs, 1 jar) as the duplicate for 570-66942-110 (S-7.5-H7). I apologize for not having added "DUP" to the sample container name badges to differentiate them.

Thank you for logging in the duplicate samples and adding them to the COC; I sincerely appreciate it.

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Thanks, Keri

Keri Chappell PG

PROJECT GEOLOGIST CARDNO

Direct +1 707 766 2000 Mobile +1 707 338 8015
Address 1310 Redwood Way Suite C, Petaluma, California 94954
Email keri.chappell@cardno.com Web www.cardno.com

The health, wellbeing and livelihoods of our people, families, clients and communities is Cardno's key priority. Our teams are responding to COVID-19 with robust business continuity plans and we will continue to work closely with our people and clients to support them every day. > LEARN MORE

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From: Cecile de Guia < cecile.deGuia@eurofinset.com>

Sent: Friday, August 13, 2021 4:45 PM

To: Cam Penner-Ash < <u>cameron.penner-ash@cardno.com</u>>; Keri Chappell < <u>keri.chappell@cardno.com</u>>; Laina Cole < laina.cole@cardno.com>; Bobby Thompson < <u>robert.thompson@cardno.com</u>>

Subject: Eurofins Calscience sample confirmation files from 570-66942-1 ExxonMobil ADC / 0314476040

Importance: High

Hello,

Attached please find the sample confirmation files for job 570-66942-1; ExxonMobil ADC / 0314476040

Please advice on the following:

- 1)Received 8 containerrs for sample 570-66942-110 (S-7.5-H7). Should the extra set are to be analyzed as duplicate samples?
- 2) Samples received but were not listed on the COCs:

Sample: 570-66942-135 S-5-D5 DUP Sample: 570-66942-136 S-10-E4 DUP Sample: 570-66942-137 S-10-D1 DUP Sample: 570-66942-138 S-10-F9 DUP Sample: 570-66942-139 S-5-J5 DUP Sample: 570-66942-140 S-5-H5 DUP

These samples were added for analyses per your instruction. Please confirm.

Thank you.

Cecile de Guia

Project Manager

Eurofins Calscience LLC Phone: 714-895-5494

E-mail: Cecile.deGuia@eurofinset.com

www.eurofinsus.com/env



Reference: [570-231164] Attachments: 2



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* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

de Guia, Cecile

From: Bobby Thompson <robert.thompson@cardno.com>

Sent: Thursday, August 26, 2021 3:34 PM

To: de Guia, Cecile; Laina Cole; Cam Penner-Ash

Subject: RE: ExxonMobil ADC / 0314476040 - 570-67093 NWTPH-Dx for Diesel and Motor oil

EXTERNAL EMAIL*

Hello Cecile,

Understood on the delay for the two jobs. A lot was going on to get the ball rolling with the timely submission of samples. The 12-day TAT is acceptable for these two jobs. No need to report TPHg ahead of the other constituents.

Going forward, we hope to see the remainder of the samples reported on the requested 10-day turnaround time.

Thank you,

Bobby

Bobby Thompson

SENIOR PROJECT MANAGER CARDNO

Mobile +1 206 510 5855

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108

Email robert.thompson@cardno.com Web www.cardno.com

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From: de Guia, Cecile < Cecile.de Guia @ eurofinset.com>

Sent: Thursday, August 26, 2021 1:36 PM

To: Bobby Thompson <robert.thompson@cardno.com>; Laina Cole <laina.cole@cardno.com>; Cam Penner-Ash

<cameron.penner-ash@cardno.com>

Subject: ExxonMobil ADC / 0314476040 - 570-67093 NWTPH-Dx for Diesel and Motor oil

Good afternoon,

Here's another job for NWTPH-Dx for Diesel and Motor oil that will be reported late. However, NWTPH-Gx for gasoline is available for reporting if you want the sample results today.

Please let me know.

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I'm sorry for the delay. The lab is doing their very best to catch up.

Best regards, Cecile de Guia Project Manager

How are we doing? Let us know!



Eurofins Calscience, LLC 7440 Lincoln Way Garden Grove, CA 92841 USA

Phone: +1 714 895 5494

Email: Cecile.deGuia@eurofinset.com Website: www.eurofinsUS.com/Calscience

Please note our adjusted schedule for Labor Day

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

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required tim and Caruno EDDs. Perform Since Set Leanup - U.S. (Report to: laina.cole@cardno.com, robert.thompson@cardno.com	dno.com, robert.tl	evedureur ann ann cardin c.D.bs. : Perform since der Creamup - 0.5 gams. Group results by sample, not by analysis method. Report to: laina-cole@cardno.com, robert.thompson@cardno.com All units in ug/L.	s. Group results o	y sample, no	r by analy	sis method.	ss HqT			
Report to: laina.cole@car.	dno.com, robert.tl	Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com	cameron.penner-ash	sh@cardno.	mo:	NO. OF CONT	×O-			
LAB: SAMPLE ID	0 3	Field Point Name	SAMPLI	NG	MAT-	5	mohe HqTWI HqTWI			
C8 S-2 5- 171			8/ 6/2021	1880	v.	4	本		2 Sodium Bisulfate VOAs. 1 Methanol VOA. one 492 un-preserved glass iar	CONTAINER ITE
59 S-5- DI		10	8/9 /2021	1555	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass lar
60 S-7 5- D1		27	8/9/12021	1600	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar
6/ S-10- Di		14	8/9/12021	1605	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar
_7		14	דס	1610	S	4	}		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar
			1383		æ	×4m			# 1	nz un-prederved-glass jar.,
			B 19634		م	4				as un-prestryed glass far
			1000		69	4			2 Sodium Bloufate VOAs, 1 Methanol VOA, one destrumpreserved glass jar	of the preserved glase jar
		***************************************	7020		,	4			2 Securitate VOAs 1 Methano VOA con 402 unipreserved glass.jar.	DZ-INPPROGRAGIESS, B.F.
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8			1000		2 464			ľ	Section disturbs (On Thinns) (On one transported plans in	Trumpressured class iar
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9			1		-07	\ <u>*</u>			Soutant Bisultate VOXs; 1 Mohand VOA, one dos un preserved glass jar.	as un-preserved glass jar,
8			12021		-00	24			2-Socialin Disultate VOAs, 4 Methanet VOA, one 4	of VOA, one for unphesoned glass jar
9 7 8			-8/ (2021		307	.# .			Cadigan osunara VOAs, 1 Methand VOA; one tozun-preserved glass jar	omen-procented-glacs.jgr
t to			1202/ 78		0)	. #-			SSoundin bisunate VOAS; Limetharion VOA; one for our preserved glass fak	oz ur preserved glassjak.
			12021		9	•			2 Bodium Bioufate VOAs; Timemand VOA; one 402 unphoonved glass jag	oz urspreserved glass jag
1			138		5	4				os um prescrived glassys.
6			12067		69	4			Z-commentation (Orbar 1 Methanol VOA; one 4	Thethinn YOK; one for an preserved glacejaj:
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eurofins eurofins		7440 LINCOLN WAY			Site	Site Name		*101710	Everett Bulk Plant	CHAIN OF CUSTODY RECORD	
:	Calscience	Calscience GARDEN GROVE, CA 92841-1432	841-1432		Provide MI	le MRN for retail		E for m	or AFE for major projects	DATE 8/ <i>Ip</i> /2021	-
	-	TEL. (714) 895-5494 . FAX: (714) 894-7501	X: (714) 894-750		Retail	Retail Project (MRN) Major Project (AFE)				PAGE 5 OF 9	
ExxonMobil Engr		Jennifer Sedlachek			Projec	Project Name	######################################		ExpoMobil ADC / 0344476040		
LABORATORY CLIENT: Cardno							GLOBAL ID #/ COELT LOG CODE	COELT LOG	:ODE:	P O 0314476040 Agreement# A2604415	
ADDRESS: 309 South Cloverdale Street Unit A13	verdale Street	Unit A13					PROJECT CONTACT	NTACT			
Seattle, WA 98108	108						Robert	Robert Thompson	son		
TE 206-510-5855	5855	N/A	robei	robert.thompson@cardno.	n@car	dno.com	SAMPLER(S)	raul Fr	SAMPLER(S): Faul Frevou, John Considine	Os Harana Antonio Anto	*******
TURNAROUND TIME	☐24 HR	☐48 HR ☐72 HR	☐ 5 DAYS	☑ 10 DAYS	AYS				REQUES	REQUESTED ANALYSIS	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) RWQCB REPORTING	S (ADDITIONAL COSTS)	MAY APPLY) ARCHIVE SAMPLES UNTIL	TIL					pue (i			
SPECIAL INSTRUCTIONS:	o EDDe Dorform o	SPECIAL INSTRUCTIONS Benined FIN and Carden FIDE Bordon Filtre Cal Cleans Of Second Contract				100		Diese			************
nequirer c.im and varion c.b.b.s. renorm sinca cen cleanup - 0.5; Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in ugf.	ardno.com, robert.th	nica cel cleanup - 0.5 grami 1ompson@cardno.com	s. Group resuits a	y sample, no	roy analy:	iis method.	ss H9T	ss HqT :			
Report to: Ialna colege	ardno.com, robert.ti	Keport to: talna.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com	cameron.penner-ash(sh@cardno.r	E C	NO. OF CONT	×9-I				simulaba
USE SAM	SAMPLEID	Field Point Name	DATE	TIME	MAT.			19TWV D 10foW		CONTAINER TYPE	***************************************
63 8-2.5- 643	۲	かか	8/fD/2021	57.45	s	4	⊬	ı'x	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	Ī
64 S-5- GB		a2	8/ (0/2021	0350	S	4	-	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	T
S-7 5-	,	80	8/6/2021	SSC	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
S-10- (~	ゆみ	8/ (0/2021	550	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
67 S-12 5- (1) B	4	89	8/10/2021	2000	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
S-2 5-		<u>53</u>	8/10/2021	288	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
67 S-5-62		63	8/ @/2021	0180	S	4	1		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
			8/1001/2	1	\$	1		·	2-Cedius Deulfare VO. fe, 4 Mathemal VOO. nor 402 m.	c duz m. preseived grave jar	
2 S-10- 7		5	8/ /0/2021	5/80	S	4	1	**********	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
S-12 5-	۹ :	7	8/10/2021	086	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
		÷ ;	8/10/2021	38	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
10-0		7 7 7	0/ 10/2021	2 2	٥	4		obses 6.6	iz Sodium bisuitate VOAs, 1 Methanol VOA, one 40z un-preserved glass jar	e 40z un-preserved glass jar	
74 9-75		124	8//0/2021	56.65	S o	4 4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
20 5.10 5. 0.1		7 3	7	300	20	r	Ŧ	12.00	2 Sodium Bisuifate VOAs 1 Methand VOA, one 402 uir pieserved glass ja	a voz. uriprosa valgiasa jai 8 Aov. improsantad place jar	
27 S-25- FG		25	_	12.00	S	4	-		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass iar	
28S-5- F5		2,2	8/10/2021	250	s	4	-	2000	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
79 S-75- FF		FS	8/10/2021	0925	S	4		Perm	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
80 S-10- FF		FS	8/10/2021	0630	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
8/ S-125-FF		FS	8//0/2021	242	S	4	≥		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
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MULTIPLE	Sprice !	multiple duplicate samples in	IN COOLERS	But	M(55/NG	DG FROM COC	2	P. SAAS.	ADD TO COL UPON RECEIVE	RECEIPT OF CABORATORY, SAME ANALYSES,	
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eurofins euro		7440 LINCOLN WAY			Site	Name		Everett Bulk Plant	CHAIN OF CUSTODY RECORD	
•		Calscience GARDEN GROVE, CA 92841-1432	41-1432		Provi	Provida MRN for atal	(2) [2] (2] (2]	alinomenenninninninninninninninninninninninnin	<b>DATE</b> 8/ <b>10</b> /2021	
		TEL: (714) 896-5494 . FAX: (714) 894-7601	: (714) 894-7501		Retail Major	Retail Project (MRN) Major Project (AFE)			PAGE 6 OF 8	
				<i>y </i>				REGERENTER BETTER GERBERGER GERBERGER GERBERGER GERBERGER GERBERGER GERBERGER GERBERGER GERBERGER GERBERGER GE		
Exxonivioni Engr		Jennifer Sedlachek			770Je	:t Name		ExxonMobil ADC / 0314476040		
LABORATORY CLIENT:  Cardno							GLOBAL ID # COELT LOG CODE	CODE:	P O 0314476040 Agreement# A2604415	
ADDRESS: 309 South Cloverdale Street Unit A13	werdale Str	reet Unit A13					PROJECT CONTACT:			**************************************
Seattle, WA 98108	8108						Robert Thompson	Son	COURTE OFFICE	
™ 206-510-5855	-5855	N/A	rober	robert.thompson@c	on@ca	ardno.com	SAMPLER(S): FAUI F	SAMPLER(S): Maul Prevou, John Considine	Gooden Action 7 Temp ≈ 3°C.	
SAME DAY	74 H	☐48 HR ☐72 HR	5 DAYS	✓ 10 DAYS				REQUES	REQUESTED ANALYSIS	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY RWQCB REPORTING	'S (ADDITIONAL CO	OSTS MAY APPLY)  ARCHIVE SAMPLES UNTIL	п/							
SPECIAL INSTRUCTIONS Required EIM and Card	no EDDs. Perfo	SPECIAL INSTRUCTIONS. Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0,5 grams. Group results by sample, not by an	Group results by	sample, no		livsis method.	s Gaso			
Report to: laina.cole@c All units in ug/L Benort to: laina cole@c	ardno.com, rob	Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in ugl. Bonort to: lains relations and such the theory and and an an and an an and an an and an					OSM/S			
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USE	SAMPLEID	Field Point Name	DATE	TIME	R A				CONTAINER TYPE	
			8/11/2021	03/50	S	4	$\langle \rangle$	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	Ī
83 8-5- 66		95		300	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
84 8-75-66		95		350	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
85 S-10- (70		42.5	8/10/2021 8/10/2021	3000	S) W	4 4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one-4oz un-preserved glass jar 2 Sodium Bisulfate VOAs, 1 Methanol VOA, one-4oz un-preserved plass lar	e 4oz un-preserved glass jar e 4oz un-preserved class iar	
	5	50		200	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
	7	F7	1	Sici	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
		9	8/10/2021	305	S	4		2 Sodium Bisulfate VOAs, 1: Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
		Çā	8/10 /2021	220	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
74 -9-17:3- 16		6		225	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
93 8-5- 68		××;	8/102/1	र्भुट व	၈ ဖ	4 4		Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass fat     Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar e 4oz un-preserved glass jar	
84 S-1 2-6 16		(5%	1	Jack	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
S-10-		63	8/ys /2021	05ct	S	4	3	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
S-12.5-	200	×5.	8/10/2021	330	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
98 S.S.	24.7	800	8/13/2021	120	0 0	4 4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 402 un-preserved glass Jar 2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 402 un-preserved class far	e 4oz un-preserved glass jar e 4oz un-preserved class iar	
S-7 5-	*	Da	8/lv /2021	SCI	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
62 -01-S201		F 4	8/ <b>p</b> 0/2021	222.00	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
10/ S-12 5- F9			8/10/2021		S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
102 5-2-5-	63		3/10/2021	11.15	7	5	> >	" "		
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							CHAIN OF COSTONY RECORD
Calscien	Calscience GARDEN GROVE, CA 92841-1432	2841-1432		Provide MRN for retail or AFE for major projects	iali or 4FE fo	r major projects	DATE: 8/10/2021
	TEL: (714) 896-5494 . FAX. (714) 894-7501	XX. (714) 894-7501	œ	etail Project (MRN	)		PAGE: 7 OF 8
			≥	ajor Project (AFE			
ExxonMobil Engr	Jennifer Sedlachek		<u>a</u>	Project Name		ExxonMobil ADC / 0314476040	
LABORATORY CLIENT: Cardno					GLOBALID# COELT LOG CODE	LOG CODE;	P O 0314476040 Agreement# A2604415
ADDRESS: 309 South Cloverdale Street Unit A13	eet Unit A13				PROJECT CONTACT		177
Seattle, WA 98108					Robert Thompson	Robert Thompson	
751 206-510-5855	N/A	robert.th	ompson	robert.thompson@cardno.com	SAMPLER(S): TAU	rrevou, Jonn Considine	occurent sectored Temp ≠
SAME DAY 24 HR	☐48 HR ☐72 HR	5 DAYS	✓ 10 DAYS	S		REC	REQUESTED ANALYSIS
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWQCB REPORTING  ARCHI	SSTS MAY APPLY)  ARCHIVE SAMPLES UNTIL	//ITIN					
SPECIAL INSTRUCTIONS:							
Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in ug/L.	rm Silica Gel Cleanup - 0.5 gram ert.thompson@cardno.com	ns. Group results by sample, not by a	nple, not by	analysis method.	GSM) 5 8 H9T - 3 8 H9T -		
to: laina.co	art.thompson@cardno.com, and	d cameron.penner-ash@cardno.com	cardno.con	NO. OF CONT	H-Gx		
USE SAMPLE ID	Field Point Name	DATE 1	TIME	MAI- RIX			CONTAINER TYPE
	2.8		Shi	S 4	XX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
	ŢĶ	1		S 4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
105 8-7.5-7	28		4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
10.6 S-10- [8	1.4		_			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
100 S-12 S-1 A	0 10	0/10/2021	+			2 Sodium bisuirate VOAs, 1 Methanol VOA, one 402 un-preserved glass jar	V.C.A. one 40z un-preserved glass jar
109S-5- 1-7	35	Τ-		4 4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 40z un-preserved glass jar VOA, one 40z un-preserved glass jar
1108-7.5-137	12	+-	╁		-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
111 S-10- N7	ÇH				-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
11. S-12.5-H7	1,7	8/19/2021 12	$\dashv$			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
S-2.5-	17.6		23.	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
~ા	9.6		+			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
01-01-011	16		+			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
	7	8/19 /2021	25.5	0 (Š		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 402 un-preserved glass jar	VOA, one 40z un-preserved glass jar VOA, one 40z un-preserved glass iar
11 g/S-2 5-, 17	50	7 170 270	T			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
11 <b>4</b> S-5- 37	7ر	8/10 /2021 1310				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un preserved glass jar
$\sim$	37	1777		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
(4 S-10-)?	72		$\dashv$	S 4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	VOA, one 4oz un-preserved glass jar
S-12 5-7	7,	8/3/2021 1325	十	_		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
94.2.4.20	.s	1000	╫	Z	* * -	2 Scaller BUBlithe VARS	Methods 1004, one 432 with procedure jar
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	Calscience GARDEN GROVE, CA 92841-1432	41-1432		Provide MRN for refa	all or	AFE for major projects	
	(1.1) con-creat (1.1)	1001-100(11)		Major Project (AFE)	(2) (3) (3)	THE REPORT OF THE PROPERTY OF	PAGE: UT OT
ExxonMobil Engr	Jennifer Sedlachek		<u> </u>	Project Name	_	ExxonMobil ADC / 0314476040	
LABORATORY CLIENT:  Cardno					GLOBAL ID #/ COELT LOG CODE	s cobe:	P O 0314476040 Agreemen# A2604415
Address: 309 South Cloverdale Street Unit A13	et Unit A13				PROJECT CONTACT		
Seattle. WA 98108					Robert Thompson	pson	TOTAL SEE SECTION
TEI 206-510-5855	N/A	robert.tho	osduc	robert.thompson@cardno.com	SAMPLER(S): FAUL F	SAMPLER(S): Faul Frevou, John Considine	ocourse acourse Témp ≈ Têmp
SAME DAY 24 HR	☐48 HR ☐72 HR	S DAYS	☑ 10 DAYS	YS		REQUEST	REQUESTED ANALYSIS
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWQCB REPORTING  ARCHI	TS MAY APPLY)  ARCHIVE SAMPLES UNTIL	11.					
SPECIAL INSTRUCTIONS: Remained FIN and Cardin FINE Derform Silies 5al Classiun. A furame. Groun results hu samula not hu analusis masted	Silica Gal Clasmin . O Summe	Group results hy sam	ala taga	in the state of the state of			
Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in ug/L.	t.thompson@cardno.com	oroup resums by sam	pie, nor	y analysis memod.	es HqT		
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com	t.thompson@cardno.com, and c	ameron.penner-ash@c	ardno.co	m NO. OF CONT	l-Gx		
JAB SAMPLE ID JUSE ONLY	Field Point Name	DATE	7	MAT-	mohaq qqtwy qqtwy qqtwy D totoM		CONTAINER TYPE
124 S-2.5-(15	1/5	8/13/2021 13	335	8	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
125 S-5- VS	35	H	5		-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
_	zŞ.	8/10/2021 1345	×,			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
127 S-10- 15	32	8/w /2021 17	24	S S		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4cz un-preserved glass jar 2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4cz un-preserved class iar	4oz un-preserved glass jar 4oz un-preserved glass jar
129 S-25-HS	Sa Sa	8/10/2021	אַנ			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	40z un-preserved glass jar
110 S-5- HS	HS		L_			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
(3/ 8-7.5-1)5	145	_	2			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
132 S-10- H5	25	+	ν̈́			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
15 S-12.3-75	4	8/2021	70,1	4 4	**************************************	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar	402 un-presenved glass jar
S-5-		8/ /2021	1			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	40z un-preserved glass jar
S-7 5-		1 1				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
S-10-						2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
S-12.5-		- 1	1			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
5-2 3-		8/ /2021		2 V		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar 2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved class iar	4oz un-preserved glass jar 4oz un-preserved glass jar
S-7 5-	West desiration of the second	1	1			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
S-10-		1 1				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar
S-12.5-				S 4	,	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	, i
134 5-145-45	TS.	Schi licer/21/8	8	3	X	2 solum bisutute V	VOGS I Methans 1941 ) Margore Bring Jur
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EQB1	EQB1	8/ /2021		S			
Relinquished by (Signature)	J. J.			Received by (Signature)			Date, & Time
Relinquished by (Signature)				Received by: (Signature)	11 41	<i>b</i>	1 ~
Relinqui@@@@@@akkaka@OIL COC 210809 to 210813_use me	3809 to 210813_use me		Ť	Received by (Signature)			

THU — 12 AUG 10: Priority overnig NSR A CA-US SNA 101 211 THU - 12 AUG'10:30 Fed Ex IRK# 8158 1729 7787 **92 APVA** 92 APVA -92 APVA Fedex 1729 7765 1729 7765 JSTODY SE Fed Ex TRK# 8135 3322 8223

FedEx TRK# 8158 1729 7776

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ORIGIN ID:BBEA (817) 965-6081 PAUL PREVOU CARDNO 309 S CLOVERDALE ST

SEATTLE, WA 98108 UNITED STATES US TO

92 APVA

CALSCIENCE ENV LAB 7440 LINCOLN WAY

GARDEN GROVE CA 92841

SEA

928 CA-US



Ma

www.essvial.com 800-233-8425

TRK# 8106 8478 7356 ## MASTER ##

1 of 2

CUSTODY

560J1/BAF3/FE48





sr 13.

Client: Cardno, Inc

Job Number: 570-66942-1

Login Number: 66942 List Source: Eurofins Calscience LLC

List Number: 1 Creator: Cruise, Noel

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-66884-1

Client Project/Site: ExxonMobil ADC / 0314476040

Revision: 1

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Sonia

Authorized for release by: 8/26/2021 3:16:03 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS .....

Review your project results through

Total Access

**Have a Question?** 



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# **Sample Summary**

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-66884-1	S-2.5-B1	Solid	08/11/21 13:10	08/12/21 10:50
570-66884-2	S-5-B1	Solid	08/11/21 13:15	08/12/21 10:50
570-66884-3	S-7.5-B1	Solid	08/11/21 13:20	08/12/21 10:50
570-66884-4	S-10-B1	Solid	08/11/21 13:25	08/12/21 10:50
570-66884-5	S-12.5-B1	Solid	08/11/21 13:30	08/12/21 10:50
570-66884-6	S-2.5-A2	Solid	08/11/21 13:50	08/12/21 10:50
570-66884-7	S-5-A2	Solid	08/11/21 13:55	08/12/21 10:50
570-66884-8	S-7.5-A2	Solid	08/11/21 14:00	08/12/21 10:50
570-66884-9	S-10-A2	Solid	08/11/21 14:05	08/12/21 10:50
570-66884-10	S-12.5-A2	Solid	08/11/21 14:10	08/12/21 10:50
570-66884-11	S-2.5-A4	Solid	08/11/21 14:20	08/12/21 10:50
570-66884-12	S-5-A4	Solid	08/11/21 14:25	08/12/21 10:50
570-66884-13	S-10-A4	Solid	08/11/21 14:30	08/12/21 10:50
570-66884-14	S-12.5-A4	Solid	08/11/21 14:35	08/12/21 10:50
570-66884-15	S-14.5-A2	Solid	08/11/21 14:15	08/12/21 10:50

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# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

# Glossarv

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Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
_OD	Limit of Detection (DoD/DOE)
_OQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

MPN Most Probable Number MQL Method Quantitation Limit NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL **Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

Relative Error Ratio (Radiochemistry) RER

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

### Case Narrative

Client: Cardno, Inc

Job ID: 570-66884-1 Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66884-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-66884-1

### Comments

No additional comments.

### Revision

The report being provided is a revision of the original report sent on 08/26/2021. The report (Revision 1) is being revised due to: Client required sample results group by sample and not by analysis method.

The samples were received on 8/12/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

### **Receipt Exceptions**

The following sample was received at the laboratory without a sample collection time documented on the chain of custody: S-14.5-A2 (570-66884-15). Collection time is14:15 per label. Email confirmation is attached.

### **GC VOA**

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173725. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173685. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173959. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173726. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

lient Sample ID: S-2.5-B1					Lab Sample ID: 5	70-66884-1
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	6.0		5.4	mg/Kg	1 🌣 NWTPH-Dx	Silica Gel
_						Cleanup
Client Sample ID: S-5-B1					Lab Sample ID: 5	70-66884-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	56		28	mg/Kg	250 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	6300		59	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	1600		59	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-B1					Lab Sample ID: 5	70-66884-3
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	5.4		0.23	mg/Kg	1 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	20		6.2	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	17		6.2	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-B1					Lab Sample ID: 5	70-66884-4
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.42		0.13	mg/Kg	1   □ NWTPH-Gx	Total/NA
Client Sample ID: S-12.5-B1					Lab Sample ID: 5	70-66884-5
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.28		0.21	mg/Kg	1 ☆ NWTPH-Gx	Total/NA
Client Sample ID: S-2.5-A2					Lab Sample ID: 5	70-66884-6

No Detections.

Client Sample ID: S-5-A2

Result Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
250	110	mg/Kg	500	NWTPH-Gx	Total/NA
340	6.4	mg/Kg	1 -3	∴ NWTPH-Dx	Silica Gel Cleanup
45	6.4	mg/Kg	1 ∃	⇔ NWTPH-Dx	Silica Gel Cleanup
	250 340	250 110 340 6.4	250 110 mg/Kg 340 6.4 mg/Kg	250 110 mg/Kg 500 340 6.4 mg/Kg 1	250 110 mg/Kg 500 × NWTPH-Gx 340 6.4 mg/Kg 1 × NWTPH-Dx

Client Sample ID: S-7.5-A2	
----------------------------	--

Analyte	Result Q	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	520		24	mg/Kg	100	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	7400		60	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	650		60	mg/Kg	10	☼	NWTPH-Dx	Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	Dil Fac	) Method	Prep Type
TPH as Gasoline (C4-C13)	76	22	mg/Kg	100	NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

**Eurofins Calscience LLC** 

8/26/2021 (Rev. 1)

Lab Sample ID: 570-66884-7

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-A	A2 (Continu	ed)			Lab Sa	mple ID: 5	70-66884-9
Analyte		Qualifier	RL	Unit	Dil Fac D		Prep Type
TPH as Diesel Range	260		5.9	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	44		5.9	mg/Kg	1 ☆	NWTPH-Dx	Cleanup Silica Gel
				99			Cleanup
Client Sample ID: S-12.5	5-A2				Lab San	ple ID: 57	0-66884-10
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	570		140	mg/Kg	1000 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range	11000		64	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2200		64	mg/Kg	10 ❖	NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-2.5-	A4				Lab San	nple ID: 57	0-66884-11
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range	110		5.5	mg/Kg		NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-5-A	4				Lab Sam	ple ID: 57	0-66884-12
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	300		16	mg/Kg	50 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range	8700		72	mg/Kg	10 ❖	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	1500		72	mg/Kg	10 ☆	NWTPH-Dx	Cleanup Silica Gel
11 11 as Motor Oil Nange	1300		12	mg/rtg	10 14	NWII II-DX	Cleanup
Client Sample ID: S-10-A	\ <b>4</b>				Lab Sam	nple ID: 57	0-66884-13
	D 14	0 110	D:	1124		_	
Analyte TPH as Gasoline (C4-C13)	<b>Result</b> 72	Qualifier	RL 29	<mark>Unit</mark> mg/Kg	Dil Fac D	NWTPH-Gx	Total/NA
TPH as Diesel Range	270		6.2	mg/Kg		NWTPH-Dx	Silica Gel
Trad Bleder Range	210		0.2	mg/rtg	1 74	IIII DX	Cleanup
TPH as Motor Oil Range	74		6.2	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel
L							Cleanup
Client Sample ID: S-12.5	5-A4				Lab San	nple ID: 57	0-66884-14
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.42		0.38	mg/Kg		NWTPH-Gx	Total/NA
Client Sample ID: S-14.5	5-A2				Lab San	ple ID: 57	0-66884-15
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range	11		6.3	mg/Kg		NWTPH-Dx	Silica Gel
							OI

This Detection Summary does not include radiochemical test results.

Cleanup

Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-B1

Lab Sample ID: 570-66884-1 Date Collected: 08/11/21 13:10 **Matrix: Solid** 

Date Received: 08/12/21 10:50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/K	g 🌣	08/13/21 13:54	08/24/21 05:36	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 69 50 - 150 08/13/21 13:54 08/24/21 05:36 4-Bromofluorobenzene (Surr)

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND	5.4	mg/Kg	₩	08/21/21 08:23	08/24/21 03:31	1
TPH as Motor Oil Range	6.0	5.4	mg/Kg	₩	08/21/21 08:23	08/24/21 03:31	1
Surragata	% Pagayary Qualifier	Limita			Branarad	Anglyzad	Dil Ess

Limits Surrogate %Recovery Qualifier Analyzed n-Octacosane (Surr) 99 50 - 150 08/21/21 08:23 08/24/21 03:31

Client Sample ID: S-5-B1 Lab Sample ID: 570-66884-2 Date Collected: 08/11/21 13:15 **Matrix: Solid** 

Date Received: 08/12/21 10:50

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	56	28	mg/Kg	₽	08/13/21 13:54	08/24/21 17:42	250

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 68 50 - 150 08/13/21 13:54 08/24/21 17:42 250

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6300	59	mg/Kg	<u></u>	08/21/21 08:23	08/25/21 11:43	10
TPH as Motor Oil Range	1600	59	mg/Kg	₩	08/21/21 08:23	08/25/21 11:43	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	126	50 - 150			08/21/21 08:23	08/25/21 11:43	10

Client Sample ID: S-7.5-B1 Lab Sample ID: 570-66884-3 **Matrix: Solid** 

Date Collected: 08/11/21 13:20

Date Received: 08/12/21 10:50

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	5.4		0.23	mg/Kg	<u></u>	08/13/21 13:54	08/24/21 06:00	1

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 08/13/21 13:54 08/24/21 06:00 4-Bromofluorobenzene (Surr) 86 50 - 150

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualitier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	20		6.2	mg/Kg	<del></del> <del></del>	08/21/21 08:23	08/24/21 04:15	1	
TPH as Motor Oil Range	17		6.2	mg/Kg	₩	08/21/21 08:23	08/24/21 04:15	1	
Surrogate	%Recovery	Qualifier	l imits			Prepared	Analyzed	Dil Fac	

08/21/21 08:23 08/24/21 04:15 n-Octacosane (Surr) 106 50 - 150

**Matrix: Solid** 

Client Sample ID: S-10-B1 Lab Sample ID: 570-66884-4

Date Collected: 08/11/21 13:25 Matrix: Solid

Date Received: 08/12/21 10:50

Client: Cardno, Inc

Method: NWTPH-Gx - Northwest -	Volatile Petroleum Pro	ducts (GC)
Δnalvto	Result Qualifier	RI

 Analyte
 Result TPH as Gasoline (C4-C13)
 Qualifier Qualifier RL 0.13
 RL mg/Kg
 Unit mg/Kg
 D mg/Kg
 Prepared 08/13/21 13:54
 Analyzed 08/24/21 07:11
 Dil Fac 08/24/21 07:11

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 50 - 150
 Limits 708/13/21 13:54
 Prepared 08/13/21 13:54
 Analyzed 08/24/21 07:11
 Dil Fac 08/13/21 13:54

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	. Unit D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	7.2	mg/Kg	08/21/21 08:23	08/24/21 04:36	1
TPH as Motor Oil Range	ND	7.2	mg/Kg ⇔	08/21/21 08:23	08/24/21 04:36	1
				_		

Client Sample ID: S-12.5-B1 Lab Sample ID: 570-66884-5

Date Collected: 08/11/21 13:30 Date Received: 08/12/21 10:50

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Method: MWTT 11-OX - Morthwe	St - Volatile	i eti oleui	ii i ioducis (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.28		0.21	mg/Kg	<del>-</del>	08/13/21 13:54	08/24/21 07:34	1

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 50 - 150
 Limits 708/13/21 13:54
 Prepared 708/13/21 13:54
 Analyzed 708/24/21 07:34
 Dil Fac 708/24/21

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

moundar restrict Extra rectange	• • • • • • • • • • • • • • • • • • • •		olouill i loui	, oto (00) omou o	•	- iouiiup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.1	mg/Kg	₩	08/21/21 08:23	08/24/21 04:57	1
TPH as Motor Oil Range	ND		6.1	mg/Kg	₩	08/21/21 08:23	08/24/21 04:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101		50 - 150			08/21/21 08:23	08/24/21 04:57	1

Client Sample ID: S-2.5-A2 Lab Sample ID: 570-66884-6

Date Collected: 08/11/21 13:50

Matrix: Solid

Date Received: 08/12/21 10:50

Method: NWTPH-Gx	- Northwest - Volatile	Petroleum	Products (G	C)	
Analyto	Pocult	Qualifier	DI	Unit	D

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 TPH as Gasoline (C4-C13)
 ND
 0.26
 mg/Kg
 \$\frac{1}{2}\$ 08/13/21 13:54
 08/24/21 07:58
 1

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 50 - 150
 Limits 708/13/21 13:54
 Prepared Prepared 08/13/21 13:54
 Analyzed 08/14/21 07:58
 Dil Fac 08/13/21 13:54

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.5	mg/Kg	₩	08/21/21 08:23	08/24/21 05:18	1
TPH as Motor Oil Range	ND		5.5	mg/Kg	≎	08/21/21 08:23	08/24/21 05:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 08/21/21 08:23
 08/24/21 05:18
 1

Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: 570-66884-7 **Client Sample ID: S-5-A2** 

Date Collected: 08/11/21 13:55 **Matrix: Solid** 

Date Received: 08/12/21 10:50

Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleur	n Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	250		110	mg/Kg	<u></u>	08/13/21 13:54	08/24/21 15:34	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150			08/13/21 13:54	08/24/21 15:34	500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	340		6.4	mg/Kg	₩	08/21/21 08:23	08/24/21 06:24	
TPH as Motor Oil Range	45		6.4	mg/Kg	₩	08/21/21 08:23	08/24/21 06:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			08/21/21 08:23	08/24/21 06:24	

Lab Sample ID: 570-66884-8 Client Sample ID: S-7.5-A2 **Matrix: Solid** 

Date Collected: 08/11/21 14:00

Date Received: 08/12/21 10:50

Method: NWTPH-Gx - North Analyte		Petroleur Qualifier	n Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier			_ =	Trepared	Allalyzea	Diriac
TPH as Gasoline (C4-C13)	520		24	mg/Kg	≎	08/13/21 13:54	08/24/21 02:08	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150			08/13/21 13:54	08/24/21 02:08	100

Method: NWTPH-Dx - Northwe	st - Semi-V	olatile Petr	oleum Prod	ducts (GC) - Silica G	el C	Cleanup - DL		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7400		60	mg/Kg	₩	08/21/21 08:23	08/25/21 12:04	10
TPH as Motor Oil Range	650		60	mg/Kg	₩	08/21/21 08:23	08/25/21 12:04	10
Surrogate n-Octacosane (Surr)	%Recovery 135	Qualifier	<b>Limits</b> 50 - 150			Prepared 08/21/21 08:23	Analyzed 08/25/21 12:04	Dil Fac

Lab Sample ID: 570-66884-9 Client Sample ID: S-10-A2 **Matrix: Solid** 

Date Collected: 08/11/21 14:05

Date Received: 08/12/21 10:50

M	lethod: NWTPH-Gx - North	nwest - Volatile	Petroleur	n Products (GC	)				
Aı	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TI	PH as Gasoline (C4-C13)	76		22	mg/Kg	☆	08/13/21 13:54	08/24/21 15:09	100
Sı	urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-	Bromofluorobenzene (Surr)	72		50 - 150			08/13/21 13:54	08/24/21 15:09	100
_			Qualifier						_Di

Method: NWTPH-Dx - North	thwest - Semi-Ve	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	260		5.9	mg/Kg	— <u></u>	08/21/21 08:23	08/24/21 07:06	1
TPH as Motor Oil Range	44		5.9	mg/Kg	₩	08/21/21 08:23	08/24/21 07:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		50 - 150			08/21/21 08:23	08/24/21 07:06	1

Client Sample ID: S-12.5-A2

Date Collected: 08/11/21 14:10 Date Received: 08/12/21 10:50 Lab Sample ID: 570-66884-10

**Matrix: Solid** 

Job ID: 570-66884-1

Method: NWTPH-Gx - North	west - Volatile	Petroleui	m Products (GC	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	570		140	mg/Kg	<del>*</del>	08/13/21 13:54	08/24/21 16:51	1000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150			08/13/21 13:54	08/24/21 16:51	1000

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	11000		64	mg/Kg	— <u></u>	08/21/21 08:23	08/25/21 12:26	10
TPH as Motor Oil Range	2200		64	mg/Kg	₩	08/21/21 08:23	08/25/21 12:26	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	140		50 - 150			08/21/21 08:23	08/25/21 12:26	10

Lab Sample ID: 570-66884-11 Client Sample ID: S-2.5-A4 Date Collected: 08/11/21 14:20

Date Received: 08/12/21 10:50

**Matrix: Solid** 

Method: NWTPH-Gx - North	west - Volatile	Petroleui	n Products (G	iC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.24	mg/Kg	₩	08/13/21 13:54	08/24/21 08:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		50 - 150			08/13/21 13:54	08/24/21 08:45	1

Method: NWTPH-Dx - North	nwest - Semi-V	olatile Pet	roleum Produ	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.5	mg/Kg	<u></u>	08/21/21 08:23	08/24/21 07:49	1
TPH as Motor Oil Range	110		5.5	mg/Kg	₩	08/21/21 08:23	08/24/21 07:49	1
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/21/21 08:23	Analyzed 08/24/21 07:49	Dil Fac

Client Sample ID: S-5-A4 Lab Sample ID: 570-66884-12

Date Collected: 08/11/21 14:25 Date Received: 08/12/21 10:50

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result 300	Qualifier	RL 16	Unit mg/Kg	_ <del>D</del>	Prepared 08/13/21 13:54	Analyzed 08/24/21 14:43	Dil Fac 50
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/13/21 13:54	Analyzed 08/24/21 14:43	Dil Fac

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Pe	troleum Produc	ts (GC) - Silica	Gel	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	8700	72	mg/Kg	₽	08/21/21 08:23	08/25/21 12:48	10
TPH as Motor Oil Range	1500	72	mg/Kg	≎	08/21/21 08:23	08/25/21 12:48	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	143	50 - 150			08/21/21 08:23	08/25/21 12:48	10

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-A4

Lab Sample ID: 570-66884-13

Date Received: 08/12/21 10:50

Date Collected: 08/11/21 14:30 Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Result Qualifier Unit D Analyte Prepared Analyzed Dil Fac 29 08/13/21 13:54 08/24/21 17:17 TPH as Gasoline (C4-C13) mg/Kg 250 **72** 

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 08/13/21 13:54 08/24/21 17:17 90 250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 270 6.2 mg/Kg 08/21/21 08:23 08/24/21 08:31 6.2 mg/Kg 08/21/21 08:23 08/24/21 08:31 **TPH as Motor Oil Range** 74

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 50 - 150 08/21/21 08:23 08/24/21 08:31 n-Octacosane (Surr) 103

Client Sample ID: S-12.5-A4

Lab Sample ID: 570-66884-14 Date Collected: 08/11/21 14:35 **Matrix: Solid** 

Date Received: 08/12/21 10:50

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Dil Fac TPH as Gasoline (C4-C13) 0.42 0.38 mg/Kg 08/13/21 13:54 08/24/21 17:14

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 80 50 - 150 08/13/21 13:54 08/24/21 17:14

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 7.8 mg/Kg 08/21/21 08:23 08/24/21 08:52 TPH as Motor Oil Range ND 7.8 mg/Kg 08/21/21 08:23 08/24/21 08:52 Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 111 50 - 150 08/21/21 08:23 08/24/21 08:52

Client Sample ID: S-14.5-A2 Lab Sample ID: 570-66884-15

Date Collected: 08/11/21 14:15

Date Received: 08/12/21 10:50

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.13 mg/Kg 08/13/21 13:54 08/24/21 09:55

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 08/13/21 13:54 08/24/21 09:55 4-Bromofluorobenzene (Surr) 92 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 6.3 mg/Kg 08/21/21 08:23 08/24/21 09:15 6.3 08/21/21 08:23 08/24/21 09:15 **TPH as Motor Oil Range** 11 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/21/21 08:23 08/24/21 09:15 103

Matrix: Solid

Job ID: 570-66884-1

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Solid Prep Type: Total/NA** 

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-66884-1	S-2.5-B1	69	
570-66884-2	S-5-B1	68	
570-66884-3	S-7.5-B1	86	
570-66884-4	S-10-B1	61	
570-66884-5	S-12.5-B1	84	
570-66884-6	S-2.5-A2	83	
570-66884-7	S-5-A2	77	
570-66884-8	S-7.5-A2	92	
570-66884-9	S-10-A2	72	
570-66884-10	S-12.5-A2	73	
570-66884-11	S-2.5-A4	100	
570-66884-12	S-5-A4	111	
570-66884-13	S-10-A4	90	
570-66884-14	S-12.5-A4	80	
570-66884-15	S-14.5-A2	92	
LCS 570-173685/37	Lab Control Sample	98	
LCS 570-173725/15	Lab Control Sample	91	
LCS 570-173726/46	Lab Control Sample	69	
LCS 570-173959/3	Lab Control Sample	112	
LCSD 570-173685/38	Lab Control Sample Dup	106	
LCSD 570-173725/16	Lab Control Sample Dup	91	
LCSD 570-173726/47	Lab Control Sample Dup	93	
LCSD 570-173959/4	Lab Control Sample Dup	91	
MB 570-173685/39	Method Blank	67	
MB 570-173725/18	Method Blank	82	
MD 570 470700/40	Method Blank	70	
MB 570-173726/49	Method Blank	77	

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid **Prep Type: Silica Gel Cleanup** 

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	OTCSN	
		(50-150)	
570-66884-1	S-2.5-B1	99	
570-66884-1 MS	S-2.5-B1	102	
570-66884-1 MS	S-2.5-B1	103	
570-66884-1 MSD	S-2.5-B1	104	
570-66884-1 MSD	S-2.5-B1	105	
570-66884-2 - DL	S-5-B1	126	
570-66884-3	S-7.5-B1	106	
570-66884-4	S-10-B1	113	
570-66884-5	S-12.5-B1	101	
570-66884-6	S-2.5-A2	106	
570-66884-7	S-5-A2	107	
570-66884-8 - DL	S-7.5-A2	135	
570-66884-9	S-10-A2	115	

**Eurofins Calscience LLC** 

# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Prep Type: Silica Gel Cleanup **Matrix: Solid** 

		Percent Surrogate Recovery (Acceptance Limits)	
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-66884-10	S-12.5-A2	140	
570-66884-11	S-2.5-A4	107	
570-66884-12	S-5-A4	143	
570-66884-13	S-10-A4	103	
570-66884-14	S-12.5-A4	111	
570-66884-15	S-14.5-A2	103	
LCS 570-173318/21-A	Lab Control Sample	107	
LCS 570-173318/2-A	Lab Control Sample	102	
LCSD 570-173318/22-A	Lab Control Sample Dup	99	
LCSD 570-173318/3-A	Lab Control Sample Dup	102	
MB 570-173318/1-A	Method Blank	114	
Surrogate Legend			

**Eurofins Calscience LLC** 

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66884-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-173685/39 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 173685** 

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 08/24/21 01:18

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 67 50 - 150 08/24/21 01:18

Lab Sample ID: LCS 570-173685/37 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 173685

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.13 1.786 mg/Kg 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 98

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-173685/38 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 173685** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) mg/Kg 2.13 1.809 85 77 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 106 50 - 150

Lab Sample ID: MB 570-173725/18

**Matrix: Solid** 

**Prep Type: Total/NA Analysis Batch: 173725** MB MB

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 5.0 08/23/21 19:16 mg/Kg

MB MB Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/23/21 19:16 82

Lab Sample ID: LCS 570-173725/15

**Matrix: Solid** 

**Analysis Batch: 173725** 

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec 2.12 77 - 128 TPH as Gasoline (C4-C13) 2.130 mg/Kg 100

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 91

Eurofins Calscience LLC

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: LCSD 570-173725/16

Job ID: 570-66884-1

08/24/21 14:18

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 173725** 

Prep Type: Total/NA

RPD Spike LCSD LCSD %Rec. Added Result Qualifier Unit %Rec Limits RPD Limit Analyte TPH as Gasoline (C4-C13) 2.11 2.103 mg/Kg 100 77 - 128 16

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: MB 570-173726/49 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 173726** 

TPH as Gasoline (C4-C13)

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac

5.0

mg/Kg

ND MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 50 - 150 08/24/21 14:18

**Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 570-173726/46 **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 173726** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) mg/Kg 2.11 1.810 77 - 128

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 69 50 - 150

Lab Sample ID: LCSD 570-173726/47 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 173726** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Gasoline (C4-C13) 2.12 1.766 83 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 93

Client Sample ID: Method Blank Lab Sample ID: MB 570-173959/5

**Matrix: Solid** 

**Analysis Batch: 173959** 

MB MB Result Qualifier RL Analyte Unit D Prepared Analyzed Dil Fac 0.25 TPH as Gasoline (C4-C13) ND mg/Kg 08/24/21 14:37

MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 50 - 150 08/24/21 14:37 4-Bromofluorobenzene (Surr) 77

**Prep Type: Total/NA** 

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-173959/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 173959** 

Spike LCS LCS %Rec. Result Qualifier Added Limits Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.10 1.946 mg/Kg 93 77 - 128

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 112 50 - 150

Lab Sample ID: LCSD 570-173959/4 Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 173959** 

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit TPH as Gasoline (C4-C13) 2.12 1.967 93 77 - 128 mg/Kg

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-173318/1-A

**Matrix: Solid** 

**Analysis Batch: 173736** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 173318** 

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range 5.0 mg/Kg 08/21/21 08:23 08/24/21 00:17 ND TPH as Motor Oil Range ND 5.0 mg/Kg 08/21/21 08:23 08/24/21 00:17

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 114 50 - 150 08/21/21 08:23 08/24/21 00:17

Lab Sample ID: LCS 570-173318/21-A

**Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 173736 Prep Batch: 173318** 

Spike LCS LCS %Rec. Added Result Qualifier Unit Limits %Rec TPH as Motor Oil (C17-C44) 400 404.9 101 71 - 139 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 107 50 - 150

Lab Sample ID: LCS 570-173318/2-A

**Matrix: Solid** 

**Analysis Batch: 173736** 

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup

**Prep Batch: 173318** 

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 406.2 76 - 126 mg/Kg 102

LCS LCS

Limits Surrogate %Recovery Qualifier n-Octacosane (Surr) 50 - 150 102

Eurofins Calscience LLC

Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

Client: Cardno, Inc

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570-173318/22-A	Client Sample ID: Lab Control Sample Dup
Matrix: Solid	Prep Type: Silica Gel Cleanup
Analysis Batch: 173736	Prep Batch: 173318

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier %Rec Limits RPD Limit Analyte Unit TPH as Motor Oil (C17-C44) 400 391.3 mg/Kg 98 71 - 139 3 20

LCSD LCSD %Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173318/3-A **Matrix: Solid** Prep Type: Silica Gel Cleanup Analysis Batch: 173736 **Prep Batch: 173318** LCSD LCSD RPD Spike %Rec.

Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 400 435.9 mg/Kg 109 76 - 126

LCSD LCSD Surrogate %Recovery Qualifier Limits 50 - 150 n-Octacosane (Surr) 102

Client Sample ID: S-2.5-B1 Lab Sample ID: 570-66884-1 MS **Matrix: Solid** Prep Type: Silica Gel Cleanup

**Analysis Batch: 173736 Prep Batch: 173318** 

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) ND 429 439.3 mg/Kg 102 37 - 175

MS MS Qualifier Limits Surrogate %Recovery n-Octacosane (Surr) 102 50 - 150

Lab Sample ID: 570-66884-1 MS Client Sample ID: S-2.5-B1 **Matrix: Solid** Prep Type: Silica Gel Cleanup

**Analysis Batch: 173736 Prep Batch: 173318** Sample Sample Spike MS MS %Rec.

Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec TPH as Motor Oil (C17-C44) ND 430 436.6 99 71 - 174 mg/Kg

MS MS %Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 103

Client Sample ID: S-2.5-B1 Lab Sample ID: 570-66884-1 MSD **Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 173736 Prep Batch: 173318** 

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier babb∆ Result Qualifier Unit D Limits RPD Limit Analyte %Rec 37 - 175 TPH as Diesel (C10-C28) ND 431 488.5 mg/Kg 113 20

MSD MSD Surrogate %Recovery Qualifier Limits 50 - 150 n-Octacosane (Surr) 104

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8/26/2021 (Rev. 1)

### **QC Sample Results**

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Lab Sample ID: 570-66884-1 MSD

**Matrix: Solid** 

Analyte

**Analysis Batch: 173736** 

TPH as Motor Oil (C17-C44)

C	lient S	ampl	e ID:	S-2.5-B1
Prep	Type:	Silica	Gel	Cleanup

		Prep Ba	p Batch: 173318		
		%Rec.		RPD	
D	%Rec	Limits	RPD	Limit	

Result Qualifier Added Result Qualifier Unit ND 431 457.9 mg/Kg 104 71 - 174 5 20

MSD MSD

MSD MSD

Sample Sample

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 105 50 - 150

### **QC Association Summary**

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

### **GC VOA**

### **Prep Batch: 171188**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66884-2	S-5-B1	Total/NA	Solid	5035	
570-66884-7	S-5-A2	Total/NA	Solid	5035	
570-66884-8	S-7.5-A2	Total/NA	Solid	5035	
570-66884-9	S-10-A2	Total/NA	Solid	5035	
570-66884-10	S-12.5-A2	Total/NA	Solid	5035	
570-66884-12	S-5-A4	Total/NA	Solid	5035	
570-66884-13	S-10-A4	Total/NA	Solid	5035	

### **Prep Batch: 171189**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66884-1	S-2.5-B1	Total/NA	Solid	5035	_
570-66884-3	S-7.5-B1	Total/NA	Solid	5035	
570-66884-4	S-10-B1	Total/NA	Solid	5035	
570-66884-5	S-12.5-B1	Total/NA	Solid	5035	
570-66884-6	S-2.5-A2	Total/NA	Solid	5035	
570-66884-11	S-2.5-A4	Total/NA	Solid	5035	
570-66884-14	S-12.5-A4	Total/NA	Solid	5035	
570-66884-15	S-14.5-A2	Total/NA	Solid	5035	

### **Analysis Batch: 173685**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66884-1	S-2.5-B1	Total/NA	Solid	NWTPH-Gx	171189
570-66884-3	S-7.5-B1	Total/NA	Solid	NWTPH-Gx	171189
570-66884-4	S-10-B1	Total/NA	Solid	NWTPH-Gx	171189
570-66884-5	S-12.5-B1	Total/NA	Solid	NWTPH-Gx	171189
570-66884-6	S-2.5-A2	Total/NA	Solid	NWTPH-Gx	171189
570-66884-11	S-2.5-A4	Total/NA	Solid	NWTPH-Gx	171189
570-66884-15	S-14.5-A2	Total/NA	Solid	NWTPH-Gx	171189
MB 570-173685/39	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173685/37	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173685/38	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 173725**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66884-8	S-7.5-A2	Total/NA	Solid	NWTPH-Gx	171188
MB 570-173725/18	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173725/15	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173725/16	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 173726**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66884-2	S-5-B1	Total/NA	Solid	NWTPH-Gx	171188
570-66884-7	S-5-A2	Total/NA	Solid	NWTPH-Gx	171188
570-66884-9	S-10-A2	Total/NA	Solid	NWTPH-Gx	171188
570-66884-10	S-12.5-A2	Total/NA	Solid	NWTPH-Gx	171188
570-66884-12	S-5-A4	Total/NA	Solid	NWTPH-Gx	171188
570-66884-13	S-10-A4	Total/NA	Solid	NWTPH-Gx	171188
MB 570-173726/49	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173726/46	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173726/47	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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### **QC Association Summary**

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

### **GC VOA**

### **Analysis Batch: 173959**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66884-14	S-12.5-A4	Total/NA	Solid	NWTPH-Gx	171189
MB 570-173959/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173959/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173959/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **GC Semi VOA**

### **Prep Batch: 173318**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66884-1	S-2.5-B1	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-2 - DL	S-5-B1	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-3	S-7.5-B1	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-4	S-10-B1	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-5	S-12.5-B1	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-6	S-2.5-A2	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-7	S-5-A2	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-8 - DL	S-7.5-A2	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-9	S-10-A2	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-10	S-12.5-A2	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-11	S-2.5-A4	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-12	S-5-A4	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-13	S-10-A4	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-14	S-12.5-A4	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-15	S-14.5-A2	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173318/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173318/21-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173318/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173318/22-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173318/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-1 MS	S-2.5-B1	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-1 MS	S-2.5-B1	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-1 MSD	S-2.5-B1	Silica Gel Cleanup	Solid	3550C SGC	
570-66884-1 MSD	S-2.5-B1	Silica Gel Cleanup	Solid	3550C SGC	

### **Analysis Batch: 173736**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66884-1	S-2.5-B1	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-3	S-7.5-B1	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-4	S-10-B1	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-5	S-12.5-B1	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-6	S-2.5-A2	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-7	S-5-A2	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-9	S-10-A2	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-11	S-2.5-A4	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-13	S-10-A4	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-14	S-12.5-A4	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-15	S-14.5-A2	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
MB 570-173318/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
LCS 570-173318/21-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
LCS 570-173318/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
LCSD 570-173318/22-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173318

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### **QC Association Summary**

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

### GC Semi VOA (Continued)

### **Analysis Batch: 173736 (Continued)**

Lab Sample ID LCSD 570-173318/3-A	Client Sample ID Lab Control Sample Dup	Prep Type Silica Gel Cleanup	Matrix Solid	Method NWTPH-Dx	Prep Batch 173318
570-66884-1 MS	S-2.5-B1	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-1 MS	S-2.5-B1	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-1 MSD	S-2.5-B1	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-1 MSD	S-2.5-B1	Silica Gel Cleanup	Solid	NWTPH-Dx	173318

### **Analysis Batch: 173940**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method I	Prep Batch
570-66884-2 - DL	S-5-B1	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-8 - DL	S-7.5-A2	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-10	S-12.5-A2	Silica Gel Cleanup	Solid	NWTPH-Dx	173318
570-66884-12	S-5-A4	Silica Gel Cleanup	Solid	NWTPH-Dx	173318

4

6

9

10

13

14

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-B1

Date Collected: 08/11/21 13:10 Date Received: 08/12/21 10:50 Lab Sample ID: 570-66884-1

Lab Sample ID: 570-66884-3

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.374 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173685	08/24/21 05:36	A9VE	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 03:31	A1W	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: S-5-B1** Lab Sample ID: 570-66884-2 **Matrix: Solid** 

Date Collected: 08/11/21 13:15

Date Received: 08/12/21 10:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13.581 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	173726	08/24/21 17:42	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.11 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			173940	08/25/21 11:43	A1W	ECL 1
	Instrumen	t ID: GC48								

**Client Sample ID: S-7.5-B1** Date Collected: 08/11/21 13:20

Date Received: 08/12/21 10:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.746 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173685	08/24/21 06:00	A9VE	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 04:15	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-B1 Lab Sample ID: 570-66884-4 Date Collected: 08/11/21 13:25 **Matrix: Solid** 

Date Received: 08/12/21 10:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13.341 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173685	08/24/21 07:11	A9VE	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.95 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 04:36	A1W	ECL 1
	Instrumen	it ID: GC48								

**Eurofins Calscience LLC** 

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-B1

Client: Cardno, Inc

Date Collected: 08/11/21 13:30 Date Received: 08/12/21 10:50 Lab Sample ID: 570-66884-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.096 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	173685	08/24/21 07:34	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.99 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 04:57	A1W	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-2.5-A2 Date Collected: 08/11/21 13:50

Date Received: 08/12/21 10:50

Lab Sample ID: 570-66884-6 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.258 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	173685	08/24/21 07:58	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.93 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 05:18	A1W	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: S-5-A2** 

Date Collected: 08/11/21 13:55

Date Received: 08/12/21 10:50

Lab Sample ID: 570-66884-7

Lab Sample ID: 570-66884-8

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.927 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC22		500	5 mL	5 mL	173726	08/24/21 15:34	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.97 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 06:24	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-A2

Date Collected: 08/11/21 14:00

Date Received: 08/12/21 10:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.294 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173725	08/24/21 02:08	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.12 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			173940	08/25/21 12:04	A1W	ECL 1
	Instrumen	t ID: GC48								

**Eurofins Calscience LLC** 

Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-A2

Client: Cardno, Inc

Date Collected: 08/11/21 14:05 Date Received: 08/12/21 10:50

Lab Sample ID: 570-66884-9

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.892 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC22		100	5 mL	5 mL	173726	08/24/21 15:09	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 07:06	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-12.5-A2

Date Collected: 08/11/21 14:10

Date Received: 08/12/21 10:50

Lab Sample ID: 570-66884-10

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.257 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1000	5 mL	5 mL	173726	08/24/21 16:51	P1R	ECL 2
	Instrumer	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			173940	08/25/21 12:26	A1W	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-2.5-A4

Date Collected: 08/11/21 14:20

Date Received: 08/12/21 10:50

Lab Sample ID: 570-66884-11

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.924 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173685	08/24/21 08:45	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 07:49	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-5-A4

Date Collected: 08/11/21 14:25

Date Received: 08/12/21 10:50

.ab	Samp	le ID:	570	<b>)-6</b>	688	4-1	2
					. =		

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.72 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	173726	08/24/21 14:43	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			173940	08/25/21 12:48	A1W	ECL 1
	Instrumen	t ID: GC48								

### **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-A4

Date Collected: 08/11/21 14:30

Lab Sample ID: 570-66884-13

**Matrix: Solid** 

Date Received: 08/12/21 10:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13.302 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	173726	08/24/21 17:17	P1R	ECL 2
	Instrumer	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 08:31	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-12.5-A4

Date Collected: 08/11/21 14:35

Date Received: 08/12/21 10:50

Lab Sample ID: 570-66884-14 Matrix: Solid

Lab Sample ID: 570-66884-15

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5 g Prep 5035 5.173 g 171189 08/13/21 13:54 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 173959 08/24/21 17:14 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 9.98 g 10 mL 173318 08/21/21 08:23 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 173736 08/24/21 08:52 A1W ECL 1 Analysis Instrument ID: GC48

Client Sample ID: S-14.5-A2

Date Collected: 08/11/21 14:15

Date Received: 08/12/21 10:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.078 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173685	08/24/21 09:55	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.96 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 09:15	A1W	ECL 1
	Instrumer	t ID: GC48								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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**Matrix: Solid** 

### **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-66884-1

Project/Site: ExxonMobil ADC / 0314476040

### **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	<b>Identification Number</b>	<b>Expiration Date</b>
Washington	State	C916-18	10-11-21

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### **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method **Method Description** Protocol Laboratory NWTPH-Gx NWTPH Northwest - Volatile Petroleum Products (GC) ECL 2 NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC) **NWTPH** ECL 1 ECL 1 3550C SGC SW846 Ultrasonic Extraction 5035 Closed System Purge and Trap SW846 ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-66884-1

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### de Guia, Cecile

From: Paul Prevou <paul.prevou@cardno.com>
Sent: Thursday, August 12, 2021 4:29 PM

**To:** Bobby Thompson; de Guia, Cecile; Cam Penner-Ash; Laina Cole

**Subject:** RE: Eurofins Calscience sample confirmation files from 570-66884-1 ExxonMobil ADC /

0314476040

EXTERNAL EMAIL*

Confirmed, sample time for S-14.5-A2 is 14:15. Today's CoCs coming shortly, attempting to export from my phone.

### Paul Prevou

SR. STAFF GEOLOGIST CARDNO

Direct +1 206 394 7224 Mobile +1 817 965 6081
Address 801 Second Avenue Suite 1150, Seattle, Washington 98104
Email paul.prevou@cardno.com Web www.cardno.com

The health, wellbeing and livelihoods of our people, families, clients and communities is Cardno's key priority. Our teams are responding to COVID-19 with robust business continuity plans and we will continue to work closely with our people and clients to support them every day. > LEARN MORE

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From: Bobby Thompson <robert.thompson@cardno.com>

Sent: Thursday, August 12, 2021 3:45 PM

**To:** Cecile de Guia <Cecile.deGuia@eurofinset.com>; Cam Penner-Ash <cameron.penner-ash@cardno.com>; Laina Cole <laina.cole@cardno.com>

Cc: Paul Prevou <paul.prevou@cardno.com>

Subject: RE: Eurofins Calscience sample confirmation files from 570-66884-1 ExxonMobil ADC / 0314476040

Hello Cecile,

I will need to follow-up with Paul on the sample time to confirm.

The COC must have been a template for a former groundwater event. MS/MSD is not required. Please go ahead and run all samples for percent moisture and report the samples in mg/kg.

Thank you,

**Bobby** 

### **Bobby Thompson**

SENIOR PROJECT MANAGER CARDNO

Mobile +1 206 510 5855

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108

Email robert.thompson@cardno.com Web www.cardno.com

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From: Cecile de Guia < <a href="mailto:Cecile.deGuia@eurofinset.com">Cecile.deGuia@eurofinset.com</a>>

Sent: Thursday, August 12, 2021 4:36 PM

**To:** Cam Penner-Ash < cameron.penner-ash@cardno.com >; Laina Cole < laina.cole@cardno.com >; Bobby Thompson < robert.thompson@cardno.com >

Subject: Eurofins Calscience sample confirmation files from 570-66884-1 ExxonMobil ADC / 0314476040

Importance: High

Hello,

Attached please find the sample confirmation files for job 570-66884-1; ExxonMobil ADC / 0314476040

The following sample(s) was received at the laboratory without a sample collection time documented on the chain of custody: 570-66884-15 (S-14.5-A2). Collection time is14:15 per label.

All samples were marked for MS/MSD, is this correct? % Moisture was not listed on the COC. Units listed on the COC is ug/L, samples are soils.

Please advise.

Thank you.

### Cecile de Guia

Project Manager

Eurofins Calscience LLC Phone: 714-895-5494

& eurofins	7440 LINCOLN WAY		<b>"</b>	Site Name	883588888888888888888888888888888888888	Bulk Plant	CHAIN OF CUSTODY RECORD
<u> </u>	Calscience GARDEN GROVE, CA 92841-1432	32841-1432		rovide MRN for r	de MRN for retail or AFE for major projects		
	TEL: (714) 895-5494 FAX: (714) 894-7501	AX: (714) 894-7501	<u> </u>	Retail Project (MRN)	Ŋ	Δ.	PAGE: \ OF \
				Major Project (AFE)	) (6		
ExxonMobil Engr	Jennifer Sedlachek		凹	Project Name	Ex	ExxonMobil ADC / 0314476040	
LABORATORY CLIENT:  Cardno					GLOBAL ID #/ COELT LOG CODE	ODE:	P O 0314476040 Agreemen# A2804415
ADDRESS: 309 South Cloverdale Street Unit A13	e Street Unit A13				-PROJECT CONTACT		7,
Seattle, WA 98108		لأست			Robert Thompson	Robert Thompson	
Tel 206-510-5855	rv. N/A	robert.thompson@ca	ompsor	@cardno.com	SAMPLER(S): Laul Fire	vou, com considine	
TURNAROUND TIME SAME DAY 24 HR	☐48 HR ☐72 HR	λ ∏ 5 DAYS	☑ 10 DAYS	S/:		REQUESTED AN	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWQCB REPORTING **	NAL COSTS MAY APPLY)  MACHIVE SAMPLES UNTIL	JNTIL					570-66884 Chain of Custody
SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs.	SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method.	ns. Group results by sar	nple, not b	y analysis method.	osaə ea l		Vanishing (1)
Report to: laina.cole@cardino.co	report in instancementarior. All units in vigil. Aboort to: lains cole@eardno.com. robert.thomson@eardno.com. and cameron.penner-ash@eardno.com	d cameron.penner-ash@	cardno.co	£			
(867)	Six Month Deline	SAMPLING	Ħ	MAT- NO. OF CONT	9-Hd.		
USE: SAMPLE ID	Field Point Name	DATE 1		RIX	TWN TWN		CONTAINER TYPE
( S-2 5-6]	ឆ្នាំ	┝	6181		XXX	2 Sodium Bisulfate VOAs 1 Methanol VOA, one 4oz un-preserved glass jar	z un-preserved glass jar
2 8-5-64	8	7	316		XXXXXX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	z un-preserved glass jar
16 S-10-61	ð :2	202/ 13 20 202/ 13 20	3 X	0 0 4 4	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 Sodium Bisuitate VOAs, 1 Methanol VOA, one 402 un-preserved glass far 2 Sodium Bisuitate VOAs, 1 Methanol VOA, one 40z un-preserved glass jar	t un-preserved glass jar z un-preserved glass jar
1.	40	1-	2		メメス	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar	t un-preserved glass jar
6 S-25- AZ	# A2		051	S 4	XXX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	z un-preserved glass jar
-	<u> </u>		ا ا	8 0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	z un-presenved glass jar
4 6	46	0/11 /2021 (1/8	3 >			2 Sodium Riculfate VOAs 1 Methanol VOA, one 402 un-preserved glass jai	s unpresented place jar
2 3-10- AC	17.	-	十 ()			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	z un-preserved glass jar
(   S-2 5- AW	AH	_	5474		1XXX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar	z un-preserved glass jar
(2/S-5- 14)	n'y	-	14.35		XXX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	z un-preserved glass jar
至200	144	1-12021-1-1	+	_	1	2-Sodium Bisulfate VDAs, 4-Medianol-VGA, one 4sz unspreserved glass far	campi eserved giass far
	ልч	8/1) /2021 [14.30	+		XX XX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	z un-preserved glass jar
14 S-12 5- AL	n\delta	8/1 /2021 H	+	2 d	XXX	2 Sodium Bisuifate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	č un-preserved glass jar v in-preserved glass jar
	1	2 2 2	-			2-Codium Biculote VOAs 4 Methanol VOA no 40z un-presence grassia	Z.un-prosogoved-glass far
875	1	84- 12021	<u> </u>			2 Sodium Bisulfate VOAs, 1-Methanol VOA, one 40.	one for un presence glass Jar
8-10-	***************************************	84 /2021				3 Sedium Bisultate VOAs, 1 Methanel VOA, one 401 un preserved glass jar	►un-procerved glace-jar-
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12 5-14,5-AL	A2	1232/11/2		7	マ マ く く	2-Sodium Bisulate VOHS / Me	Methans! 10th, One 402 UN-preserved; ar
Trap Blank	The Dlank	-12024	1	Ja v			
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Paul Prevou	LAN		<u>. ır</u>	edEx			8/ 1/2021 4 15 00 PM
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PRIORITY OVERNIGHT NSR AHS 92841 SA SNA SNA

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www.essvial.com 800-233-8425

Date:

**CUSTODY SEAL** 

Signature:

Page 32 of 33

Client: Cardno, Inc

Job Number: 570-66884-1

Login Number: 66884 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Liao, Gineyau

Creator: Liao, Gineyau		
Question	Answer	Comment
Radioactivity wasn't checked or is $ background as measured by a survey meter.$	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date and/or time on COC, logged in per container labels.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

### **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-67093-1

Client Project/Site: ExxonMobil ADC / 0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Suria

Authorized for release by: 8/30/2021 6:06:34 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS

Review your project results through

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**Have a Question?** 



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040 Laboratory Job ID: 570-67093-1

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### **Sample Summary**

Job ID: 570-67093-1 Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

570-67093-33

S-14.5-H9

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67093-1	S-2.5-I4	Solid	08/11/21 07:50	08/12/21 10:15
570-67093-2	S-5-14	Solid	08/11/21 07:55	08/12/21 10:15
570-67093-3	S-7.5-I4	Solid	08/11/21 08:00	08/12/21 10:15
570-67093-4	S-10-I4	Solid	08/11/21 08:05	08/12/21 10:15
570-67093-5	S-12.5-I4	Solid	08/11/21 08:10	08/12/21 10:15
570-67093-6	S-2.5-H3	Solid	08/11/21 08:15	08/12/21 10:15
570-67093-7	S-6-H3	Solid	08/11/21 08:20	08/12/21 10:15
570-67093-8	S-7.5-H3	Solid	08/11/21 08:25	08/12/21 10:15
570-67093-9	S-10-H3	Solid	08/11/21 08:30	08/12/21 10:15
570-67093-10	S-12.5-H3	Solid	08/11/21 08:35	08/12/21 10:15
570-67093-11	S-2.5-I2	Solid	08/11/21 08:55	08/12/21 10:15
570-67093-12	S-5-I2	Solid	08/11/21 09:00	08/12/21 10:15
570-67093-13	S-7.5-I2	Solid	08/11/21 09:05	08/12/21 10:15
570-67093-14	S-10-I2	Solid	08/11/21 09:10	08/12/21 10:15
570-67093-15	S-12.5-I2	Solid	08/11/21 09:15	08/12/21 10:15
570-67093-16	S-2.5-J3	Solid	08/11/21 09:40	08/12/21 10:15
570-67093-17	S-5-J3	Solid	08/11/21 09:45	08/12/21 10:15
570-67093-18	S-7.5-J3	Solid	08/11/21 09:50	08/12/21 10:15
570-67093-19	S-10-J3	Solid	08/11/21 09:55	08/12/21 10:15
570-67093-20	S-12.5-J3	Solid	08/11/21 10:00	08/12/21 10:15
570-67093-21	DUP	Solid	08/11/21 10:05	08/12/21 10:15
570-67093-22	S-2.5-J9	Solid	08/11/21 10:55	08/12/21 10:15
570-67093-23	S-7.5-J9	Solid	08/11/21 11:05	08/12/21 10:15
570-67093-24	S-10-J9	Solid	08/11/21 11:10	08/12/21 10:15
570-67093-25	S-12.5-J9	Solid	08/11/21 11:15	08/12/21 10:15
570-67093-26	S-2.5-H9	Solid	08/11/21 11:55	08/12/21 10:15
570-67093-27	S-4.5-H9	Solid	08/11/21 12:00	08/12/21 10:15
570-67093-29	S-10-H9	Solid	08/11/21 12:05	08/12/21 10:15
570-67093-30	S-12.5-H9	Solid	08/11/21 12:15	08/12/21 10:15
570-67093-31	S-14.5-J9	Solid	08/11/21 11:20	08/12/21 10:15
570-67093-32	S-5-J9	Solid	08/11/21 11:00	08/12/21 10:15

Solid

08/11/21 12:20 08/12/21 10:15

### **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

### **Qualifiers**

### **GC Semi VOA**

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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### Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67093-1

Job ID: 570-67093-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-67093-1

#### Comments

Please note that samples S-12.5-I2 (570-67093-15) and S-12.5-H9 (570-67093-30) requried dilution analysis using methanol extraction. However, the VOA vials with Methanol for both samples were dry and therefore, with clien'ts permission, the aliquot was taken from the soil glass jar. EPA 5030C prep was performed for these samples and not EPA 5035.

No additional comments.

#### Receipt

The samples were received on 8/12/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

#### Receipt Exceptions

A Chain-of-Custody (COC) was not received with these samples: S-7.5-H9 (570-67093-28). Please refer to the attached email.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173959. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173726. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytica batch 570-174124. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174173. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: Due to the high concentration of TPH as Motor Oil (C17-C44) and TPH as Diesel (C10-C28), the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-173315 and 570-173315 and analytical batch 570-174778 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Detection Summary** Client: Cardno, Inc Job ID: 570-67093-1 Project/Site: ExxonMobil ADC / 0314476040 Lab Sample ID: 570-67093-1 Client Sample ID: S-2.5-I4 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 0.23 NWTPH-Gx mg/Kg ₩ 4.9 1 Total/NA 1300 F1 NWTPH-Dx TPH as Diesel Range 60 mg/Kg ☼ Silica Gel Cleanup TPH as Motor Oil Range 450 F2 F1 60 mg/Kg 10 ☼ NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-5-I4 Lab Sample ID: 570-67093-2 Result Qualifier Unit Dil Fac D Method Analyte RL **Prep Type** TPH as Diesel Range 14 5.9 1 🌣 NWTPH-Dx mg/Kg Silica Gel Cleanup Client Sample ID: S-7.5-I4 Lab Sample ID: 570-67093-3 Result Qualifier RL Unit Dil Fac D Method **Analyte Prep Type** TPH as Motor Oil Range NWTPH-Dx 6.9 5.6 mg/Kg 1 ₩ Silica Gel Cleanup Client Sample ID: S-10-I4 Lab Sample ID: 570-67093-4 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** <u></u> TPH as Diesel Range 36 5.9 mg/Kg NWTPH-Dx Silica Gel Cleanup TPH as Motor Oil Range 12 5.9 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-12.5-I4 Lab Sample ID: 570-67093-5 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Diesel Range 17 ₩ NWTPH-Dx 130 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 140 17 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-2.5-H3 Lab Sample ID: 570-67093-6 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** 230 50 NWTPH-Gx TPH as Gasoline (C4-C13) 11 ₩ Total/NA mg/Kg TPH as Diesel Range 2300 30 NWTPH-Dx mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 1000 30 mg/Kg 5 A NWTPH-Dx Silica Gel Cleanup Lab Sample ID: 570-67093-7 Client Sample ID: S-6-H3

Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 230 42 mg/Kg ₩ NWTPH-Gx Total/NA TPH as Diesel Range NWTPH-Dx 93 5.8 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 26 5.8 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup

Client Sample ID: S-7.5-H3 Lab Sample ID: 570-67093-8

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.1	0.20	mg/Kg	1 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range	13	5.9	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

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12

1 1

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-I	H3 (Continu	ed)			Lab Sa	ample ID: 5	70-67093-8
Analyte	Result	Qualifier	RL	Unit	Dil Fac [	D Method	Prep Type
TPH as Motor Oil Range			5.9	mg/Kg	1 🛪	NWTPH-Dx	Silica Gel
-							Cleanup
Client Sample ID: S-10-F	13				Lab Sa	ample ID: 5	70-67093-9
- Analyte	Result	Qualifier	RL	Unit	Dil Fac [	) Method	Prep Type
TPH as Gasoline (C4-C13)	76		6.3	mg/Kg	50 🛪	NWTPH-Gx	Total/NA
TPH as Diesel Range	370		5.5	mg/Kg	1 ⊀	∷ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	100		5.5	mg/Kg	1 ⊀	∷ NWTPH-Dx	Silica Gel Cleanup
- Client Sample ID: S-12.5	LH3				Lah Sai	mple ID: 57	·
	-110				Lub Oui	inpic ib. or	0-07-000-10
Analyte		Qualifier	RL	Unit	Dil Fac_[	_	Prep Type
TPH as Diesel Range	46		14	mg/Kg	1 ⊀	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	53		14	mg/Kg	1 ⊀	∷ NWTPH-Dx	Cleanup Silica Gel
TFTT as Motor Oil Nange	33		14	mg/Kg	I 3:	× INVVIETI-DX	Cleanup
Client Sample ID: S-2.5-I	12				Lab Sa	mple ID: 57	<u> </u>
						•	
Analyte		Qualifier	9.6 —	Unit		Method  NWTPH-Gx	Prep Type Total/NA
TPH as Gasoline (C4-C13)	170			mg/Kg	50 ⊀		
TPH as Diesel Range	6800		58	mg/Kg	10 ⊀	∷ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2600		58	mg/Kg	10 ⊀	∷ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-5-I2					Lab Sai	mple ID: 57	0-67093-12
- Analyte	Result	Qualifier	RL	Unit	Dil Fac [	D Method	Prep Type
TPH as Gasoline (C4-C13)	310		46	mg/Kg	200	NWTPH-Gx	Total/NA
TPH as Diesel Range	7600		63	mg/Kg	10 ⋠	NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	1800		63	mg/Kg	10 ⊀	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-I	12				Lab Sai	mple ID: 57	
						-	
Analyte		Qualifier	RL	Unit		Method	Prep Type
TPH as Gasoline (C4-C13)	4.3		0.22	mg/Kg	1 *		Total/NA
TPH as Diesel Range	220		6.0	mg/Kg	1 ⊀	. WAN I LH-DX	Silica Gel Cleanup
TPH as Motor Oil Range	170		6.0	mg/Kg	1 ⋠	NWTPH-Dx	Silica Gel
-				0 0			Cleanup
Client Sample ID: S-10-l	2				Lab Sai	mple ID: 57	0-67093-14
Analyte	Result	Qualifier	RL	Unit	Dil Fac T	D Method	Prep Type
TPH as Gasoline (C4-C13)			18	mg/Kg			Total/NA
TDH as Dissal Bangs	1200		14	ma/Va	4 🔻	NIMTDH D	Cilian Cal

This Detection Summary does not include radiochemical test results.

TPH as Diesel Range

TPH as Motor Oil Range

1300

560

Silica Gel

Cleanup

Silica Gel Cleanup

8/30/2021

1 ☼ NWTPH-Dx

1 ☼ NWTPH-Dx

11

11

mg/Kg

mg/Kg

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-I	2				Lab Sa	mple ID: 57	0-67093-15
 Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Gasoline (C4-C13)	13		9.9	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	150		6.3	mg/Kg	1 ∃	∴ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	83		6.3	mg/Kg	1 ₃	∴ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-2.5-J3					Lab Sa	mple ID: 57	0-67093-16
- Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Gasoline (C4-C13)	4.0		0.13	mg/Kg	<u> </u>	NWTPH-Gx	Total/NA
TPH as Diesel Range	7600		56	mg/Kg	10 ⊰	≎ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	3800		56	mg/Kg	10 ⊰	≎ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-5-J3					Lab Sa	mple ID: 57	0-67093-17
- Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Gasoline (C4-C13)	130		6.8	mg/Kg	50	NWTPH-Gx	Total/NA
TPH as Diesel Range	3600		12	mg/Kg	2 →	⇔ NWTPH-Dx	Silica Gel
-							Cleanup
TPH as Motor Oil Range	810		12	mg/Kg	2 3	∴ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-7.5-J3					Lab Sa	mple ID: 57	0-67093-18
- Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Gasoline (C4-C13)	210		13	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	7900		57	mg/Kg	10 ⊰	∵ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	750		57	mg/Kg	10 ⊰	∴ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-10-J3					Lab Sa	mple ID: 57	0-67093-19
- Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Gasoline (C4-C13)	160		35	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	380		17	mg/Kg	2 →	⇔ NWTPH-Dx	Silica Gel
-							Cleanup
TPH as Motor Oil Range	140		17	mg/Kg	2 3	≎ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-12.5-J	3				Lab Sa	mple ID: 57	0-67093-20
- Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Diesel Range	93		16	mg/Kg		_	Silica Gel
Č				<b>5 0</b>			Cleanup
TPH as Motor Oil Range	73		16	mg/Kg	1 ⊰	≎ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: DUP					Lab Sa	mple ID: 57	0-67093-2°
- Analyte	Docule	Qualifier	DI	Unit	Dil Fac I	D Method	Dron Type
<del>-</del>		Qualifier	RL				Prep Type
TPH as Gasoline (C4-C13)	110		14	mg/Kg	50 ⊰	NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

130

TPH as Diesel Range

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1 ☼ NWTPH-Dx

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6.1

mg/Kg

Silica Gel Cleanup

8/30/2021

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: DUP (Co	ntinued)				Lab Sample ID: 57	0-67093-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	15		6.1	mg/Kg	1 🌣 NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-J9					Lab Sample ID: 57	0-67093-2
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	480		62	mg/Kg	250 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	760		6.1	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	210		6.1	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-J9					Lab Sample ID: 57	0-67093-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	3300		240	mg/Kg	500 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	11000		100	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	730		100	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-J9					Lab Sample ID: 57	0-67093-2
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
Analyte TPH as Gasoline (C4-C13)	Result 590	Qualifier	RL 100	Unit mg/Kg	Dil Fac D Method 500 ₩ WTPH-Gx	Prep Type Total/NA
		Qualifier				

Client Sample ID: S-12.5-J9	Lab Sample ID: 570-67093-25

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	1700	830	mg/Kg	500	NWTPH-Gx	Total/NA
TPH as Diesel Range	18000	120	mg/Kg	5	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	4400	120	mg/Kg	5	⇔ NWTPH-Dx	Silica Gel Cleanup

### Client Sample ID: S-2.5-H9 Lab Sample ID: 570-67093-26

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.2	0.19	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	1000	5.3	mg/Kg	1 ⊅	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	70	5.3	mg/Kg	1 ≎	NWTPH-Dx	Cleanup Silica Gel Cleanup

### Client Sample ID: S-4.5-H9 Lab Sample ID: 570-67093-27

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	1600	74	mg/Kg	500	□ NWTPH-Gx	Total/NA
TPH as Diesel Range	36000	300	mg/Kg	50	☼ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	4300	300	mg/Kg	50	⇔ NWTPH-Dx	Cleanup Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

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8/30/2021

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-H9 Lab Sample ID						
Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
2400		160	mg/Kg	500 🌣	NWTPH-Gx	Total/NA
28000		160	mg/Kg	20 🌣	NWTPH-Dx	Silica Gel Cleanup
4700		160	mg/Kg	20 ☼	NWTPH-Dx	Silica Gel Cleanup
H9				Lab San	nple ID: 57	0-67093-3
Popult	Qualifier	ы	linit	Dil Ess. D	Mathad	Dron Tuno
	Qualifier	RL	Unit	Dil Fac D		Prep Type
Result 53 2000	Qualifier	<b>RL</b> 9.9	Unit mg/Kg mg/Kg	Dil Fac D 20 1 ∴	Method NWTPH-Gx NWTPH-Dx	Prep Type Total/NA Silica Gel Cleanup
	2400 28000	Result Qualifier  2400 28000  4700	Result         Qualifier         RL           2400         160           28000         160           4700         160	Result         Qualifier         RL         Unit           2400         160         mg/Kg           28000         160         mg/Kg           4700         160         mg/Kg	Result         Qualifier         RL         Unit         Dil Fac         D           2400         160         mg/Kg         500         \$\frac{1}{2}\$           28000         160         mg/Kg         20         \$\frac{1}{2}\$           4700         160         mg/Kg         20         \$\frac{1}{2}\$	Result 2400         RL 2400         Unit mg/Kg         Dil Fac 500 w NWTPH-Gx         NWTPH-Gx           28000         160         mg/Kg         20 w NWTPH-Dx           4700         160         mg/Kg         20 w NWTPH-Dx

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.5	1.3	mg/Kg		☼	NWTPH-Gx	Total/NA
TPH as Diesel Range	140	23	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	450	23	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-J9				Lab Sa	am	ple ID: 57	0-67093-32

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	3100	120	mg/Kg	500	NWTPH-Gx	Total/NA
TPH as Diesel Range	4000	33	mg/Kg	5	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	410	33	mg/Kg	5	∴ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: 5-14.9	ment Sample ID: 5-14.5-n9					0-6/093-33
Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Diesel Range	200	26	mg/Kg	1 ≎	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	160	26	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-I4

Date Collected: 08/11/21 07:50 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-1

Analyzed

D

Prepared

**Matrix: Solid** 

Dil Fac

Method: NWTPH-Gx - Northwe	est - Volatile Petroleu	m Products (G	C)
Analyte	Result Qualifier	RL	Unit

92

08/13/21 13:54 08/24/21 18:59 0.23 mg/Kg TPH as Gasoline (C4-C13) 4.9 %Recovery Qualifier Limits Prepared Analyzed

Surrogate Dil Fac 50 - 150 08/13/21 13:54 08/24/21 18:59 4-Bromofluorobenzene (Surr) 66

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 1300 F1 60 mg/Kg 08/21/21 08:15 08/27/21 11:19 10 60 mg/Kg © 08/21/21 08:15 08/27/21 11:19 10 **TPH as Motor Oil Range** 450 F2 F1 Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 50 - 150 08/21/21 08:15 08/27/21 11:19

Client Sample ID: S-5-I4 Lab Sample ID: 570-67093-2

Date Received: 08/12/21 10:15

n-Octacosane (Surr)

Date Collected: 08/11/21 07:55 Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Dil Fac 0.22 TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ mg/Kg 08/13/21 13:54 08/24/21 21:07 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/13/21 13:54 08/24/21 21:07 4-Bromofluorobenzene (Surr) 87 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Method: MAALELI-DY - Mort	ilwest - Sellii-Volatile Fel	i oleuili Fioduc	is (GC) - Silica	Ger	Jieanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	14	5.9	mg/Kg	<u></u>	08/21/21 08:15	08/27/21 11:39	1
TPH as Motor Oil Range	ND	5.9	mg/Kg	≎	08/21/21 08:15	08/27/21 11:39	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95	50 - 150			08/21/21 08:15	08/27/21 11:39	1

Client Sample ID: S-7.5-I4 Lab Sample ID: 570-67093-3 **Matrix: Solid** 

Date Collected: 08/11/21 08:00 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.19 mg/Kg 08/13/21 13:54 08/24/21 20:41

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 50 - 150 4-Bromofluorobenzene (Surr) 84 08/13/21 13:54 08/24/21 20:41

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.6	 mg/Kg	₩	08/21/21 08:15	08/27/21 18:15	1
TPH as Motor Oil Range	6.9		5.6	mg/Kg	₩	08/21/21 08:15	08/27/21 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 82 50 - 150 08/21/21 08:15 08/27/21 18:15

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-I4

Date Collected: 08/11/21 08:05 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-4

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest	- Volatile Petroleum F	Products (GC)
Δnalvto	Result Qualifier	RI

Analyte	Result	Qualifier	KL	Unit	U	Prepared	Analyzed	DII Fac	
TPH as Gasoline (C4-C13)	ND		0.091	mg/Kg	<u></u>	08/13/21 13:54	08/24/21 20:16	1	
Surrogate	%Recovery (	Qualifier	Limits			Prepared	Analyzed	Dil Fac	

50 - 150 08/13/21 13:54 08/24/21 20:16 4-Bromofluorobenzene (Surr)

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifie	r RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	36	5.9	mg/Kg	<u></u>	08/21/21 08:15	08/27/21 22:31	1
TPH as Motor Oil Range	12	5.9	mg/Kg	₩	08/21/21 08:15	08/27/21 22:31	1
Surrogate	%Recovery Qualifie	r limits			Prepared	Analyzed	Dil Fac

102 Qua 08/21/21 08:15 08/27/21 22:31 n-Octacosane (Surr) 50 - 150

Client Sample ID: S-12.5-I4 Lab Sample ID: 570-67093-5

Date Collected: 08/11/21 08:10

**Matrix: Solid** 

Date Received: 08/12/21 10:15

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		1.2	mg/Kg	₩	08/13/21 13:54	08/24/21 21:32	1
	a		,					

Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 65 50 - 150 08/13/21 13:54 08/24/21 21:32

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

			( )				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	130	17	mg/Kg	<u></u>	08/21/21 08:15	08/27/21 22:50	1
TPH as Motor Oil Range	140	17	mg/Kg	₽	08/21/21 08:15	08/27/21 22:50	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101	50 - 150			08/21/21 08:15	08/27/21 22:50	1

Client Sample ID: S-2.5-H3 Lab Sample ID: 570-67093-6 **Matrix: Solid** 

Date Collected: 08/11/21 08:15

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)		Qualifier	RL 11	Unit mg/Kg	<u>D</u>	Prepared 08/13/21 13:54	Analyzed 08/24/21 18:08	Dil Fac 50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

4-Bromofluorobenzene (Surr) 08/13/21 13:54 08/24/21 18:08 100 50 - 150

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2300		30	mg/Kg	<u></u>	08/21/21 08:15	08/27/21 23:10	5
TPH as Motor Oil Range	1000		30	mg/Kg	₩	08/21/21 08:15	08/27/21 23:10	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 50 - 150 08/21/21 08:15 08/27/21 23:10

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-6-H3

Date Collected: 08/11/21 08:20 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-7

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Po	Petroleum Products (GC)
--------------------------------------------	-------------------------

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	230		42	mg/Kg	₩	08/13/21 13:54	08/24/21 23:53	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

58 50 - 150 08/13/21 13:54 08/24/21 23:53 4-Bromofluorobenzene (Surr)

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifi	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	93	5.8	mg/Kg	<del></del>	08/21/21 08:15	08/27/21 23:30	1
TPH as Motor Oil Range	26	5.8	mg/Kg	☼	08/21/21 08:15	08/27/21 23:30	1
Surrogate	%Recovery Qualifi	ier Limits			Prepared	Analyzed	Dil Fac

<u>08/21/21 08:15</u> <u>08/27/21 23:30</u> n-Octacosane (Surr) 96 50 - 150

Client Sample ID: S-7.5-H3 Lab Sample ID: 570-67093-8 Date Collected: 08/11/21 08:25 **Matrix: Solid** 

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.1	0.20	mg/Kg	☼	08/13/21 13:54	08/24/21 21:58	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 99 50 - 150 08/13/21 13:54 08/24/21 21:58

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13	5.9	mg/Kg	<del>*</del>	08/21/21 08:15	08/27/21 23:50	1
TPH as Motor Oil Range	11	5.9	mg/Kg	☼	08/21/21 08:15	08/27/21 23:50	1
Surrogate	%Recovery Qua	lifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97	50 - 150			08/21/21 08:15	08/27/21 23:50	1

Client Sample ID: S-10-H3 Lab Sample ID: 570-67093-9

Date Collected: 08/11/21 08:30

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	76		6.3	mg/Kg	☆	08/13/21 13:54	08/24/21 22:19	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analvzed	Dil Fac

Surrogate %Recovery Qualifier Prepared Analyzed 50 - 150 08/13/21 13:54 08/24/21 22:19 4-Bromofluorobenzene (Surr) 77

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	370		5.5	mg/Kg	<del>*</del>	08/21/21 08:15	08/28/21 00:09	1
TPH as Motor Oil Range	100		5.5	mg/Kg	₽	08/21/21 08:15	08/28/21 00:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 100 50 - 150 08/21/21 08:15 08/28/21 00:09

**Matrix: Solid** 

Client Sample ID: S-12.5-H3

Date Collected: 08/11/21 08:35 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-10

Analyzed

Prepared

**Matrix: Solid** 

Dil Fac

Job ID: 570-67093-1

Method: NWTPH-Gx - Northwest -	- Volatile Petroleum	Products (GC)
Analyte	Result Qualifier	RL

TPH as Gasoline (C4-C13)	ND	0.58	mg/Kg	☼ 08/13/21 13:54	08/24/21 22:24	1	
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac	

Unit

50 - 150 08/13/21 13:54 08/24/21 22:24 4-Bromofluorobenzene (Surr)

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	46		14	mg/k	.g ∵	08/21/21 08:15	08/28/21 00:30	1
TPH as Motor Oil Range	53		14	mg/k	ξg ⇔	08/21/21 08:15	08/28/21 00:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

08/21/21 08:15 08/28/21 00:30 n-Octacosane (Surr) 110 50 - 150

Client Sample ID: S-2.5-I2 Lab Sample ID: 570-67093-11 Date Collected: 08/11/21 08:55

Date Received: 08/12/21 10:15

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	170	9.6	mg/Kg	<del>-</del>	08/13/21 13:54	08/24/21 22:43	50

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 66 50 - 150 08/13/21 13:54 08/24/21 22:43

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	: D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6800		58	mg/l	Kg ∵	08/21/21 08:15	08/28/21 00:49	10
TPH as Motor Oil Range	2600		58	mg/l	Kg ⇔	08/21/21 08:15	08/28/21 00:49	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150			08/21/21 08:15	08/28/21 00:49	10

Client Sample ID: S-5-I2 Lab Sample ID: 570-67093-12 **Matrix: Solid** 

Date Collected: 08/11/21 09:00

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result Qualifier	RL 46	Unit mg/Kg	_ <u>D</u>	Prepared 08/13/21 13:54	Analyzed 08/25/21 00:17	Dil Fac
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

08/13/21 13:54 08/25/21 00:17 4-Bromofluorobenzene (Surr) 7.3 50 - 150 200

Method: NWTPH-Dx - Northy	est - Semi-Volatile Petroleum	Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7600	63	mg/Kg	<u></u>	08/21/21 08:15	08/28/21 19:42	10
TPH as Motor Oil Range	1800	63	mg/Kg	☼	08/21/21 08:15	08/28/21 19:42	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125	50 - 150			08/21/21 08:15	08/28/21 19:42	10

**Eurofins Calscience LLC** 

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-I2

Date Collected: 08/11/21 09:05 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-13

Analyzed

Matrix: Solid

Dil Fac

Job ID: 570-67093-1

	Method: NWTPH-Gx - Northw	est - Volatile	Petroleum	<b>Products (GC)</b>			
	Analyte	Result	Qualifier	RL	Unit	D	Prepared
	TPH as Gasoline (C4-C13)	4.3		0.22	mg/Kg	— <del>-</del>	08/13/21 13:5

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 58

3/13/21 13:54 08/24/21 22:49 Prepared Analyzed Dil Fac 08/13/21 13:54 08/24/21 22:49

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 220 6.0 mg/Kg 08/21/21 08:15 08/28/21 01:29 6.0 mg/Kg 08/21/21 08:15 08/28/21 01:29 **TPH as Motor Oil Range** 170

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/21/21 08:15 08/28/21 01:29 96

Client Sample ID: S-10-I2

Date Collected: 08/11/21 09:10 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-14

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 08/13/21 13:54 08/24/21 23:29 TPH as Gasoline (C4-C13) 53 <u>18</u> mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 84 50 - 150 08/13/21 13:54 08/24/21 23:29 50

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 1300 <u>11</u> mg/Kg 08/21/21 08:15 08/28/21 01:50 **TPH as Motor Oil Range 560** 11 mg/Kg 08/21/21 08:15 08/28/21 01:50 %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 08/21/21 08:15 08/28/21 01:50 n-Octacosane (Surr) 105 50 - 150

Client Sample ID: S-12.5-I2 Lab Sample ID: 570-67093-15 Date Collected: 08/11/21 09:15

Date Received: 08/12/21 10:15

**Matrix: Solid** 

Method: NWTPH-Gx - Northw	est - Volatile	Petroleu	m Products (GC	<b>;</b> )					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	13		9.9	mg/Kg		08/25/21 15:01	08/25/21 17:04	20	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	98		50 - 150			08/25/21 15:01	08/25/21 17:04	20	

Method: NWTPH-Dx - North	thwest - Semi-Volatile I	Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	r RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	150	6.3	mg/Kg	☼	08/21/21 08:15	08/28/21 02:11	1
TPH as Motor Oil Range	83	6.3	mg/Kg	☼	08/21/21 08:15	08/28/21 02:11	1
Surrogate	%Recovery Qualifie	r Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96	50 - 150			08/21/21 08:15	08/28/21 02:11	1

Dil Fac

Job ID: 570-67093-1

Analyzed

Client Sample ID: S-2.5-J3 Lab Sample ID: 570-67093-16

Date Collected: 08/11/21 09:40 **Matrix: Solid** Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nort	hwest - Volatile Petroleum F	Products (GC)
Δnalvte	Result Qualifier	RI

TPH as Gasoline (C4-C13)	4.0	0.13	mg/Kg	© 08/13/21 13:54	08/24/21 19:35	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1 Dramaficarahanzana (Curr)		EO 150		00/12/21 12:51	00/04/04 10:25	

Unit

Prepared

4-Bromofluorobenzene (Surr) 65 50 - 150 08/13/21 13:54 08/24/21 19:35

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
TPH as Diesel Range	7600	56	mg/Kg	₩	08/21/21 08:15	08/28/21 02:30	10		
TPH as Motor Oil Range	3800	56	mg/Kg	☆	08/21/21 08:15	08/28/21 02:30	10		
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	121	50 - 150			08/21/21 08:15	08/28/21 02:30	10		

Lab Sample ID: 570-67093-17 Client Sample ID: S-5-J3

Date Received: 08/12/21 10:15

Date Collected: 08/11/21 09:45 **Matrix: Solid** 

Method: NWTPH-Gx - North	iwest - Volatile Petro	oleum Products (GC	(ز				
Analyte	Result Qualifi	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	130	6.8	mg/Kg	— <u></u>	08/13/21 13:54	08/25/21 16:59	50
Surrogate	%Recovery Qualifi	ier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		50 - 150			08/13/21 13:54	08/25/21 16:59	50

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3600	12	mg/Kg	— <u></u>	08/21/21 08:15	08/28/21 02:50	2
TPH as Motor Oil Range	810	12	mg/Kg	₽	08/21/21 08:15	08/28/21 02:50	2
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits 50 - 150			Prepared 08/21/21 08:15	Analyzed 08/28/21 02:50	Dil Fac

Client Sample ID: S-7.5-J3 Lab Sample ID: 570-67093-18 **Matrix: Solid** 

Date Collected: 08/11/21 09:50 Date Received: 08/12/21 10:15

Method: NWTPH-GX - North	Result Qualifier	RL	, Unit	D Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	210	13	mg/Kg	□ □ □ 08/13/21 13:5	08/25/21 05:22	100
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84	50 - 150		08/13/21 13:5	08/25/21 05:22	100

Method. MW I FIT-DX - Morth	thou. NWTFTI-DX - Northwest - Seini-Volatile Fetroleum Froducts (GC) - Sinca Ger Cleanup								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
TPH as Diesel Range	7900	57	mg/Kg	₩	08/21/21 08:15	08/28/21 20:02	10		
TPH as Motor Oil Range	750	57	mg/Kg	₽	08/21/21 08:15	08/28/21 20:02	10		
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	91	50 - 150			08/21/21 08:15	08/28/21 20:02	10		

Lab Sample ID: 570-67093-19 Client Sample ID: S-10-J3

Date Collected: 08/11/21 09:55 Date Received: 08/12/21 10:15

08/21/21 08:15 08/28/21 03:52

Analyzed

D

Prepared

Matrix: Solid

Dil Fac

Job ID: 570-67093-1

Method: NWTPH-Gx - Northwe	st - Volatile	Petroleur	n Products (GC)	
Analyte	Result	Qualifier	RL	Unit

© 08/13/21 14:17 08/25/21 05:45 160 35 mg/Kg 100 TPH as Gasoline (C4-C13)

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 08/13/21 14:17 08/25/21 05:45 100 4-Bromofluorobenzene (Surr) 78

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	380	17	mg/Kg	<del>\</del>	08/21/21 08:15	08/28/21 03:31	2
TPH as Motor Oil Range	140	17	mg/Kg	₽	08/21/21 08:15	08/28/21 03:31	2
Surrogato	%Pocovery Or	ualifior   Limite			Propared	Analyzod	Dil Eac

Surrogate Prepared Analyzed %Recovery Qualifiei n-Octacosane (Surr) 89 50 - 150 08/21/21 08:15 08/28/21 03:31

Client Sample ID: S-12.5-J3 Lab Sample ID: 570-67093-20

Date Received: 08/12/21 10:15

Date Collected: 08/11/21 10:00 **Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Dil Fac TPH as Gasoline (C4-C13) ND 0.84 mg/Kg © 08/13/21 13:54 08/24/21 18:48

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/13/21 13:54 08/24/21 18:48 4-Bromofluorobenzene (Surr) 65 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

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Analyte	Result Qualifier	RL	Unit	ט	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	93	16	mg/Kg	<u></u>	08/21/21 08:15	08/28/21 03:52	1
TPH as Motor Oil Range	73	16	mg/Kg	₩	08/21/21 08:15	08/28/21 03:52	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: DUP Lab Sample ID: 570-67093-21

50 - 150

Date Received: 08/12/21 10:15

n-Octacosane (Surr)

Date Collected: 08/11/21 10:05 **Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

105

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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	110	14	mg/Kg	₽	08/13/21 14:17	08/24/21 23:06	50
Surrogato	% Possyery Ouglifier	Limite			Propared	Analyzod	Dil Ess

Analyzed %Recovery Qualifier 4-Bromofluorobenzene (Surr) 83 50 - 150 08/13/21 14:17 08/24/21 23:06

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	130		6.1	mg/Kg	☼	08/21/21 08:24	08/28/21 07:36	1
TPH as Motor Oil Range	15		6.1	mg/Kg	₩	08/21/21 08:24	08/28/21 07:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 50 - 150 08/21/21 08:24 08/28/21 07:36 Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-J9

Date Collected: 08/11/21 10:55 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-22

**Matrix: Solid** 

Job ID: 570-67093-1

	Method: NWTPH-Gx - Northy	west - Volatile Petroleum P	roducts (GC)
1	Analyte	Result Qualifier	RL

Unit D Prepared Analyzed Dil Fac 08/13/21 14:17 08/25/21 06:09 TPH as Gasoline (C4-C13) 480 62 mg/Kg 250

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 08/13/21 14:17 08/25/21 06:09 250 4-Bromofluorobenzene (Surr) 84

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	•	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	760		6.1		mg/Kg	<del>*</del>	08/21/21 08:24	08/28/21 07:55	1
TPH as Motor Oil Range	210		6.1		mg/Kg	☼	08/21/21 08:24	08/28/21 07:55	1
Surragata	9/ Bassyany	Ouglifier	Limita				Branarad	Anglyzad	Dil Ess

Surrogate Limits Prepared %Recovery Qualifier Analyzed n-Octacosane (Surr) 99 50 - 150 08/21/21 08:24 08/28/21 07:55

Client Sample ID: S-7.5-J9 Lab Sample ID: 570-67093-23

Date Received: 08/12/21 10:15

Date Collected: 08/11/21 11:05 **Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3300		240	mg/Kg	₩	08/13/21 14:17	08/25/21 06:32	500

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/13/21 14:17 08/25/21 06:32 4-Bromofluorobenzene (Surr) 108 50 - 150 500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	11000	100	mg/Kg	— <u>—</u>	08/21/21 08:24	08/28/21 20:23	10
TPH as Motor Oil Range	730	100	mg/Kg	₩	08/21/21 08:24	08/28/21 20:23	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: S-10-J9 Lab Sample ID: 570-67093-24 **Matrix: Solid** 

50 - 150

Date Collected: 08/11/21 11:10

Date Received: 08/12/21 10:15

n-Octacosane (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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Analyte TPH as Gasoline (C4-C13)	Result 590	Qualifier	RL 100	Unit mg/Kg	_ <del>D</del>	Prepared 08/13/21 14:17	Analyzed 08/25/21 06:56	Dil Fac 500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

08/13/21 14:17 08/25/21 06:56 4-Bromofluorobenzene (Surr) 90 50 - 150 500

Method: NWTPH-Dx -	- Northwest	· Semi-Volatile Petroleum Products (GC) - Silica Gel Clea	nun

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13000	51	mg/Kg	<del>*</del>	08/21/21 08:24	08/28/21 20:44	5
TPH as Motor Oil Range	2700	51	mg/Kg	₽	08/21/21 08:24	08/28/21 20:44	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	142	50 - 150			08/21/21 08:24	08/28/21 20:44	5

08/21/21 08:24 08/28/21 20:23

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-J9

Lab Sample ID: 570-67093-25

Date Collected: 08/11/21 11:15 **Matrix: Solid** Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleui	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1700		830	mg/Kg	₩	08/13/21 14:17	08/25/21 07:43	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			08/13/21 14:17	08/25/21 07:43	500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	18000		120	mg/Kg	<u></u>	08/21/21 08:24	08/28/21 21:04	
TPH as Motor Oil Range	4400		120	mg/Kg	₩	08/21/21 08:24	08/28/21 21:04	Ę
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	91		50 - 150			08/21/21 08:24	08/28/21 21:04	-

**Client Sample ID: S-2.5-H9** Lab Sample ID: 570-67093-26 **Matrix: Solid** 

Date Collected: 08/11/21 11:55 Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.19 mg/Kg © 08/13/21 14:16 08/24/21 23:15 4.2 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 50 - 150 08/13/21 14:16 08/24/21 23:15

Method: NWTPH-Dx - Nort	thwest - Semi-Vo	olatile Pet	roleum Produ	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1000		5.3	mg/Kg	— <u></u>	08/21/21 08:24	08/28/21 09:17	1
TPH as Motor Oil Range	70		5.3	mg/Kg	₽	08/21/21 08:24	08/28/21 09:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94		50 - 150			08/21/21 08:24	08/28/21 09:17	1

Client Sample ID: S-4.5-H9 Lab Sample ID: 570-67093-27

Date Collected: 08/11/21 12:00 **Matrix: Solid** Date Received: 08/12/21 10:15

est - Volatile	<b>Petroleur</b>	n Products (GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1600		74	mg/Kg	₩	08/13/21 14:17	08/25/21 08:06	500
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
138		50 - 150			08/13/21 14:17	08/25/21 08:06	500
	Result 1600 %Recovery	Result Qualifier 1600	%Recovery Qualifier Limits	Result 1600     Qualifier RL 74     Unit mg/Kg       %Recovery Qualifier Limits     Limits	Result 1600         Qualifier         RL 74         Unit mg/Kg         D mg/Kg           %Recovery Qualifier         Limits	Result 1600         Qualifier RL 74         Unit mg/Kg         D 08/13/21 14:17           %Recovery Qualifier Limits         Limits         Prepared	Result 1600         Qualifier RL 74         Unit mg/Kg         D 08/13/21 14:17         Prepared 08/25/21 08:06           %Recovery Qualifier Limits         Prepared Analyzed

Method: NWTPH-Dx - Nort	thwest - Semi-Vola	latile Petr	oleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	36000		300	mg/Kg	— <u></u>	08/21/21 08:24	08/28/21 21:24	50
TPH as Motor Oil Range	4300		300	mg/Kg	₩	08/21/21 08:24	08/28/21 21:24	50
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150			08/21/21 08:24	08/28/21 21:24	50

4-Bromofluorobenzene (Surr)

Client Sample ID: S-10-H9

Date Collected: 08/11/21 12:05 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-29

08/13/21 14:17 08/25/21 08:29

**Matrix: Solid** 

500

Job ID: 570-67093-1

Method: NWTPH-Gx - Northw	est - Volatile Petrole	eum Products (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2400	160	mg/Kg	<del>-</del>	08/13/21 14:17	08/25/21 08:29	500
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

50 - 150

93

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 28000 160 mg/Kg 20 160 mg/Kg ☼ 08/21/21 08:24 08/30/21 03:44 **TPH as Motor Oil Range** 4700 20 %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed n-Octacosane (Surr) 50 - 150 08/21/21 08:24 08/30/21 03:44 108

Client Sample ID: S-12.5-H9 Lab Sample ID: 570-67093-30 **Matrix: Solid** 

Date Collected: 08/11/21 12:15

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - North Analyte		Petroleur Qualifier	n Products (GC RL	Unit	n	Prepared	Analyzed	Dil Fac
Analyte	itesuit	Qualifier				Fiepaieu	Allalyzeu	Diriac
TPH as Gasoline (C4-C13)	53		9.9	mg/Kg		08/25/21 15:01	08/25/21 17:33	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/25/21 15:01	08/25/21 17:33	20

Method: NWTPH-Dx - North			• •	_	•	Anabasad	D". E
Analyte	Result Qualifier	r RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2000	32	mg/Kg	<u></u>	08/21/21 08:24	08/28/21 10:17	1
TPH as Motor Oil Range	1200	32	mg/Kg	₩	08/21/21 08:24	08/28/21 10:17	1
Surrogate	%Recovery Qualifier	rLimits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107	50 - 150			08/21/21 08:24	08/28/21 10:17	1

Client Sample ID: S-14.5-J9 Lab Sample ID: 570-67093-31 Date Collected: 08/11/21 11:20 **Matrix: Solid** 

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - North	nwest - Volatile	Petroleur	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.5		1.3	mg/Kg	<del>*</del>	08/13/21 14:16	08/24/21 23:40	1
Surrogate		Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150			08/13/21 14:16	08/24/21 23:40	1

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile P	Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	140	23	mg/Kg	₽	08/21/21 08:24	08/28/21 10:38	1
TPH as Motor Oil Range	450	23	mg/Kg	☆	08/21/21 08:24	08/28/21 10:38	1
Surrogate	%Recovery Qualifier				Prepared 00/04/04	Analyzed	Dil Fac
n-Octacosane (Surr)	105	50 - 150			08/21/21 08:24	08/28/21 10:38	1

## **Client Sample Results**

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-J9 Lab Sample ID: 570-67093-32

Date Collected: 08/11/21 11:00 **Matrix: Solid** 

Date Received: 08/12/21 10:15

Method: NWTPH-Gx - Northy	vest - Volatile	Petroleui	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3100		120	mg/Kg	₩	08/13/21 14:17	08/25/21 08:53	500
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/13/21 14:17	Analyzed 08/25/21 08:53	<b>Dil Fac</b> 500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4000		33	mg/Kg	<u></u>	08/21/21 08:24	08/28/21 22:04	
TPH as Motor Oil Range	410		33	mg/Kg	₩	08/21/21 08:24	08/28/21 22:04	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		50 - 150			08/21/21 08:24	08/28/21 22:04	

Lab Sample ID: 570-67093-33 Client Sample ID: S-14.5-H9 **Matrix: Solid** 

Date Collected: 08/11/21 12:20

Date Received: 08/12/21 10:15

<b>Method: NWTPH-Gx - Nortl</b>	hwest - Volatile	Petroleur	n Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
TPH as Gasoline (C4-C13)	ND		1.8	mg/Kg	<del>*</del>	08/13/21 14:16	08/25/21 00:06	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150			08/13/21 14:16	08/25/21 00:06	

Method: NWTPH-Dx - Nort	thwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	200		26	mg/Kg	<u></u>	08/21/21 08:24	08/28/21 11:57	1
TPH as Motor Oil Range	160		26	mg/Kg	≎	08/21/21 08:24	08/28/21 11:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			08/21/21 08:24	08/28/21 11:57	1

# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Total/NA

			Prep Type: Total/NA
		BFB1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(50-150)	
570-67093-1	S-2.5-I4	66	
570-67093-2	S-5-I4	87	
570-67093-3	S-7.5-I4	84	
570-67093-4	S-10-I4	87	
570-67093-5	S-12.5-I4	65	
570-67093-6	S-2.5-H3	100	
570-67093-7	S-6-H3	58	
570-67093-8	S-7.5-H3	99	
570-67093-9	S-10-H3	77	
570-67093-10	S-12.5-H3	64	
570-67093-11	S-2.5-I2	66	
570-67093-12	S-5-I2	73	
570-67093-13	S-7.5-I2	58	
570-67093-14	S-10-I2	84	
570-67093-15	S-12.5-I2	98	
570-67093-16	S-2.5-J3	65	
570-67093-17	S-5-J3	119	
570-67093-18	S-7.5-J3	84	
570-67093-19	S-10-J3	78	
570-67093-20	S-12.5-J3	65	
570-67093-21	DUP	83	
570-67093-22	S-2.5-J9	84	
570-67093-23	S-7.5-J9	108	
570-67093-24	S-10-J9	90	
570-67093-25	S-12.5-J9	69	
570-67093-26	S-2.5-H9	70	
570-67093-27	S-4.5-H9	138	
570-67093-29	S-10-H9	93	
570-67093-30	S-12.5-H9	100	
570-67093-31	S-14.5-J9	60	
570-67093-32	S-5-J9	99	
570-67093-33	S-14.5-H9	64	
LCS 570-173726/46	Lab Control Sample	69	
LCS 570-173959/3	Lab Control Sample	112	
LCS 570-174124/37	Lab Control Sample	80	
LCS 570-174173/3	Lab Control Sample	89	
LCS 570-174304/1-A	Lab Control Sample	109	
LCSD 570-173726/47	Lab Control Sample Dup	93	
LCSD 570-173959/4	Lab Control Sample Dup	91	
LCSD 570-174124/38	Lab Control Sample Dup	91	
LCSD 570-174173/4	Lab Control Sample Dup	88	
LCSD 570-174304/2-A	Lab Control Sample Dup	103	
MB 570-173726/48	Method Blank	82	
MB 570-173726/49	Method Blank	70	
MB 570-173959/5	Method Blank	77	
MB 570-173959/6	Method Blank	72	
MB 570-174124/40	Method Blank	57	
MB 570-174173/6	Method Blank	63	
MB 570-174305/1-A	Method Blank	82	

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## **Surrogate Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid			Prep Type: Silica Gel Cleanup
_		OTCSN	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(50-150)	
570-67093-1	S-2.5-I4	92	
570-67093-1 MS	S-2.5-I4	125	
570-67093-1 MS	S-2.5-I4	78	
570-67093-1 MSD	S-2.5-I4	95	
570-67093-1 MSD	S-2.5-I4	99	
570-67093-2	S-5-I4	95	
570-67093-3	S-7.5-I4	82	
570-67093-4	S-10-I4	102	
570-67093-5	S-12.5-I4	101	
570-67093-6	S-2.5-H3	87	
570-67093-7	S-6-H3	96	
570-67093-8	S-7.5-H3	97	
570-67093-9	S-10-H3	100	
570-67093-10	S-12.5-H3	110	
570-67093-11	S-2.5-I2	96	
570-67093-11	S-5-I2	125	
570-67093-13	S-7.5-I2	96	
570-67093-13 570-67093-14	S-10-I2	105	
570-67093-14	S-12.5-I2	96	
570-67093-16	S-2.5-J3	121	
570-67093-16	S-2.5-J3 S-5-J3	104	
570-67093-18 570-67093-19	S-7.5-J3 S-10-J3	91 89	
570-67093-19	S-10-33 S-12.5-J3	105	
		98	
570-67093-21	DUP	98 94	
570-67093-21 MS	DUP DUP		
570-67093-21 MS	DUP	103 96	
570-67093-21 MSD	DUP	98	
570-67093-21 MSD			
570-67093-22	S-2.5-J9	99	
570-67093-23	S-7.5-J9	114	
570-67093-24	S-10-J9	142	
570-67093-25	S-12.5-J9	91	
570-67093-26	S-2.5-H9	94	
570-67093-27	S-4.5-H9	119	
570-67093-29 - DL	S-10-H9	108	
570-67093-30	S-12.5-H9	107	
570-67093-31	S-14.5-J9	105	
570-67093-32	S-5-J9	108	
570-67093-33	S-14.5-H9	107	
LCS 570-173315/26-A	Lab Control Sample	89	
LCS 570-173315/2-A	Lab Control Sample	88	
LCS 570-173319/18-A	Lab Control Sample	99	
LCS 570-173319/2-A	Lab Control Sample	106	
LCSD 570-173315/27-A	Lab Control Sample Dup	86	
LCSD 570-173315/3-A	Lab Control Sample Dup	83	
LCSD 570-173319/19-A	Lab Control Sample Dup	100	

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Job ID: 570-67093-1

## **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Prep Type: Silica Gel Cleanup **Matrix: Solid** 

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
_ab Sample ID	Client Sample ID	(50-150)	
CSD 570-173319/3-A	Lab Control Sample Dup	102	
MB 570-173315/1-A	Method Blank	90	
MB 570-173319/1-A	Method Blank	107	
Surrogate Legend			

Client: Cardno, Inc

Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: MB 570-173726/48 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 173726** 

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 08/24/21 13:52

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 82 50 - 150 08/24/21 13:52

Client Sample ID: Method Blank Lab Sample ID: MB 570-173726/49 **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 173726** 

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 08/24/21 14:18 20

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 50 - 150 08/24/21 14:18

Lab Sample ID: LCS 570-173726/46

**Matrix: Solid** 

**Analysis Batch: 173726** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.11 1.810 mg/Kg 77 - 128

LCS LCS

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 69 50 - 150

Lab Sample ID: LCSD 570-173726/47

**Matrix: Solid** 

**Analysis Batch: 173726** 

Spike LCSD LCSD %Rec. Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Gasoline (C4-C13) 2.12 1.766 83 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150 93

Lab Sample ID: MB 570-173959/5

**Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Analysis Batch: 173959** 

MB MB Result Qualifier RL Analyte Unit Prepared Analyzed Dil Fac 0.25 TPH as Gasoline (C4-C13) ND mg/Kg 08/24/21 14:37

MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 50 - 150 08/24/21 14:37 4-Bromofluorobenzene (Surr) 77

Client Sample ID: Lab Control Sample Dup **Prep Type: Total/NA** 

**RPD** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-173959/6 Client Sample ID: Method Blank

**Matrix: Solid** 

Client: Cardno, Inc

Prep Type: Total/NA **Analysis Batch: 173959** MB MB

Analyzed Result Qualifier RL Unit Dil Fac Analyte D Prepared TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 08/24/21 15:00 20

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 72 50 - 150 08/24/21 15:00

Lab Sample ID: LCS 570-173959/3 Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 173959** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits

TPH as Gasoline (C4-C13) 2.10 1.946 mg/Kg 93 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-173959/4 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 173959** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.12 1.967 mg/Kg 93 77 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 91 50 - 150

Lab Sample ID: MB 570-174124/40 Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 174124** 

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac

TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 5.0 08/25/21 04:35 mg/Kg

MB MB Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/25/21 04:35 57

Lab Sample ID: LCS 570-174124/37

**Matrix: Solid** 

**Analysis Batch: 174124** 

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Analyte 2.12 77 - 128 TPH as Gasoline (C4-C13) 1.972 mg/Kg 93

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 80

**Prep Type: Total/NA** 

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: LCSD 570-174124/38

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

**Client Sample ID: Lab Control Sample** 

% Pac

Prep Type: Total/NA

Prep Type: Total/NA

**Matrix: Solid** 

Client: Cardno, Inc

**Analysis Batch: 174124** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.12	1.968		mg/Kg		93	77 - 128	0	16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr)

**Client Sample ID: Method Blank** Lab Sample ID: MB 570-174173/6 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174173** 

MB MB

Analyte TPH as Gasoline (C4-C13)	Result ND	Qualifier	<b>RL</b> 5.0	Unit mg/Kg	_ <u>D</u>	Prepared	Analyzed 08/25/21 11:52	Dil Fac
_	МВ	MB						

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 63 08/25/21 11:52

Lab Sample ID: LCS 570-174173/3

**Matrix: Solid** 

**Analysis Batch: 174173** 

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits

TPH as Gasoline (C4-C13) 2.12 1.992 mg/Kg 77 - 128

Snika

LCS LCS

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 89 50 - 150

Lab Sample ID: LCSD 570-174173/4 Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

ICSD ICSD

**Analysis Batch: 174173** 

	Spike	LCGD	LUGD				/01 <b>\C</b> C.		INF	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
TPH as Gasoline (C4-C13)	2.12	1.851		mg/Kg		87	77 - 128	7	16	

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 88

Lab Sample ID: LCS 570-174304/1-A			Client Sample ID: Lab Control Sample
Matrix: Solid			Prep Type: Total/NA
Analysis Batch: 174331			Prep Batch: 174304
	Snika	ורפ ורפ	%Pac

	Opino						/01 CC.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	2.12	1.956		ma/Ka		92	77 - 128	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 50 - 150

DDD

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-174304/2-A

**Matrix: Solid Analysis Batch: 174331**  Prep Type: Total/NA Prep Batch: 174304

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.11 1.755 mg/Kg 83 77 - 128 11

LCSD LCSD %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 103 50 - 150

Lab Sample ID: MB 570-174305/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 174331** 

Prep Type: Total/NA **Prep Batch: 174305** 

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 10 mg/Kg 08/25/21 13:48 08/25/21 15:38 20

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 82 50 - 150 20

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-173315/1-A Client Sample ID: Method Blank **Matrix: Solid** 

**Analysis Batch: 174778** 

MB MB

Prep Type: Silica Gel Cleanup **Prep Batch: 173315** 

Analyte Result Qualifier RL Unit Prepared Analyzed D Dil Fac TPH as Diesel Range 5.0 mg/Kg 08/21/21 08:15 08/27/21 08:20 ND TPH as Motor Oil Range ND 5.0 mg/Kg 08/21/21 08:15 08/27/21 08:20

MB MB %Recovery

Surrogate Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 90 50 - 150 08/21/21 08:15 08/27/21 08:20

Lab Sample ID: LCS 570-173315/26-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 174778** 

Prep Type: Silica Gel Cleanup **Prep Batch: 173315** 

Spike LCS LCS %Rec. Added Result Qualifier Unit Limits %Rec TPH as Motor Oil (C17-C44) 400 375.6 71 - 139 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150 89

Lab Sample ID: LCS 570-173315/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** 

**Analysis Batch: 174778** 

Prep Type: Silica Gel Cleanup **Prep Batch: 173315** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 432.6 108 76 - 126 mg/Kg

LCS LCS

%Recovery Qualifier Limits Surrogate n-Octacosane (Surr) 50 - 150 88

**Eurofins Calscience LLC** 

Project/Site: ExxonMobil ADC / 0314476040

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570-173315/27-A Matrix: Solid			(	Client Sai	•		Control		•
Analysis Batch: 174778							Prep Ba	itch: 1	73315
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	400	409.3		mg/Kg		102	71 - 139	9	20
LCSD LCSD									

Surrogate n-Octacosane (Surr)	%Recovery 86	Qualifier	Limits 50 - 150	
Lab Sample ID: LCSD 570- Matrix: Solid Analysis Batch: 174778	173315/3-A			Client Sample ID: Lab Control Sample Dup Prep Type: Silica Gel Cleanup Prep Batch: 173315

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	400	465.1		mg/Kg		116	76 - 126	7	20
LCSD I	LCSD								

Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	83		50 - 150

Lab Sample ID: 570-67093- Matrix: Solid	1 MS						P		•	e ID: S-2.5-I4 Gel Cleanup
Analysis Batch: 174778									Prep Ba	atch: 173315
-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	1400	F1	481	4240	F1	mg/Kg	<del>*</del>	581	37 - 175	

		• •		 9/.19
	MS	MS		
0			1 : : 4	
Surrogate	%Recovery	Qualifier	Limits	
n-Octacosane (Surr)	125		50 - 150	

Lab Sample ID: 570-67093-1 MS	Client Sample ID: S-2.5-I4
Matrix: Solid	Prep Type: Silica Gel Cleanup
Analysis Batch: 174778	Prep Batch: 173315

	Sample Sample	Spike	MS MS				%Rec.	
Analyte	Result Qualifier	Added	Result Qua	lifier Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	1100 F2 F1	506	819.4 F1	mg/Kg	— <u></u>	-55	71 - 174	

	MS MS	
Surrogate	%Recovery Qualifier	Limits
n-Octacosane (Surr)	<u></u>	50 - 150

Lab Sample ID: 570-67093-1 MSD Matrix: Solid							P		nt Sample be: Silica		
Analysis Batch: 174778									Prep Ba	atch: 17	73315
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	1400	F1 -	480	3564	F1	mg/Kg	<del>*</del>	441	37 - 175	17	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	95		50 - 150

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Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-67093-1 MSD Client Sample ID: S-2.5-I4 **Matrix: Solid** 

Prep Type: Silica Gel Cleanup **Analysis Batch: 174778 Prep Batch: 173315** 

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Result Qualifier Added Unit Limits RPD Limit Analyte D %Rec TPH as Motor Oil (C17-C44) 1100 F2 F1 485 1111 F2 F1 mg/Kg 71 - 174 30 20

MSD MSD Qualifier

Surrogate %Recovery Limits n-Octacosane (Surr) 99 50 - 150

**Client Sample ID: Method Blank** Lab Sample ID: MB 570-173319/1-A

**Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 175001 Prep Batch: 173319** MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range ND 5.0 mg/Kg 08/21/21 08:24 08/27/21 22:11 TPH as Motor Oil Range ND 5.0 mg/Kg 08/21/21 08:24 08/27/21 22:11

MB MB %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 08/21/21 08:24 08/27/21 22:11 n-Octacosane (Surr) 107

Lab Sample ID: LCS 570-173319/18-A

**Matrix: Solid** 

**Analysis Batch: 175001** 

Prep Type: Silica Gel Cleanup **Prep Batch: 173319** Spike LCS LCS %Rec.

Result Qualifier Added Limits Analyte Unit %Rec TPH as Motor Oil (C17-C44) 400 452.8 mg/Kg 113 71 - 139

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 99 50 - 150

Lab Sample ID: LCS 570-173319/2-A

**Matrix: Solid** 

**Analysis Batch: 175001** 

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits 400 486.4 122 76 - 126 TPH as Diesel (C10-C28) mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 106 50 - 150

Lab Sample ID: LCSD 570-173319/19-A

**Matrix: Solid Prep Type: Silica Gel Cleanup Prep Batch: 173319 Analysis Batch: 175001** LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit TPH as Motor Oil (C17-C44) 400 456.4 mg/Kg 114 71 - 139

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 100 50 - 150

**Eurofins Calscience LLC** 

Client Sample ID: Lab Control Sample

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 173319** 

Project/Site: ExxonMobil ADC / 0314476040

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570-173319/3-A Matrix: Solid Analysis Batch: 175001	73319/3-A Client Sample ID: Lab Control Sample Prep Type: Silica Gel Clea Prep Batch: 17:							anup	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	400	479.0		mg/Kg		120	76 - 126	2	20
LCSD LCSD									

%Recovery Qualifier Surrogate Limits 50 - 150 n-Octacosane (Surr) 102 Lab Sample ID: 570-67093-21 MS

**Client Sample ID: DUP Matrix: Solid** Prep Type: Silica Gel Cleanup Analysis Batch: 175001 **Prep Batch: 173319** %Rec. Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 120 485 656.9 mg/Kg 112 37 - 175 MS MS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150 94

Lab Sample ID: 570-67093-21 MS **Client Sample ID: DUP** Prep Type: Silica Gel Cleanup **Matrix: Solid Analysis Batch: 175001 Prep Batch: 173319** Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 55 490 729.3 mg/Kg 138 71 - 174 MS MS Surrogate Qualifier Limits %Recovery

50 - 150

**Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 175001 Prep Batch: 173319** Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit Limits Limit D %Rec RPD TPH as Diesel (C10-C28) 120 484 657.3 mg/Kg 112 37 - 175 0

MSD MSD %Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 96

103

n-Octacosane (Surr)

Lab Sample ID: 570-67093-21 MSD

Lab Sample ID: 570-67093-21 MSD

Prep Type: Silica Gel Cleanup **Matrix: Solid Analysis Batch: 175001 Prep Batch: 173319** Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Limit babb∆ Result Qualifier Unit D Limits RPD Analyte %Rec TPH as Motor Oil (C17-C44) 489 136 71 - 174 55 721.9 mg/Kg 20 MSD MSD

Surrogate %Recovery Qualifier Limits 50 - 150 n-Octacosane (Surr) 98

**Client Sample ID: DUP** 

**Client Sample ID: DUP** 

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

## **GC VOA**

### **Prep Batch: 171188**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-6	S-2.5-H3	Total/NA	Solid	5035	
570-67093-7	S-6-H3	Total/NA	Solid	5035	
570-67093-9	S-10-H3	Total/NA	Solid	5035	
570-67093-11	S-2.5-I2	Total/NA	Solid	5035	
570-67093-12	S-5-I2	Total/NA	Solid	5035	
570-67093-14	S-10-I2	Total/NA	Solid	5035	
570-67093-17	S-5-J3	Total/NA	Solid	5035	
570-67093-18	S-7.5-J3	Total/NA	Solid	5035	
570-67093-19	S-10-J3	Total/NA	Solid	5035	
570-67093-21	DUP	Total/NA	Solid	5035	
570-67093-22	S-2.5-J9	Total/NA	Solid	5035	
570-67093-23	S-7.5-J9	Total/NA	Solid	5035	
570-67093-24	S-10-J9	Total/NA	Solid	5035	
570-67093-25	S-12.5-J9	Total/NA	Solid	5035	
570-67093-27	S-4.5-H9	Total/NA	Solid	5035	
570-67093-29	S-10-H9	Total/NA	Solid	5035	
570-67093-32	S-5-J9	Total/NA	Solid	5035	

### **Prep Batch: 171189**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-1	S-2.5-I4	Total/NA	Solid	5035	
570-67093-2	S-5-I4	Total/NA	Solid	5035	
570-67093-3	S-7.5-I4	Total/NA	Solid	5035	
570-67093-4	S-10-l4	Total/NA	Solid	5035	
570-67093-5	S-12.5-I4	Total/NA	Solid	5035	
570-67093-8	S-7.5-H3	Total/NA	Solid	5035	
570-67093-10	S-12.5-H3	Total/NA	Solid	5035	
570-67093-13	S-7.5-I2	Total/NA	Solid	5035	
570-67093-16	S-2.5-J3	Total/NA	Solid	5035	
570-67093-20	S-12.5-J3	Total/NA	Solid	5035	
570-67093-26	S-2.5-H9	Total/NA	Solid	5035	
570-67093-31	S-14.5-J9	Total/NA	Solid	5035	
570-67093-33	S-14.5-H9	Total/NA	Solid	5035	

### **Analysis Batch: 173726**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-1	S-2.5-I4	Total/NA	Solid	NWTPH-Gx	171189
570-67093-2	S-5-I4	Total/NA	Solid	NWTPH-Gx	171189
570-67093-3	S-7.5-I4	Total/NA	Solid	NWTPH-Gx	171189
570-67093-4	S-10-l4	Total/NA	Solid	NWTPH-Gx	171189
570-67093-5	S-12.5-I4	Total/NA	Solid	NWTPH-Gx	171189
570-67093-6	S-2.5-H3	Total/NA	Solid	NWTPH-Gx	171188
570-67093-8	S-7.5-H3	Total/NA	Solid	NWTPH-Gx	171189
570-67093-10	S-12.5-H3	Total/NA	Solid	NWTPH-Gx	171189
570-67093-13	S-7.5-I2	Total/NA	Solid	NWTPH-Gx	171189
570-67093-26	S-2.5-H9	Total/NA	Solid	NWTPH-Gx	171189
570-67093-31	S-14.5-J9	Total/NA	Solid	NWTPH-Gx	171189
570-67093-33	S-14.5-H9	Total/NA	Solid	NWTPH-Gx	171189
MB 570-173726/48	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-173726/49	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173726/46	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	

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Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

## **GC VOA (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-173726/47	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 173959**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-7	S-6-H3	Total/NA	Solid	NWTPH-Gx	171188
570-67093-9	S-10-H3	Total/NA	Solid	NWTPH-Gx	171188
570-67093-11	S-2.5-I2	Total/NA	Solid	NWTPH-Gx	171188
570-67093-12	S-5-I2	Total/NA	Solid	NWTPH-Gx	171188
570-67093-14	S-10-I2	Total/NA	Solid	NWTPH-Gx	171188
570-67093-16	S-2.5-J3	Total/NA	Solid	NWTPH-Gx	171189
570-67093-20	S-12.5-J3	Total/NA	Solid	NWTPH-Gx	171189
570-67093-21	DUP	Total/NA	Solid	NWTPH-Gx	171188
MB 570-173959/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-173959/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173959/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173959/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 174124**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-18	S-7.5-J3	Total/NA	Solid	NWTPH-Gx	171188
570-67093-19	S-10-J3	Total/NA	Solid	NWTPH-Gx	171188
570-67093-22	S-2.5-J9	Total/NA	Solid	NWTPH-Gx	171188
570-67093-23	S-7.5-J9	Total/NA	Solid	NWTPH-Gx	171188
570-67093-24	S-10-J9	Total/NA	Solid	NWTPH-Gx	171188
570-67093-25	S-12.5-J9	Total/NA	Solid	NWTPH-Gx	171188
570-67093-27	S-4.5-H9	Total/NA	Solid	NWTPH-Gx	171188
570-67093-29	S-10-H9	Total/NA	Solid	NWTPH-Gx	171188
570-67093-32	S-5-J9	Total/NA	Solid	NWTPH-Gx	171188
MB 570-174124/40	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174124/37	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174124/38	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 174173**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-17	S-5-J3	Total/NA	Solid	NWTPH-Gx	171188
MB 570-174173/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174173/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174173/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Prep Batch: 174304**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-174304/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-174304/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

#### **Prep Batch: 174305**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-15	S-12.5-I2	Total/NA	Solid	5030C	
570-67093-30	S-12.5-H9	Total/NA	Solid	5030C	
MB 570-174305/1-A	Method Blank	Total/NA	Solid	5030C	

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Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

## **GC VOA**

### **Analysis Batch: 174331**

Lab Sample ID 570-67093-15	Client Sample ID S-12.5-I2	Prep Type Total/NA	Matrix Solid	Method NWTPH-Gx	Prep Batch 174305
570-67093-30	S-12.5-H9	Total/NA	Solid	NWTPH-Gx	174305
MB 570-174305/1-A	Method Blank	Total/NA	Solid	NWTPH-Gx	174305
LCS 570-174304/1-A	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	174304
LCSD 570-174304/2-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	174304

## **GC Semi VOA**

### **Prep Batch: 173315**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-1	S-2.5-I4	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-2	S-5-14	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-3	S-7.5-14	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-4	S-10-I4	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-5	S-12.5-I4	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-6	S-2.5-H3	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-7	S-6-H3	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-8	S-7.5-H3	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-9	S-10-H3	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-10	S-12.5-H3	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-11	S-2.5-I2	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-12	S-5-I2	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-13	S-7.5-I2	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-14	S-10-I2	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-15	S-12.5-I2	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-16	S-2.5-J3	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-17	S-5-J3	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-18	S-7.5-J3	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-19	S-10-J3	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-20	S-12.5-J3	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173315/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173315/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173315/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173315/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173315/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-1 MS	S-2.5-I4	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-1 MS	S-2.5-I4	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-1 MSD	S-2.5-I4	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-1 MSD	S-2.5-I4	Silica Gel Cleanup	Solid	3550C SGC	

## **Prep Batch: 173319**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-21	DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-22	S-2.5-J9	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-23	S-7.5-J9	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-24	S-10-J9	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-25	S-12.5-J9	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-26	S-2.5-H9	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-27	S-4.5-H9	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-29 - DL	S-10-H9	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-30	S-12.5-H9	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

## GC Semi VOA (Continued)

### Prep Batch: 173319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-31	S-14.5-J9	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-32	S-5-J9	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-33	S-14.5-H9	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173319/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173319/18-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173319/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173319/19-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173319/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-21 MS	DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-21 MS	DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-21 MSD	DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-21 MSD	DUP	Silica Gel Cleanup	Solid	3550C SGC	

### **Analysis Batch: 174778**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-1	S-2.5-I4	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-2	S-5-14	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-3	S-7.5-I4	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
MB 570-173315/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
LCS 570-173315/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
LCS 570-173315/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
LCSD 570-173315/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
LCSD 570-173315/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-1 MS	S-2.5-I4	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-1 MS	S-2.5-I4	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-1 MSD	S-2.5-I4	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-1 MSD	S-2.5-I4	Silica Gel Cleanup	Solid	NWTPH-Dx	173315

### **Analysis Batch: 175001**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-4	S-10-I4	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-5	S-12.5-I4	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-6	S-2.5-H3	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-7	S-6-H3	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-8	S-7.5-H3	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-9	S-10-H3	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-10	S-12.5-H3	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-11	S-2.5-I2	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-13	S-7.5-I2	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-14	S-10-I2	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-15	S-12.5-I2	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-16	S-2.5-J3	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-17	S-5-J3	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-19	S-10-J3	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-20	S-12.5-J3	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-21	DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-22	S-2.5-J9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-26	S-2.5-H9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-30	S-12.5-H9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-31	S-14.5-J9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-33	S-14.5-H9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319

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Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

## GC Semi VOA (Continued)

### **Analysis Batch: 175001 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-173319/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
LCS 570-173319/18-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
LCS 570-173319/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
LCSD 570-173319/19-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
LCSD 570-173319/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-21 MS	DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-21 MS	DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-21 MSD	DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-21 MSD	DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173319

### **Analysis Batch: 175154**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-12	S-5-I2	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-18	S-7.5-J3	Silica Gel Cleanup	Solid	NWTPH-Dx	173315
570-67093-23	S-7.5-J9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-24	S-10-J9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-25	S-12.5-J9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-27	S-4.5-H9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319
570-67093-32	S-5-J9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319

### **Analysis Batch: 175226**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-29 - DL	S-10-H9	Silica Gel Cleanup	Solid	NWTPH-Dx	173319

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-I4

Date Collected: 08/11/21 07:50 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.789 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC22		1	5 g	5 mL	173726	08/24/21 18:59	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174778	08/27/21 11:19	UJ3K	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-5-I4 Lab Sample ID: 570-67093-2 Date Collected: 08/11/21 07:55 **Matrix: Solid** 

Date Received: 08/12/21 10:15

Batch Dil Initial Final Batch Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 6.812 g 5 g 171189 08/13/21 13:54 EDZ4 ECL 2 Total/NA **NWTPH-Gx** ECL 2 Analysis 5 g 5 mL 173726 08/24/21 21:07 P1R Instrument ID: GC22 Silica Gel Cleanup 3550C SGC 10.12 g 10 mL 173315 08/21/21 08:15 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 174778 08/27/21 11:39 UJ3K ECL 1 1 Instrument ID: GC50

Client Sample ID: S-7.5-I4 Lab Sample ID: 570-67093-3 Date Collected: 08/11/21 08:00 **Matrix: Solid** 

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.345 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173726	08/24/21 20:41	P1R	ECL 2
	Instrumer	nt ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174778	08/27/21 18:15	UJ3K	ECL 1
	Instrumer	nt ID: GC50								

Lab Sample ID: 570-67093-4 Client Sample ID: S-10-I4 **Matrix: Solid** 

Date Collected: 08/11/21 08:05 Date Received: 08/12/21 10:15

	Batch	Batch	Batch	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			16.286 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173726	08/24/21 20:16	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/27/21 22:31	N5Y3	ECL 1
	Instrumen	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-I4

Date Collected: 08/11/21 08:10 Date Received: 08/12/21 10:15

Lab Sample ID: 570-67093-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.621 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC22		1	5 g	5 mL	173726	08/24/21 21:32	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/27/21 22:50	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-H3 Lab Sample ID: 570-67093-6 Date Collected: 08/11/21 08:15 **Matrix: Solid** 

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.637 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	173726	08/24/21 18:08	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			9.80 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175001	08/27/21 23:10	N5Y3	ECL 1
	Instrumen	t ID: GC50								

Lab Sample ID: 570-67093-7 **Client Sample ID: S-6-H3** Date Collected: 08/11/21 08:20 **Matrix: Solid** 

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.953 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		200	5 mL	5 mL	173959	08/24/21 23:53	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/27/21 23:30	N5Y3	ECL 1
	Instrumer	t ID: GC50								

**Client Sample ID: S-7.5-H3** Lab Sample ID: 570-67093-8 Date Collected: 08/11/21 08:25 **Matrix: Solid** 

Date Received: 08/12/21 10:15

	Batch	Batch	Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.231 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173726	08/24/21 21:58	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/27/21 23:50	N5Y3	ECL 1
	Instrumen	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-H3

Date Collected: 08/11/21 08:30 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-9

Lab Sample ID: 570-67093-11

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.243 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		50	5 mL	5 mL	173959	08/24/21 22:19	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/28/21 00:09	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-12.5-H3 Lab Sample ID: 570-67093-10 Date Collected: 08/11/21 08:35 **Matrix: Solid** 

Date Received: 08/12/21 10:15

Batch Dil Initial Final Batch Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 6.153 g 5 g 171189 08/13/21 13:54 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** ECL 2 5 g 5 mL 173726 08/24/21 22:24 P1R Instrument ID: GC22 Silica Gel Cleanup 3550C SGC 9.96 g 10 mL 173315 08/21/21 08:15 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175001 08/28/21 00:30 N5Y3 ECL 1 1 Instrument ID: GC50

Client Sample ID: S-2.5-I2 Date Collected: 08/11/21 08:55

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.553 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	173959	08/24/21 22:43	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175001	08/28/21 00:49	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-I2 Lab Sample ID: 570-67093-12 **Matrix: Solid** 

Date Collected: 08/11/21 09:00 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.86 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		200	5 mL	5 mL	173959	08/25/21 00:17	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.92 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175154	08/28/21 19:42	N5Y3	ECL 1
	Instrumer	t ID: GC50								

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-I2

Date Collected: 08/11/21 09:05 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-13

**Matrix: Solid** 

Matrix: Solid

Batch Batch Dil Initial Batch Final Prepared Method **Amount** Number or Analyzed **Prep Type** Type Run **Factor Amount** Analyst Lab Total/NA 5035 171189 08/13/21 13:54 EDZ4 ECL 2 Prep 6.852 g 5 g Total/NA ECL 2 Analysis **NWTPH-Gx** 173726 08/24/21 22:49 P1R 1 5 g 5 mL Instrument ID: GC22 Silica Gel Cleanup Prep 3550C SGC 9.94 g 10 mL 173315 08/21/21 08:15 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175001 08/28/21 01:29 N5Y3 ECL 1 Instrument ID: GC50

Client Sample ID: S-10-I2 Lab Sample ID: 570-67093-14 Date Collected: 08/11/21 09:10

Date Received: 08/12/21 10:15

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA Prep 5035 7.322 g 5 mL 171188 08/13/21 13:54 EDZ4 ECL 2 Total/NA **NWTPH-Gx** Analysis 50 5 mL 5 mL 173959 08/24/21 23:29 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.13 g 10 mL 173315 08/21/21 08:15 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 175001 08/28/21 01:50 N5Y3 ECL 1 Analysis 1 Instrument ID: GC50

Client Sample ID: S-12.5-I2 Lab Sample ID: 570-67093-15 Date Collected: 08/11/21 09:15 **Matrix: Solid** 

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	10 mL	174305	08/25/21 15:01	E8ZN	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	174331	08/25/21 17:04	P1R	ECL 2
	Instrumer	nt ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/28/21 02:11	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-J3 Lab Sample ID: 570-67093-16

Date Collected: 08/11/21 09:40 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.586 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173959	08/24/21 19:35	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175001	08/28/21 02:30	N5Y3	ECL 1
	Instrumer	t ID: GC50								

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-J3

Date Collected: 08/11/21 09:45 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-17

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.846 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	174173	08/25/21 16:59	A9VE	ECL 2
	Instrumer	nt ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175001	08/28/21 02:50	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-7.5-J3 Lab Sample ID: 570-67093-18 Date Collected: 08/11/21 09:50 **Matrix: Solid** 

Date Received: 08/12/21 10:15

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 10.819 g 5 mL 171188 08/13/21 13:54 EDZ4 ECL 2 Total/NA **NWTPH-Gx** ECL 2 Analysis 100 5 mL 5 mL 174124 08/25/21 05:22 A9VE Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.20 g 10 mL 173315 08/21/21 08:15 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175154 08/28/21 20:02 N5Y3 ECL 1 10 Instrument ID: GC50

Client Sample ID: S-10-J3

Date Received: 08/12/21 10:15

Lab Sample ID: 570-67093-19 Date Collected: 08/11/21 09:55 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.16 g	5 mL	171188	08/13/21 14:17	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	174124	08/25/21 05:45	A9VE	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175001	08/28/21 03:31	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-12.5-J3 Lab Sample ID: 570-67093-20 **Matrix: Solid** 

Date Collected: 08/11/21 10:00 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.908 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173959	08/24/21 18:48	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/28/21 03:52	N5Y3	ECL 1
	Instrumer	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

**Client Sample ID: DUP** 

Date Collected: 08/11/21 10:05 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-21

Lab Sample ID: 570-67093-23

Matrix: Solid

Batch Batch Batch Dil Initial Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab Total/NA 5035 5.398 g 171188 08/13/21 14:17 ECL 2 Prep 5 mL EDZ4 Total/NA ECL 2 Analysis **NWTPH-Gx** 173959 08/24/21 23:06 P1R 50 5 mL 5 mL Instrument ID: GC57 Silica Gel Cleanup Prep 3550C SGC 10.14 g 10 mL 173319 08/21/21 08:24 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175001 08/28/21 07:36 N5Y3 ECL 1 Instrument ID: GC50

Client Sample ID: S-2.5-J9 Lab Sample ID: 570-67093-22 Date Collected: 08/11/21 10:55 Matrix: Solid

Date Received: 08/12/21 10:15

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA Prep 5035 6.211 g 5 mL 171188 08/13/21 14:17 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 250 5 mL 5 mL 174124 08/25/21 06:09 A9VE ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.12 g 10 mL 173319 08/21/21 08:24 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 175001 08/28/21 07:55 N5Y3 ECL 1 Analysis 1 Instrument ID: GC50

Client Sample ID: S-7.5-J9 Date Collected: 08/11/21 11:05

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.438 g	5 mL	171188	08/13/21 14:17	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174124	08/25/21 06:32	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	173319	08/21/21 08:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175154	08/28/21 20:23	N5Y3	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-10-J9 Lab Sample ID: 570-67093-24

Date Collected: 08/11/21 11:10 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.509 g	5 mL	171188	08/13/21 14:17	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174124	08/25/21 06:56	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173319	08/21/21 08:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175154	08/28/21 20:44	N5Y3	ECL 1
	Instrumer	t ID: GC50								

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**Matrix: Solid** 

**Matrix: Solid** 

Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-J9

Client: Cardno, Inc

Date Collected: 08/11/21 11:15 Date Received: 08/12/21 10:15 Lab Sample ID: 570-67093-25

Lab Sample ID: 570-67093-27

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.769 g	5 mL	171188	08/13/21 14:17	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		500	5 mL	5 mL	174124	08/25/21 07:43	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173319	08/21/21 08:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175154	08/28/21 21:04	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-H9 Lab Sample ID: 570-67093-26 Date Collected: 08/11/21 11:55

Date Received: 08/12/21 10:15

Batch Dil Initial Final Batch Batch Prepared **Prep Type** Method Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 7.017 g 5 g 171189 08/13/21 14:16 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** ECL 2 5 g 5 mL 173726 08/24/21 23:15 P1R Instrument ID: GC22 Silica Gel Cleanup 3550C SGC 10.15 g 10 mL 173319 08/21/21 08:24 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175001 08/28/21 09:17 N5Y3 ECL 1 Instrument ID: GC50

Client Sample ID: S-4.5-H9 Date Collected: 08/11/21 12:00

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.225 g	5 mL	171188	08/13/21 14:17	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174124	08/25/21 08:06	A9VE	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.96 g	10 mL	173319	08/21/21 08:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		50			175154	08/28/21 21:24	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-10-H9 Lab Sample ID: 570-67093-29 Matrix: Solid

Date Collected: 08/11/21 12:05 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.035 g	5 mL	171188	08/13/21 14:17	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174124	08/25/21 08:29	A9VE	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL		9.98 g	10 mL	173319	08/21/21 08:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	20			175226	08/30/21 03:44	A1W	ECL 1
	Instrumen	t ID: GC50								

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-H9

Date Collected: 08/11/21 12:15 Date Received: 08/12/21 10:15

Lab Sample ID: 570-67093-30

**Matrix: Solid** 

Batch Dil Initial Batch Batch Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor** Amount Amount Analyst Lab Total/NA 5030C 5.03 g 174305 08/25/21 15:01 E8ZN ECL 2 Prep 10 mL Total/NA ECL 2 **NWTPH-Gx** 174331 08/25/21 17:33 P1R Analysis 20 5 mL 5 mL Instrument ID: GC25 Silica Gel Cleanup Prep 3550C SGC 9.92 g 10 mL 173319 08/21/21 08:24 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175001 08/28/21 10:17 N5Y3 ECL 1 Instrument ID: GC50

Client Sample ID: S-14.5-J9 Lab Sample ID: 570-67093-31 Date Collected: 08/11/21 11:20 **Matrix: Solid** 

Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.362 g	5 g	171189	08/13/21 14:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173726	08/24/21 23:40	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173319	08/21/21 08:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/28/21 10:38	N5Y3	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-5-J9 Lab Sample ID: 570-67093-32 **Matrix: Solid** 

Date Collected: 08/11/21 11:00 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.674 g	5 mL	171188	08/13/21 14:17	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		500	5 mL	5 mL	174124	08/25/21 08:53	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.94 g	10 mL	173319	08/21/21 08:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175154	08/28/21 22:04	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-14.5-H9 Lab Sample ID: 570-67093-33

Date Collected: 08/11/21 12:20 Date Received: 08/12/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.663 g	5 g	171189	08/13/21 14:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173726	08/25/21 00:06	P1R	ECL 2
	Instrumer	it ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173319	08/21/21 08:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/28/21 11:57	N5Y3	ECL 1
	Instrumer	t ID: GC50								

**Laboratory References:** 

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

**Eurofins Calscience LLC** 

Matrix: Solid

# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

## **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-11-21

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## **Method Summary**

Client: Cardno, Inc Job ID: 570-67093-1

Project/Site: ExxonMobil ADC / 0314476040

Method	Method Description	Protocol	Laboratory	
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2	
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1	
3550C SGC	Ultrasonic Extraction	SW846	ECL 1	
5030C	Purge and Trap	SW846	ECL 2	
5035	Closed System Purge and Trap	SW846	ECL 2	

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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#### de Guia, Cecile

From: Laina Cole <laina.cole@cardno.com>
Sent: Monday, August 16, 2021 9:35 AM

**To:** de Guia, Cecile; Cam Penner-Ash; Bobby Thompson

**Subject:** RE: Eurofins Calscience sample confirmation files from 570-67093-1 ExxonMobil ADC /

0314476040

EXTERNAL EMAIL*

Hi Cecile,

We were not able to collect the S-7.5-H9 sample due to no recovery. This should have been crossed off of the COC. Please call with questions.

Thank you,

#### Laina Cole

SENIOR PROGRAM COORDINATOR | BRANCH SAFETY OFFICER CARDNO

Direct +1 206 394 7225 Office +1 800 499 8950

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108

Email laina.cole@cardno.com Web www.cardno.com

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From: Cecile de Guia < Cecile.de Guia @eurofinset.com>

Sent: Thursday, August 12, 2021 6:41 PM

To: Cam Penner-Ash <cameron.penner-ash@cardno.com>; Laina Cole <laina.cole@cardno.com>; Bobby Thompson

<robert.thompson@cardno.com>

Subject: Eurofins Calscience sample confirmation files from 570-67093-1 ExxonMobil ADC / 0314476040

Importance: High

Hello,

Attached please find the sample confirmation files for job 570-67093-1; ExxonMobil ADC / 0314476040

Please note that no sample was received for 570-67093-28 (S-7.5-H9) but was listed on the COC. Please advise. Again, per email, MS/MSD is not required but samples were marked. We will go ahead and perform the

%Moisture analysis per instruction.

Thank you.

### Cecile de Guia

Project Manager

Eurofins Calscience LLC Phone: 714-895-5494

E-mail: Cecile.deGuia@eurofinset.com

www.eurofinsus.com/env



Reference: [570-230709] Attachments: 2

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### de Guia, Cecile

From: Bobby Thompson <robert.thompson@cardno.com>

Sent: Thursday, August 26, 2021 3:34 PM

**To:** de Guia, Cecile; Laina Cole; Cam Penner-Ash

Subject: RE: ExxonMobil ADC / 0314476040 - 570-67093 NWTPH-Dx for Diesel and Motor oil

**EXTERNAL EMAIL*** 

#### Hello Cecile,

Understood on the delay for the two jobs. A lot was going on to get the ball rolling with the timely submission of samples. The 12-day TAT is acceptable for these two jobs. No need to report TPHg ahead of the other constituents.

Going forward, we hope to see the remainder of the samples reported on the requested 10-day turnaround time.

Thank you,

Bobby

#### Bobby Thompson

SENIOR PROJECT MANAGER CARDNO

Mobile +1 206 510 5855

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108

Email robert.thompson@cardno.com Web www.cardno.com

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From: de Guia, Cecile < Cecile.de Guia @eurofinset.com>

Sent: Thursday, August 26, 2021 1:36 PM

To: Bobby Thompson <robert.thompson@cardno.com>; Laina Cole <laina.cole@cardno.com>; Cam Penner-Ash

<cameron.penner-ash@cardno.com>

Subject: ExxonMobil ADC / 0314476040 - 570-67093 NWTPH-Dx for Diesel and Motor oil

Good afternoon,

Here's another job for NWTPH-Dx for Diesel and Motor oil that will be reported late. However, NWTPH-Gx for gasoline is available for reporting if you want the sample results today.

Please let me know.

I'm sorry for the delay. The lab is doing their very best to catch up.

Best regards, Cecile de Guia Project Manager

## How are we doing? Let us know!



Eurofins Calscience, LLC 7440 Lincoln Way Garden Grove, CA 92841 USA

Phone: +1 714 895 5494

Email: Cecile.deGuia@eurofinset.com Website: www.eurofinsUS.com/Calscience

Please note our adjusted schedule for Labor Day

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### de Guia, Cecile

**From:** Bobby Thompson <robert.thompson@cardno.com>

**Sent:** Wednesday, August 25, 2021 1:53 PM de Guia, Cecile; Laina Cole; Cam Penner-Ash

**Cc:** Paul Prevou

**Subject:** RE: Eurofins Calscience sample confirmation files from 570-67093-1 ExxonMobil ADC /

0314476040

EXTERNAL EMAIL*

Hello Cecile,

Yes, please use the soil from the glass jar to perform the analysis.

Thank you,

**Bobby** 

#### **Bobby Thompson**

SENIOR PROJECT MANAGER CARDNO

Mobile +1 206 510 5855

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108 Email robert.thompson@cardno.com Web www.cardno.com

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From: de Guia, Cecile < Cecile.de Guia@eurofinset.com>

Sent: Wednesday, August 25, 2021 2:45 PM

To: Laina Cole <laina.cole@cardno.com>; Bobby Thompson <robert.thompson@cardno.com>; Cam Penner-Ash

<cameron.penner-ash@cardno.com>

Cc: Paul Prevou <paul.prevou@cardno.com>

Subject: FW: Eurofins Calscience sample confirmation files from 570-67093-1 ExxonMobil ADC / 0314476040

Importance: High

Hello,

The lab just notified me that samples S-12.5-I2 (570-67093-15) and S-12.5-H9 (570-67093-30) required methanol extraction for high level concentration. The lab ran the sodium bisulfate low level TerraCore vial for these two samples

but required dilution analysis due to E flag. Compound was over the calibration range. However, the vials with Methanol were dry and cannot be used for analysis. Can we analyze the regular soil sample in glass jar instead? Please confirm. Holding time is up today.

Thank you.

Best regards, Cecile de Guia Project Manager

#### How are we doing? Let us know!



Eurofins Calscience, LLC 7440 Lincoln Way Garden Grove, CA 92841 Phone: +1 714 895 5494

From: de Guia, Cecile < <a href="mailto:Cecile.deGuia@eurofinset.com">Cecile.deGuia@eurofinset.com</a>>

Sent: Thursday, August 12, 2021 6:41 PM

To: Cameron Penner-Ash <cameron.penner-ash@cardno.com>; Laina Cole <laina.cole@cardno.com>; Bobby Thompson

<robert.thompson@cardno.com>

Subject: Eurofins Calscience sample confirmation files from 570-67093-1 ExxonMobil ADC / 0314476040

Importance: High

Hello.

Attached please find the sample confirmation files for job 570-67093-1; ExxonMobil ADC / 0314476040

Please note that no sample was received for 570-67093-28 (S-7.5-H9) but was listed on the COC. Please advise. Again, per email, MS/MSD is not required but samples were marked. We will go ahead and perform the %Moisture analysis per instruction.

Thank you.

#### Cecile de Guia

Project Manager

**Eurofins Calscience LLC** Phone: 714-895-5494

E-mail: Cecile.deGuia@eurofinset.com

www.eurofinsus.com/env



Reference: [570-230709] Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

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4.6

7440 LINCOLN WAY

Calscience GARDEN GROVE, CA 92841-1432

TEL. (714) 895-5494 FAX. (714) 894-7501

Site Name	Everett Bulk Plant				
Provide MRN for retail or AF	E for major projects				
Retail Project (MRN)					
Major Project (AFE)					
Project Name	ExxonMobil ADC / 0314476040				

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LABORATORY CLIENT						GLOB	AL ID #	#/ COE	LT LO	G CODE			
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ADDRESS: 309 South Cloverdale St	treet Unit A13					PRO	JECT (	CONTA	CT.				
CITY-	are one one					Robert Thompson							
Seattle, WA 98108								s): Pa	ul P	revo	ou, John Considine		
206-510-5855	N/A	rober	t.thomps	son@ca	rdno.com								
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SPECIAL REQUIREMENTS (ADDITIONAL C			,			1	。	2				570-67093 Chain of Custody	
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SPECIAL INSTRUCTIONS:	Communication Col Classics A.F.	o Croup rosults by	reample n	of by anal	reie mathod	┨	TPH as Gasoline	- TPH as Diesel and				*	
Required EIM and Cardno EDDs. Perf Report to: laina.cole@cardno.com, ro		is. Group results by	/ sample, m	ot by anai	ysis method.	1 2/	H as	Ηä				*	
All units in ug/L						Perform MS/MSD:	₽	ľ.					
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LAB: SAMPLE ID	Field Point Name	SAMPLII	NG	MAT-		Ę	표	달입					
USE	, total total total	DATE	TIME	RIX		Per	Ž	NWTPH_Dx -				CONTAINER TYPE	
/ S-2 5-T4	14	8/(1/2021	1750	S	4	X		X	Γ	T	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
7 8-5- 14	124		1755	S	4	X	X	X			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
3 S-75-TU	TH		0820	S	4	X	X				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
4 S-10- TU	<u>tu</u>	8/1) /2021	0805	S	4	X	X				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
S-12.5-1 4	Li		1810	S	4	X	X			+	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-pi	reserved glass jar	
B S-2 5- H3	H3		0815	S	4	X		X			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
7 S. 6 H3	143 H3		<b>384</b> 0	S	4	X	X	IX			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
S-75- H3	M3		0825	S	4	Х		X			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
8 S-10- H3	143	8/11 /2021	0830	S	4	X		X			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
10 S-12 5- HB	CH"		2835	S	4	X	<u>IX</u>	. 又	_		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
1/ S-2.5- <b>1</b> 2	12	8/[1/2021]	£ 55	S	4	X	LX	X	1	<u> </u>	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p.	reserved glass jar	
12 S-5- I2	12	8/11/2021	<i>γ</i> 930	S	4	X	X				2 Sodium Bisulfate VOAs 1 Methanol VOA, one 4oz un-p	reserved glass jar	
13 S-75- <b>12</b>	TZ	8/ (1/2021	0 qu5	S	4	X	X				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
14S-10- IZ	£2	8/[] /2021	9916	S	44	18	X	X	<u> </u>	丄	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
/ \S-12 5- IZ	132	8/11 /2021	<b>0915</b>	S	4	X	X		<u> </u>	1	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
16 S-25- 13	33		0990	S	4	X	X		L	<u> </u>	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p		
17 S-5- 13		8/11 /2021	2445	S	4	ŢΧ	X		1	<u> </u>	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p	reserved glass jar	
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19 S-10- J3	13		<i>₫</i> 955	S	4	X	ĮΔ		_	<u> </u>	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-p		
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7440 LINCOLN WAY

Calscience GARDEN GROVE, CA 92841-1432

TEL. (714) 895-5494 FAX. (714) 894-7501

Site Name	Everett Bulk Plant
Provide MRN for retail or AF	E tor major projects
Retail Project (MRN)	
Major Project (AFE)	
Project Name	ExxonMobil ADC / 0314476040

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PAGE.	7.	OF	2	

ExxonMobil Engr	Jennifer Sedlachek			Proje	ct Name			<u>L</u>	E	xxor	onMobil ADC / 0314476040					
LABORATORY CLIENT						GLOBAL ID # COELT LOG CODE:										
Cardno ADDRESS:						4	P O 0314476040, Agreement# A260441									
309 South Cloverdale Str	eet Unit A13					<b>−</b> 1	PROJECT CONTACT LAB-USE ONBY									
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TURNAROUND TIME																
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SPECIAL REQUIREMENTS (ADDITIONAL CO	STS MAY APPLY)  ARCHIVE SAMPLES U	NTTI /	1				۽ ا	NWTPH_Dx - TPH as Diesel and Motor Oil								
SPECIAL INSTRUCTIONS:						-	as Gasoline	iesel								
Required EIM and Cardno EDDs. Perfor	m Silica Gel Cleanup - 0.5 gran	ns. Group results by	/ sample, no	ot by anal	ysis method.	7	as G	as D								
Report to: laina.cole@cardno.com, robe						l g	TPH (	표								
All units in ug/L Report to: laina.cole@cardno.com, robe	et thompson@cardno.com.an	d cameron penner-a:	sh@cardno	.com		S/W	1	Ĭ.								
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LAB: SAMPLE ID	Field Point Name	DATE	TIME	MAT- RIX		erform MS/MSD	NWTPH-Gx	WTP	5		CONTAINED TOP					
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7 S-25- H9	139	8/1) /2021	1155	S	4	┲	슀		,	<u> </u>	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar					
7-18 5-45-45-49	H9		1203	s	4	忟		兌	+	$\vdash$	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar					
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<del>S-2.5</del>		8/ -/2021		-8-	*	<del>                                     </del>	ť		T		2 Godium Bigulfate V/OAs 1 Methanol VOA, one 40z un-preserved glass jar					
8-5-		8//2021-		<u>\$</u>		1	T	1			2 Sedium Risulfate VOAs, 1 Methanol VOA, one 4uz un-preserved glass jar,					
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Page 56 of 57

Client: Cardno, Inc

Job Number: 570-67093-1

Login Number: 67093 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Liao, Gineyau

for details.

**Eurofins Calscience LLC** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-67215-1

Client Project/Site: ExxonMobil/ADC / 0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Soma

Authorized for release by: 8/27/2021 9:13:47 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Cardno, Inc Project/Site: ExxonMobil/ADC / 0314476040 Laboratory Job ID: 570-67215-1

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# **Sample Summary**

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67215-1	S-2.5-R1	Solid	08/12/21 13:05	08/13/21 10:15
570-67215-2	S-5-R1	Solid	08/12/21 13:10	08/13/21 10:15
570-67215-3	S-7.5-R1	Solid	08/12/21 13:15	08/13/21 10:15
570-67215-4	S-10-R1	Solid	08/12/21 13:20	08/13/21 10:15
570-67215-5	S-12.5-R1	Solid	08/12/21 13:25	08/13/21 10:15
570-67215-6	S-2.5-Q6	Solid	08/12/21 13:45	08/13/21 10:15
570-67215-7	S-5-Q6	Solid	08/12/21 13:50	08/13/21 10:15
570-67215-8	S-7.5-Q6	Solid	08/12/21 13:55	08/13/21 10:15
570-67215-9	S-10-Q6	Solid	08/12/21 14:00	08/13/21 10:15
570-67215-10	S-12.5-Q6	Solid	08/12/21 14:05	08/13/21 10:15

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# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

#### **Qualifiers**

**GC VOA** 

Qualifier **Qualifier Description** 

S1-Surrogate recovery exceeds control limits, low biased.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

MS and/or MSD recovery exceeds control limits.

# **Glossary**

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

**DER** Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

Relative Error Ratio (Radiochemistry) RER

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points **RPD** 

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

**TNTC** Too Numerous To Count

8/27/2021

Page 4 of 25

#### Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil/ADC / 0314476040

Job ID: 570-67215-1

Job ID: 570-67215-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-67215-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/13/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174124. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174173. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-7.5-Q6 (570-67215-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-173316 and analytical batch 570-174648 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Cardno, Inc Job ID: 570-67215-1 Project/Site: ExxonMobil/ADC / 0314476040 Client Sample ID: S-2.5-R1 Lab Sample ID: 570-67215-1

Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 100 ☼ NWTPH-Gx 190 25 mg/Kg Total/NA 1300 5 ☼ NWTPH-Dx TPH as Diesel Range 32 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 640 32 mg/Kg 5 ☼ NWTPH-Dx Silica Gel Cleanup

Client Sample ID: S-5-R1 Lab Sample ID: 570-67215-2

Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.51	0.21	mg/Kg	1 ☼ NWTPH-Gx	Total/NA

Client Sample ID: S-7.5-R1 Lab Sample ID: 570-67215-3

Analyte	Result Qualific	er RL	Unit	Dil Fac [	Method	Prep Type
TPH as Gasoline (C4-C13)	1.2	0.12	mg/Kg	<u> </u>	NWTPH-Gx	Total/NA
TPH as Diesel Range	66	30	mg/Kg	<b>5</b> 3	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	220	30	mg/Kg	5 ⊀	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-R1 Lab Sample ID: 570-67215-4

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.36	0.12	mg/Kg	1 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range	63	12	mg/Kg	2 ☼	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	200	12	mg/Kg	2 ≎	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-12.5-R1 Lab Sample ID: 570-67215-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type	
TPH as Motor Oil Range	300		25	mg/Kg	2	₩	NWTPH-Dx	Silica Gel	
								Cleanup	

Client Sample ID: S-2.5-Q6 Lab Sample ID: 570-67215-6

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2100	150	mg/Kg	500	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	6000	71	mg/Kg	10	₩	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	170	71	mg/Kg	10	₩	NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-5-Q6 Lab Sample ID: 570-67215-7

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	590	70	mg/Kg	500	NWTPH-Gx	Total/NA
TPH as Diesel Range	3400	62	mg/Kg	10	☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	140	62	mg/Kg	10	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-7.5-Q6 Lab Sample ID: 570-67215-8

Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.80	0.15	mg/Kg	1 ☼ NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

**Eurofins Calscience LLC** 

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# **Detection Summary**

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

570-67215-9

Analyte	Result Qualifier	RL	Unit	Dil Fac I	Method	Prep Type
TPH as Gasoline (C4-C13)	130	56	mg/Kg	500	NWTPH-Gx	Total/NA
TPH as Diesel Range	6.3	6.1	mg/Kg	<b>1</b> 3	NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-12.5-Q6 Lab Sample ID: 570-67215-10

Analyte TPH as Gasoline (C4-C13)	Result Qualifier	RL	Unit mg/Kg		Method  NWTPH-Gx	Prep Type Total/NA
TPH as Diesel Range - RA	9.5	6.6	mg/Kg	1	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - RA	8.1	6.6	mg/Kg	1	᠅ NWTPH-Dx	Silica Gel Cleanup

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- Camarda ID: 570 67045 4

Lab Sample ID: 570-67215-1

Matrix: Solid

Job ID: 570-67215-1

<b>Client Sample</b>	ID: S-2.5-R1
Date Collected: 0	8/12/21 13:05

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northw	est - Volatile	Petroleur	n Products (GC	)				
Analyte		Qualifier	RL	Unit ma/Ka	_ <u>D</u>	Prepared	Analyzed 08/25/21 10:03	Dil Fac
TPH as Gasoline (C4-C13)	190		25	mg/Kg	±.	06/17/21 12:41	06/25/21 10:03	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		50 - 150			08/17/21 12:41	08/25/21 10:03	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1300		32	mg/Kg	<u></u>	08/21/21 08:18	08/27/21 06:37	5
TPH as Motor Oil Range	640		32	mg/Kg	☼	08/21/21 08:18	08/27/21 06:37	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150			08/21/21 08:18	08/27/21 06:37	

Client Sample ID: S-5-R1

Date Collected: 08/12/21 13:10

Lab Sample ID: 570-67215-2

Matrix: Solid

Date Received: 08/13/21 10:15

Analyte		Qualifier	m Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.51		0.21	mg/Kg	<del>-</del>	08/17/21 12:40	08/25/21 04:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150			08/17/21 12:40	08/25/21 04:58	1

Method: NWTPH-Dx - Noi	thwest - Semi-Volatile P	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.0	mg/Kg	<u></u>	08/21/21 08:18	08/27/21 06:59	1
TPH as Motor Oil Range	ND	6.0	mg/Kg	₩	08/21/21 08:18	08/27/21 06:59	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114	50 - 150			08/21/21 08:18	08/27/21 06:59	1

Client Sample ID: S-7.5-R1

Date Collected: 08/12/21 13:15

Lab Sample ID: 570-67215-3

Matrix: Solid

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - North	hwest - Volatile	Petroleur	m Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.2		0.12	mg/Kg	<del>*</del>	08/17/21 12:40	08/25/21 13:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		50 - 150			08/17/21 12:40	08/25/21 13:09	1

Method: NWTPH-Dx - North	west - Semi-Volati	ile Petroleum Product	s (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	66	30	mg/Kg	— <u></u>	08/21/21 08:18	08/27/21 08:07	5
TPH as Motor Oil Range	220	30	mg/Kg	≎	08/21/21 08:18	08/27/21 08:07	5
Surrogate n-Octacosane (Surr)	%Recovery Qua	<u>Limits</u> 50 - 150			Prepared	Analyzed 08/27/21 08:07	Dil Fac

Client: Cardno, Inc

Project/Site: ExxonMobil/ADC / 0314476040

Lab Sample ID: 570-67215-4 Client Sample ID: S-10-R1 Date Collected: 08/12/21 13:20

**Matrix: Solid** 

Job ID: 570-67215-1

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (GC)	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.36		0.12	mg/Kg	<u></u>	08/17/21 12:40	08/25/21 14:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150			08/17/21 12:40	08/25/21 14:51	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	63		12	mg/Kg	<u></u>	08/21/21 08:18	08/27/21 20:12	2
TPH as Motor Oil Range	200		12	mg/Kg	₩	08/21/21 08:18	08/27/21 20:12	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		50 - 150			08/21/21 08:18	08/27/21 20:12	2

Lab Sample ID: 570-67215-5 Client Sample ID: S-12.5-R1

Date Collected: 08/12/21 13:25 **Matrix: Solid** Date Received: 08/13/21 10:15

Method: NWTPH-Gx - North	nwest - Volatile	e Petroleui	m Products (GC	<b>(</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.58	mg/Kg	<del>*</del>	08/17/21 12:48	08/25/21 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		50 - 150			08/17/21 12:48	08/25/21 12:43	1

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produ	icts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		25	mg/Kg	<u></u>	08/21/21 08:18	08/27/21 08:50	2
TPH as Motor Oil Range	300		25	mg/Kg	☼	08/21/21 08:18	08/27/21 08:50	2
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/21/21 08:18	Analyzed 08/27/21 08:50	Dil Fac

Client Sample ID: S-2.5-Q6 Lab Sample ID: 570-67215-6 **Matrix: Solid** 

Date Collected: 08/12/21 13:45 Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwe	est - Volatile	e Petroleur	n Products (GC)	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2100		150	mg/Kg	☆	08/17/21 12:41	08/25/21 10:26	500
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	<b>Limits</b> 50 - 150			<b>Prepared</b> 08/17/21 12:41	Analyzed 08/25/21 10:26	Dil Fac 500

Method: NWTPH-Dx - North	thwest - Semi-Volatile	Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifi	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6000	71	mg/Kg	☼	08/21/21 08:18	08/27/21 19:40	10
TPH as Motor Oil Range	170	71	mg/Kg	☼	08/21/21 08:18	08/27/21 19:40	10
Surrogate	%Recovery Qualif	ier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	132	50 - 150			08/21/21 08:18	08/27/21 19:40	10

Project/Site: ExxonMobil/ADC / 0314476040

Client Sample ID: S-5-Q6

Client: Cardno, Inc

Date Collected: 08/12/21 13:50 Date Received: 08/13/21 10:15 Lab Sample ID: 570-67215-7

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum P	roducts (GC)
-----------------------------------------------------	--------------

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	590	70	mg/Kg	<del>*</del>	08/17/21 12:41	08/25/21 10:50	500

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 08/17/21 12:41 08/25/21 10:50 500 110

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3400		62	mg/Kg	— <u></u>	08/21/21 08:18	08/27/21 09:34	10
TPH as Motor Oil Range	140		62	mg/Kg	₩	08/21/21 08:18	08/27/21 09:34	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111		50 - 150			08/21/21 08:18	08/27/21 09:34	10

Client Sample ID: S-7.5-Q6 Lab Sample ID: 570-67215-8 Date Collected: 08/12/21 13:55 **Matrix: Solid** 

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Method: MAALL LI-OX - MOLLING	st - Volatile i eti oleul	ii i ioducis (GG)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	0.80	0.15	mg/Kg	— <u></u>	08/17/21 12:48	08/25/21 22:44	1	

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 7 S1-50 - 150 08/17/21 12:48 08/25/21 22:44

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	•	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.1		mg/Kg	<del>-</del>	08/21/21 08:18	08/27/21 09:56	1
TPH as Motor Oil Range	ND		6.1		mg/Kg	☆	08/21/21 08:18	08/27/21 09:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	131		50 - 150				08/21/21 08:18	08/27/21 09:56	1

Client Sample ID: S-10-Q6 Lab Sample ID: 570-67215-9 **Matrix: Solid** 

Date Collected: 08/12/21 14:00 Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Method. NWTFH-GX - NOTHI	west - voiatile Petroleur	iii Flouucis (GC	•)				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	130	56	mg/Kg	₽	08/17/21 12:41	08/25/21 11:37	500
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87	50 - 150			08/17/21 12:41	08/25/21 11:37	500

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6.3		6.1	mg/Kg	₩	08/21/21 08:18	08/27/21 10:18	1
TPH as Motor Oil Range	ND		6.1	mg/Kg	₩	08/21/21 08:18	08/27/21 10:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 121 50 - 150 08/21/21 08:18 08/27/21 10:18

# **Client Sample Results**

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

Lab Sample ID: 570-67215-10 Client Sample ID: S-12.5-Q6

Date Collected: 08/12/21 14:05 **Matrix: Solid** 

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Nortl	nwest - Volatile	e Petroleui	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	33		12	mg/Kg	<del>*</del>	08/17/21 12:41	08/25/21 12:23	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150			08/17/21 12:41	08/25/21 12:23	100

	90		30 - 130			00/11/21 12.41	00/25/21 12.25	700
Method: NWTPH-Dx - Nort Analyte		olatile Pet Qualifier	roleum Produ RL	cts (GC) - Silica Unit	Gel (	Cleanup - RA Prepared	Analyzed	Dil Fa
TPH as Diesel Range	9.5		6.6	mg/Kg	— <u></u>	08/21/21 08:18	08/27/21 15:22	
TPH as Motor Oil Range	8.1		6.6	mg/Kg	₩	08/21/21 08:18	08/27/21 15:22	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150			08/21/21 08:18	08/27/21 15:22	1

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Solid Prep Type: Total/NA** 

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-67215-1	S-2.5-R1	115	
570-67215-2	S-5-R1	79	
570-67215-3	S-7.5-R1	114	
570-67215-4	S-10-R1	94	
570-67215-5	S-12.5-R1	65	
570-67215-6	S-2.5-Q6	116	
570-67215-7	S-5-Q6	110	
570-67215-8	S-7.5-Q6	7 S1-	
570-67215-9	S-10-Q6	87	
570-67215-10	S-12.5-Q6	98	
LCS 570-174124/37	Lab Control Sample	80	
LCS 570-174173/3	Lab Control Sample	89	
LCSD 570-174124/38	Lab Control Sample Dup	91	
LCSD 570-174173/4	Lab Control Sample Dup	88	
MB 570-174124/39	Method Blank	70	
MB 570-174124/40	Method Blank	57	
MB 570-174173/5	Method Blank	79	
Surrogato Logond			
Surrogate Legend BFB = 4-Bromofluorob			

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-67215-1	S-2.5-R1	123	
570-67215-1 MS	S-2.5-R1	118	
570-67215-1 MS	S-2.5-R1	109	
570-67215-1 MSD	S-2.5-R1	118	
570-67215-1 MSD	S-2.5-R1	124	
570-67215-2	S-5-R1	114	
570-67215-3	S-7.5-R1	115	
570-67215-4	S-10-R1	104	
570-67215-5	S-12.5-R1	126	
570-67215-6	S-2.5-Q6	132	
570-67215-7	S-5-Q6	111	
570-67215-8	S-7.5-Q6	131	
570-67215-9	S-10-Q6	121	
570-67215-10 - RA	S-12.5-Q6	124	
LCS 570-173316/26-A	Lab Control Sample	113	
LCS 570-173316/2-A	Lab Control Sample	119	
LCSD 570-173316/27-A	Lab Control Sample Dup	114	
	Lab Control Sample Dup	114	
LCSD 570-173316/3-A			

Client: Cardno, Inc

Project/Site: ExxonMobil/ADC / 0314476040

Job ID: 570-67215-1

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-174124/39 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 174124

MB MB

Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 08/25/21 04:11 TPH as Gasoline (C4-C13) ND 0.25 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 50 - 150 08/25/21 04:11

Client Sample ID: Method Blank Lab Sample ID: MB 570-174124/40 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174124** 

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 08/25/21 04:35 20

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 57 50 - 150 08/25/21 04:35

**Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 570-174124/37 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174124** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.12 1.972 mg/Kg 93 77 - 128

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 80 50 - 150

Lab Sample ID: LCSD 570-174124/38 Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 174124** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Gasoline (C4-C13) 2.12 1.968 93 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150 91

Lab Sample ID: MB 570-174173/5 Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 174173** 

MB MB Result Qualifier RL D Analyte Unit Prepared Analyzed Dil Fac 0.25 TPH as Gasoline (C4-C13) ND mg/Kg 08/25/21 11:26

MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 79 50 - 150 08/25/21 11:26 4-Bromofluorobenzene (Surr)

**Prep Type: Total/NA** 

**Prep Type: Total/NA** 

Client: Cardno, Inc Job ID: 570-67215-1

LCS LCS

Project/Site: ExxonMobil/ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-174173/3

**Matrix: Solid** 

**Analysis Batch: 174173** 

Spike Result Qualifier Added Limits Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.12 1.992 mg/Kg 94 77 - 128

LCS LCS

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-174173/4

**Matrix: Solid** 

**Analysis Batch: 174173** 

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 77 - 128 TPH as Gasoline (C4-C13) 2.12 1.851 mg/Kg 87

LCSD LCSD

Surrogate %Recovery Qualifier Limits

50 - 150 4-Bromofluorobenzene (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-173316/1-A

**Matrix: Solid** 

**Analysis Batch: 174648** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 173316** 

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

%Rec.

Prep Type: Total/NA

Prep Type: Total/NA

MB MB Analyte

Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range 5.0 mg/Kg 08/21/21 08:18 08/26/21 17:15 ND TPH as Motor Oil Range ND 5.0 mg/Kg 08/21/21 08:18 08/26/21 17:15

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 115 50 - 150 08/21/21 08:18 08/26/21 17:15

Lab Sample ID: LCS 570-173316/26-A

**Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 174648 Prep Batch: 173316** Spike LCS LCS %Rec.

Added Result Qualifier Unit Limits %Rec TPH as Motor Oil (C17-C44) 400 404.5 101 71 - 139 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150 113

Lab Sample ID: LCS 570-173316/2-A

**Matrix: Solid** 

**Analysis Batch: 174648** 

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup **Prep Batch: 173316** 

%Rec.

**Client Sample ID: Lab Control Sample** 

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 76 - 126 456.2 mg/Kg 114

LCS LCS

%Recovery Qualifier Limits Surrogate n-Octacosane (Surr) 50 - 150 119

**Eurofins Calscience LLC** 

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

n-Octacosane (Surr)

Lab Sample ID: 570-67215-1 MS

n-Octacosane (Surr)

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

114

109

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 174648	0-173316/27-A				(	Client Sar	•		Control : be: Silica : Prep Ba	Gel Cle	anup
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)			400	407.6		mg/Kg		102	71 - 139	1	20
	LCSD L	LCSD									
Surrogate	%Recovery (	Qualifier	Limits								

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 174648	)-173316/3-A				(	Client Sa	•		Control ce: Silica Prep Ba	Gel Čle	anup
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)			400	459.2		mg/Kg		115	76 - 126	NaN	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	114		50 - 150								

50 - 150

Lab Sample ID: 570-6721	5-1 MS							Clien	it Sample	ID: S-2.5-R1
Matrix: Solid							P	rep Ty	pe: Silica	<b>Gel Cleanup</b>
Analysis Batch: 174648									Prep B	atch: 173316
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	1500	F1	504	2292		mg/Kg	≎	166	37 - 175	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	118		50 - 150							

Matrix: Solid							P	rep Typ	oe: Silica	Gel Cleanup
Analysis Batch: 174648									Prep B	atch: 173316
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	1200	F1	514	1925		mg/Kg	— <u>~</u>	139	71 - 174	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

50 - 150

Lab Sample ID: 570-67219 Matrix: Solid Analysis Batch: 174648	5-1 MSD						P		t Sample be: Silica Prep Ba	Gel Cle	anup
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	1500	F1	506	2378	F1	mg/Kg	<del>-</del>	182	37 - 175	4	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	118		50 - 150								

**Eurofins Calscience LLC** 

Client Sample ID: S-2.5-R1

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# **QC Sample Results**

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Lab Sample ID: 570-67215-1 MSD

**Matrix: Solid** 

Analyte

**Analysis Batch: 174648** 

TPH as Motor Oil (C17-C44)

Client Sample ID: S-2.5-R1 Prep Type: Silica Gel Cleanup

	1 31	Prep Ba		•
		%Rec.		RPD
D	%Rec	Limits	RPD	Limit

Result Qualifier Added Result Qualifier Unit 1200 F1 513 2234 F1 ✡ 20 mg/Kg 200 71 - 174 15

MSD MSD

MSD MSD

Sample Sample

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 124 50 - 150

# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

# **GC VOA**

# **Prep Batch: 172029**

<b>Lab Sample ID</b> 570-67215-2	Client Sample ID S-5-R1	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
570-67215-3	S-7.5-R1	Total/NA	Solid	5035	
570-67215-4	S-10-R1	Total/NA	Solid	5035	
570-67215-5	S-12.5-R1	Total/NA	Solid	5035	
570-67215-8	S-7.5-Q6	Total/NA	Solid	5035	

# **Prep Batch: 172030**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67215-1	S-2.5-R1	Total/NA	Solid	5035	<u> </u>
570-67215-6	S-2.5-Q6	Total/NA	Solid	5035	
570-67215-7	S-5-Q6	Total/NA	Solid	5035	
570-67215-9	S-10-Q6	Total/NA	Solid	5035	
570-67215-10	S-12.5-Q6	Total/NA	Solid	5035	

# **Analysis Batch: 174124**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67215-1	S-2.5-R1	Total/NA	Solid	NWTPH-Gx	172030
570-67215-2	S-5-R1	Total/NA	Solid	NWTPH-Gx	172029
570-67215-6	S-2.5-Q6	Total/NA	Solid	NWTPH-Gx	172030
570-67215-7	S-5-Q6	Total/NA	Solid	NWTPH-Gx	172030
570-67215-9	S-10-Q6	Total/NA	Solid	NWTPH-Gx	172030
570-67215-10	S-12.5-Q6	Total/NA	Solid	NWTPH-Gx	172030
MB 570-174124/39	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-174124/40	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174124/37	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174124/38	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

# **Analysis Batch: 174173**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67215-3	S-7.5-R1	Total/NA	Solid	NWTPH-Gx	172029
570-67215-4	S-10-R1	Total/NA	Solid	NWTPH-Gx	172029
570-67215-5	S-12.5-R1	Total/NA	Solid	NWTPH-Gx	172029
570-67215-8	S-7.5-Q6	Total/NA	Solid	NWTPH-Gx	172029
MB 570-174173/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174173/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174173/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

# **GC Semi VOA**

### **Prep Batch: 173316**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67215-1	S-2.5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-2	S-5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-3	S-7.5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-4	S-10-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-5	S-12.5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-6	S-2.5-Q6	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-7	S-5-Q6	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-8	S-7.5-Q6	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-9	S-10-Q6	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-10 - RA	S-12.5-Q6	Silica Gel Cleanup	Solid	3550C SGC	

**Eurofins Calscience LLC** 

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# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

# GC Semi VOA (Continued)

# Prep Batch: 173316 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-173316/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173316/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173316/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173316/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173316/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-1 MS	S-2.5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-1 MS	S-2.5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-1 MSD	S-2.5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-1 MSD	S-2.5-R1	Silica Gel Cleanup	Solid	3550C SGC	

# **Analysis Batch: 174648**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67215-1	S-2.5-R1	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-2	S-5-R1	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-3	S-7.5-R1	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-5	S-12.5-R1	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-7	S-5-Q6	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-8	S-7.5-Q6	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-9	S-10-Q6	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-10 - RA	S-12.5-Q6	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
MB 570-173316/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
LCS 570-173316/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
LCS 570-173316/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
LCSD 570-173316/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
LCSD 570-173316/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-1 MS	S-2.5-R1	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-1 MS	S-2.5-R1	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-1 MSD	S-2.5-R1	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-1 MSD	S-2.5-R1	Silica Gel Cleanup	Solid	NWTPH-Dx	173316

# **Analysis Batch: 174778**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67215-4	S-10-R1	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-6	S-2.5-Q6	Silica Gel Cleanup	Solid	NWTPH-Dx	173316

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# **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

Client Sample ID: S-2.5-R1

Date Collected: 08/12/21 13:05 Date Received: 08/13/21 10:15 Lab Sample ID: 570-67215-1

Lab Sample ID: 570-67215-2

Lab Sample ID: 570-67215-3

Lab Sample ID: 570-67215-4

**Matrix: Solid** 

**Matrix: Solid** 

Matrix: Solid

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.426 g	5 mL	172030	08/17/21 12:41	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		100	5 mL	5 mL	174124	08/25/21 10:03	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			174648	08/27/21 06:37	A1W	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-5-R1

Date Collected: 08/12/21 13:10

Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.179 g	5 g	172029	08/17/21 12:40	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	174124	08/25/21 04:58	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 06:59	A1W	ECL 1
	Instrumer	t ID: GC48								

**Client Sample ID: S-7.5-R1** Date Collected: 08/12/21 13:15

Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.82 g	5 g	172029	08/17/21 12:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174173	08/25/21 13:09	A9VE	ECL 2
	Instrumer	nt ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			174648	08/27/21 08:07	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-R1

Date Collected: 08/12/21 13:20

Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.032 g	5 g	172029	08/17/21 12:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174173	08/25/21 14:51	A9VE	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			174778	08/27/21 20:12	UJ3K	ECL 1
	Instrumen	t ID: GC50								

**Eurofins Calscience LLC** 

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Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

Client Sample ID: S-12.5-R1

Client: Cardno, Inc

Date Collected: 08/12/21 13:25 Date Received: 08/13/21 10:15 Lab Sample ID: 570-67215-5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.407 g	5 g	172029	08/17/21 12:48	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC22		1	5 g	5 mL	174173	08/25/21 12:43	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.91 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			174648	08/27/21 08:50	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-2.5-Q6 Lab Sample ID: 570-67215-6 Date Collected: 08/12/21 13:45 **Matrix: Solid** 

Date Received: 08/13/21 10:15

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 6.062 g 5 mL 172030 08/17/21 12:41 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** ECL 2 500 5 mL 5 mL 174124 08/25/21 10:26 A9VE Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 9.97 g 10 mL 173316 08/21/21 08:18 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 174778 08/27/21 19:40 UJ3K ECL 1 10 Instrument ID: GC50

Client Sample ID: S-5-Q6

Date Collected: 08/12/21 13:50

Date Received: 08/13/21 10:15

Lab Sample ID: 570-67215-7

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.986 g	5 mL	172030	08/17/21 12:41	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174124	08/25/21 10:50	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.95 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174648	08/27/21 09:34	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-7.5-Q6 Lab Sample ID: 570-67215-8 **Matrix: Solid** 

Date Collected: 08/12/21 13:55

Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.863 g	5 g	172029	08/17/21 12:48	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174173	08/25/21 22:44	A9VE	ECL 2
	Instrumer	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			9.93 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 09:56	A1W	ECL 1
	Instrumer	t ID: GC48								

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# **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

Client Sample ID: S-10-Q6

Lab Sample ID: 570-67215-9 Date Collected: 08/12/21 14:00

**Matrix: Solid** Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13.783 g	5 mL	172030	08/17/21 12:41	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		500	5 mL	5 mL	174124	08/25/21 11:37	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 10:18	A1W	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-12.5-Q6

Date Collected: 08/12/21 14:05

Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14.469 g	5 mL	172030	08/17/21 12:41	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	174124	08/25/21 12:23	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	RA		10.09 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	RA	1			174648	08/27/21 15:22	A1W	ECL 1
	Instrumer	it ID: GC48								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Lab Sample ID: 570-67215-10

**Matrix: Solid** 

# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-67215-1

Project/Site: ExxonMobil/ADC / 0314476040

# **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-11-21

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# **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil/ADC / 0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5035	Closed System Purge and Trap	SW846	ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-67215-1

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eurofins eurofins	_	7440 LINCOLN WAY			Site Na	Name			Everett Bulk Plant	CHAIN OF CUSTODY RECORD	0
•		Calscience GARDEN GROVE, CA 92841-1432	841-1432		Províde	de MRN for re	allor	IFE for n	majorprojects	DATE: 8/12/2021	
		TEL: (714) 896-5494 FAX: (714) 894-7501	K: (714) 894-7501	ा मध्यम स्थापनार्थ	Retail Pri	Retail Project (MRN) Major Project (AFE)				PAGE OF	
ExxonMobil Engr	L	Jennifer Sedlachek			Project Name	fame	9H8G9GH9GRH9H	E	ExxonMobil ADC / 0314476040		
1 4BORATORY CLIENT:											
Cardno							GLOBAL II	GLOBAL ID #/ COELT LOG CODE	CODE:	P O 0314476040 Agreement# A2604415	
ADDRESS: 309 South Cloverdale Street Unit A13	overdale Str	eet Unit A13					PROJECT	PROJECT CONTACT		N.W.OSEDWIX.	
Seattle, WA 98108	98108						Rob	Robert Thompson	Robert Thompson	GOOLER RECEIPT	
75, 206-510-5855	0-5855	r.v. N/A	robert	thompsc	robert.thompson@cardno.com	.com	SAMPLEY	(e): L au L L	evou, soun considine	Temp≠	
TURNAROUND TIME	D24 HR	☐48 HR ☐72 HR	☐ 5 DAYS	✓ 10 DAYS	AYS				REQUES	REQUESTED ANALYSIS	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)	TTS (ADDITIONAL CC	OSTS MAY APPLY)  DARCHIVE SAMPLES UNTIL	ш /				ĐU				
SPECIAL INSTRUCTION	dio EDDs. Perfor	SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs. Perform Silles Gel Cleanup . 0.5 grams. Group results by sample, not by anal	. Group results by	ton elames	hv analveis m	veis method	lossĐ s				
Report to: laina.cole@ All units in ug/L	gcardno.com, robe	Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in ugil.				i	QSM/ ss HqT	≋ H9T ∶			
Report to: Iaina.colega	gcardno.com, rob	Report to: Jaina.cole@cardno.com, Tobert.mompsongcardno.com, and cameron.penner-ashgcardno.com	cameron.penner-ash	sh@cardno.t	om .	NO. OF CONT		KQ_H	57	570-67215 Chain of Custody	
USE SA	SAMPLEID	Field Point Name	DATE	TIME	MAT-		moha ^q Iq1WV			CONTAINER TYPE	
		FRI	8/12/2021	1735	s	4	X	K	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
7		R)	-	1310	S	4	$\stackrel{\wedge}{ imes}$	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
3 S-75- D		Z.		215	S	4	X	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
4 S-10- (2)		17.0	8/12021	320	S	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar e 4oz un-preserved glass jar	
1		Ye		202	o v	4 4	X X X	( <u>&gt;</u>	2 Sodium Bisulfate VOAs, 1 incurrency VOA, one 40z un-preserved glass jar	e 4oz un-preserved glass jar e 4oz un-breserved glass jar	
T	0	300	8/12/2021	38	0 0	4	<b>4</b> >	Į \$×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
Ы		de	Acceptance.	1355	S	4	X	. X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
- 1		98	-	447	S	4	X	<b>X</b>	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
10 8-12.5-86		46	_	1405	S	4	\ X	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	
-67-0			10000	T	þψ	4 4	1		2-Sedium Bisultata XOAs, 3-Methanol VOAs, one 402 urpresequed glassiar.	8 402 dryptocented glassiar	
27.3	Withermore the second se		0/ /2021		<b>a</b>	<i>t</i>   ¬	+		2 Couldment and array 1. Intelligation (CC), often 402 unit procedured place for	o day in meen and deserior	
64.0			8/ /2021 8/		p up	<del> </del>   4			2. Sodium Bienfiele VOAs, 1 Methanol VOA, one 4ez umpreserved glass jar.	o for unpreserved glass jar	
6-425-			8/ /2021		ф	4			2 Sodium Bisulfate VOAs, 1 Melhanol VOA, one 4oz un preserved glass ja	e des un presented ghase jet	
<del>S-2.6</del>			-12051-		ત્રે	4			Bedium Bisulfate VIOAs, 1 Methanel VOA; one 40s	<del>o for un prosencel glace jar</del>	
<del>-</del> 6-6			1 1		ф	4			8 Sodium Bicultate XOAe, 1 Methanol VOA, one 402 un-preserved glass jar	er4uz.un-preserved glass jer	Jacobs
8-7-5-			<del>-01 /2021-</del>		úþ.	4			2 Codium Bleuffets VOXs, 1 Methaniol VOX, one 4oz un-preserved glass jar.	e doz un-presenved glass-jar-	
\$	***************************************		8//2024-		ф	4			2 Sedium Bisulfale VOAs, 1 Mathanol VOA, one 402 un-preserved glass Jar	e 402 un preserved glass jar	
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E084			45054		þ						
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Client: Cardno, Inc Job Number: 570-67215-1

Login Number: 67215 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Patel, Jayesh

oroator. Fator, ouyoon		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
Γhe cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
here are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	
fultiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-67217-1

Client Project/Site: ExxonMobil ADC / 0314476040

Revision: 1

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Sonia

Authorized for release by: 9/1/2021 10:11:37 AM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# **Sample Summary**

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

570-67217-30 S-12.5-S2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67217-1	S-2.5-A6	Solid	08/12/21 07:30	08/13/21 10:15
570-67217-2	S-5-A6	Solid	08/12/21 07:35	08/13/21 10:15
570-67217-3	S-7.5-A6	Solid	08/12/21 07:40	08/13/21 10:15
570-67217-4	S-10-A6	Solid	08/12/21 07:45	08/13/21 10:15
570-67217-5	S-12.5-A6	Solid	08/12/21 07:50	08/13/21 10:15
570-67217-6	S-2.5-B9	Solid	08/12/21 09:00	08/13/21 10:15
570-67217-7	S-5-B9	Solid	08/12/21 09:05	08/13/21 10:15
570-67217-8	S-7.5-B9	Solid	08/12/21 09:10	08/13/21 10:15
570-67217-9	S-10-B9	Solid	08/12/21 09:15	08/13/21 10:15
570-67217-10	S-12.5-B9	Solid	08/12/21 09:20	08/13/21 10:15
570-67217-11	S-2.5-S4	Solid	08/12/21 10:05	08/13/21 10:15
570-67217-12	S-5-S4	Solid	08/12/21 10:10	08/13/21 10:15
570-67217-13	S-7.5-S4	Solid	08/12/21 10:15	08/13/21 10:15
570-67217-14	S-10-S4	Solid	08/12/21 10:23	08/13/21 10:15
570-67217-15	S-12.5-S4	Solid	08/12/21 10:25	08/13/21 10:15
570-67217-16	S-2.5-R5	Solid	08/12/21 10:45	08/13/21 10:15
570-67217-17	S-10-R5	Solid	08/12/21 11:00	08/13/21 10:15
570-67217-18	S-12.5-R5	Solid	08/12/21 11:05	08/13/21 10:15
570-67217-19	S-13-B9	Solid	08/12/21 09:25	08/13/21 10:15
570-67217-20	S-10-R5 DUP	Solid	08/12/21 11:10	08/13/21 10:15
570-67217-21	S-2.5-R3	Solid	08/12/21 11:40	08/13/21 10:15
570-67217-22	S-5-R3	Solid	08/12/21 11:45	08/13/21 10:15
570-67217-23	S-7.5-R3	Solid	08/12/21 11:50	08/13/21 10:15
570-67217-24	S-10-R3	Solid	08/12/21 11:55	08/13/21 10:15
570-67217-25	S-12.5-R3	Solid	08/12/21 12:00	08/13/21 10:15
570-67217-26	S-2.5-S2	Solid	08/12/21 12:20	08/13/21 10:15
570-67217-27	S-5-S2	Solid	08/12/21 12:25	08/13/21 10:15
570-67217-28	S-7.5-S2	Solid	08/12/21 12:30	08/13/21 10:15
570-67217-29	S-10-S2	Solid	08/12/21 12:35	08/13/21 10:15

Solid

08/12/21 12:40 08/13/21 10:15

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# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

#### Qualifiers

#### **GC Semi VOA**

QualifierQualifier Description4MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

#### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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### **Case Narrative**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Project/Site: EvvenMebil ADC / 0314476040

Job ID: 570-67217-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-67217-1

#### Comments

No additional comments.

#### Revision

The report being provided is a revision of the original report sent on 08/27/2021. The report (Revision 1) is being revised due to: Sample ID for DUP (570-67217-20) should have been named as S-10-R5 DUP. Revised COC is attached.

#### Receipt

The samples were received on 8/13/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 3.5° C.

#### **GC VOA**

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-173959. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174124. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174173. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: The following sample was diluted due to the nature of the sample matrix: S-5-B9 (570-67217-7). Elevated reporting limits (RLs) are provided.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174333. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174393. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174430. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-173317 and analytical batch 570-174648 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 570-67217-1

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# **Case Narrative**

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67217-1 (Continued)

**Laboratory: Eurofins Calscience LLC (Continued)** 

ID. 570 07047 4

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**Detection Summary** Client: Cardno, Inc Job ID: 570-67217-1 Project/Site: ExxonMobil ADC / 0314476040 Lab Sample ID: 570-67217-1 Client Sample ID: S-2.5-A6 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) NWTPH-Gx 55 mg/Kg 250 ☆ 520 Total/NA 7300 NWTPH-Dx TPH as Diesel Range 55 mg/Kg ₩ Silica Gel Cleanup TPH as Motor Oil Range 1600 55 mg/Kg 10 ☼ NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-5-A6 Lab Sample ID: 570-67217-2 Analyte Result Qualifier Unit Dil Fac D Method RL **Prep Type** TPH as Gasoline (C4-C13) 220 56 250 ☆ NWTPH-Gx Total/NA mg/Kg TPH as Diesel Range 1700 30 mg/Kg 5 🌣 NWTPH-Dx Silica Gel Cleanup TPH as Motor Oil Range 410 30 5 A NWTPH-Dx mg/Kg Silica Gel Cleanup Client Sample ID: S-7.5-A6 Lab Sample ID: 570-67217-3 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 450 62 mg/Kg 250 ₩ NWTPH-Gx Total/NA 6700 100 ☼ NWTPH-Dx TPH as Diesel Range 570 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 3500 570 100 ☆ NWTPH-Dx mg/Kg Silica Gel Cleanup Client Sample ID: S-10-A6 Lab Sample ID: 570-67217-4 Result Qualifier Dil Fac D Method Analyte RL Unit **Prep Type** TPH as Gasoline (C4-C13) Total/NA 5.2 0.18 ✡ NWTPH-Gx mg/Kg 1 TPH as Diesel Range 1 

□ NWTPH-Dx 8.1 6.3 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 11 6.3 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-12.5-A6 Lab Sample ID: 570-67217-5 TPH as Motor Oil Range ☼ NWTPH-Dx Silica Gel 55 9.0 mg/Kg

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.40	0.21	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	83	9.0	mg/Kg	1 ∜	NWTPH-Dx	Silica Gel
TDLL on Materia Cill Danier	F.F.	0.0	n./1/	<b>4</b> u	NA/TOLL D.	Cleanup

Cleanup Client Sample ID: S-2.5-B9 Lab Sample ID: 570-67217-6

- Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	0.60	0.21	mg/Kg			Total/NA
TPH as Diesel Range	23	5.7	mg/Kg	1	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	44	5.7	mg/Kg	1	∴ NWTPH-Dx	Silica Gel

L					Cleanup
Client Sample ID: S-5-B9				Lab Sample ID: 5	70-67217-7
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	8.0	2.5	mg/Kg	20 🔅 NWTPH-Gx	Total/NA

6.4

mg/Kg

This Detection Summary does not include radiochemical test results.

110

TPH as Diesel Range - RA

Eurofins Calscience LLC

1 ☼ NWTPH-Dx

Silica Gel Cleanup

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-B9	(Continue	d)			Lab Sample ID: 5	570-67217-7
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range - RA	150		6.4	mg/Kg	1 🌣 NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-B	39				Lab Sample ID: 5	570-67217-8
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	6.9		0.25	mg/Kg	1 × NWTPH-Gx	Total/NA
TPH as Diesel Range	89		6.2	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	60		6.2	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Comple ID: C 40 D	0				Lab Cample ID.	
Client Sample ID: S-10-B	9				Lab Sample ID: 5	0/0-6/21/-9
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	35		7.1	mg/Kg	50 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range - RA	160		6.4	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range - RA	110		6.4	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Comple ID: \$ 12 F	D0				Lob Comple ID: 57	
Client Sample ID: S-12.5-	ВЭ				Lab Sample ID: 57	0-6/21/-10
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	43		6.0	mg/Kg	50 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range - RA	150		5.8	mg/Kg	1 ♯ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - RA	120		5.8	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-S	64				Lab Sample ID: 57	70-67217-11
Analyte	Rosult	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.60	-	0.24	<u>mg/Kg</u>	1 × NWTPH-Gx	Total/NA
				99		
Client Sample ID: S-5-S4					Lab Sample ID: 57	0-6/21/-12
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.25		0.20	mg/Kg	1	Total/NA
TPH as Motor Oil Range	23		5.9	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
L						Cleanup
Client Sample ID: S-7.5-S	34				Lab Sample ID: 57	70-67217-13
No Detections.						
Client Sample ID: S-10-S4	4				Lab Sample ID: 57	70-67217-14
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.12		0.094	<u>mg/Kg</u>	1 × NWTPH-Gx	Total/NA
TPH as Diesel Range - RA	10		5.8	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
	10			פי יישייי		Cleanum

This Detection Summary does not include radiochemical test results.

180

TPH as Motor Oil Range - RA

1 ☼ NWTPH-Dx

Cleanup

Silica Gel Cleanup

9/1/2021 (Rev. 1)

5.8

mg/Kg

**Detection Summary** Client: Cardno, Inc Job ID: 570-67217-1 Project/Site: ExxonMobil ADC / 0314476040 Client Sample ID: S-12.5-S4 Lab Sample ID: 570-67217-15 Result Qualifier Unit Analyte RLDil Fac D Method **Prep Type** TPH as Motor Oil Range - RA 18 1 ☆ NWTPH-Dx 220 mg/Kg Silica Gel Cleanup Client Sample ID: S-2.5-R5 Lab Sample ID: 570-67217-16 Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 1.0 0.19 mg/Kg NWTPH-Gx Total/NA TPH as Diesel Range 7.5 5.7 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup TPH as Motor Oil Range 17 5.7 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup Lab Sample ID: 570-67217-17 Client Sample ID: S-10-R5 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) <u>100</u> ☆ NWTPH-Gx 38 16 mg/Kg Total/NA TPH as Diesel Range 140 13 mg/Kg 2 
NWTPH-Dx Silica Gel Cleanup TPH as Motor Oil Range 130 13 mg/Kg 2 A NWTPH-Dx Silica Gel Cleanup Lab Sample ID: 570-67217-18 Client Sample ID: S-12.5-R5 Result Qualifier Unit RL Dil Fac D Method Prep Type TPH as Gasoline (C4-C13) 15 5.7 50 ☆ NWTPH-Gx Total/NA mg/Kg TPH as Motor Oil Range 7.7 6.3 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-13-B9 Lab Sample ID: 570-67217-19 Analyte Result Qualifier Unit Dil Fac D Method **Prep Type** RL TPH as Gasoline (C4-C13) 89 <u>11</u> mg/Kg 50 ☆ NWTPH-Gx Total/NA 5 ☼ NWTPH-Dx TPH as Diesel Range 440 29 mg/Kg Silica Gel Cleanup 270 29 5 🌣 NWTPH-Dx TPH as Motor Oil Range mg/Kg Silica Gel Cleanup Client Sample ID: S-10-R5 DUP Lab Sample ID: 570-67217-20 Result Qualifier Unit Analyte RL Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 450 21 100 ☆ NWTPH-Gx Total/NA mq/Kq 1 ☆ NWTPH-Dx TPH as Diesel Range - RA 140 6.4 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range - RA 130 6.4 mg/Kg 1 ☼ NWTPH-Dx Silica Gel

Client Sample ID: S-2.5-R3

Lab Sample ID: 570-67217-21

Lab Sample ID: 570-67217-22

Analyte	Result Qualifier	RL	Unit	Dil Fac D M	Method	Prep Type
TPH as Gasoline (C4-C13)	0.55	0.26	mg/Kg	1	WTPH-Gx	Total/NA

# Client Sample ID: S-5-R3

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.74	0.11	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range - RA	32	6.3	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

Cleanup

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-R3 (Continued)	Lab Sample ID: 570-67217-22

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range - RA	480	6.3	mg/Kg	1	₩	NWTPH-Dx	Silica Gel
							Cleanup

Lab Sample ID: 570-67217-23 Client Sample ID: S-7.5-R3

No Detections.

Lab Sample ID: 570-67217-24 Client Sample ID: S-10-R3

No Detections.

Client Sample ID: S-12.5-R3 Lab Sample ID: 570-67217-25

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range	110	19	mg/Kg		NWTPH-Dx	Silica Gel
						Cleanup

Client Sample ID: S-2.5-S2 Lab Sample ID: 570-67217-26

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.39	0.21	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	21	6.2	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	120	6.2	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-S2 Lab Sample ID: 570-67217-27

Analyte	Result Qualifier	RL	Unit	Dil Fac [	Method	Prep Type
TPH as Gasoline (C4-C13)	0.25	0.12	mg/Kg	<u></u>	NWTPH-Gx	Total/NA
TPH as Diesel Range	15	5.9	mg/Kg	1 ⊀	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	140	5.9	mg/Kg	1 ⊀	NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-7.5-S2 Lab Sample ID: 570-67217-28

No Detections.

Client Sample ID: S-10-S2 Lab Sample ID: 570-67217-29

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	0.21	0.21	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	20	6.0	mg/Kg	1	∴ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	49	6.0	mg/Kg	1	⇔ NWTPH-Dx	Cleanup Silica Gel Cleanup

Client Sample ID: S-12.5-S2 Lab Sample ID: 570-67217-30

Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	74	14	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-A6

Date Collected: 08/12/21 07:30 Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-1

**Matrix: Solid** 

Method: NWTPH-Gx - North	nwest - Volatile	Petroleur	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	520		55	mg/Kg	<u></u>	08/17/21 15:01	08/25/21 13:10	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			08/17/21 15:01	08/25/21 13:10	250
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	hwest - Semi-V	olatile Pet	roleum Product	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7300		55	mg/Kg	— <u></u>	08/21/21 08:21	08/26/21 19:47	10
TPH as Motor Oil Range	1600		55	mg/Kg	₩	08/21/21 08:21	08/26/21 19:47	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150			08/21/21 08:21	08/26/21 19:47	10

Lab Sample ID: 570-67217-2 **Client Sample ID: S-5-A6 Matrix: Solid** 

Date Collected: 08/12/21 07:35

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - North	nwest - Volatile	e Petroleui	m Products (GC	3)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	220		56	mg/Kg	<del>*</del>	08/17/21 15:01	08/25/21 13:34	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			08/17/21 15:01	08/25/21 13:34	250

Method: NWTPH-Dx - North	nwest - Semi-V	olatile Pet	roleum Produ	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1700		30	mg/Kg	<u></u>	08/21/21 08:21	08/26/21 20:08	5
TPH as Motor Oil Range	410		30	mg/Kg	☼	08/21/21 08:21	08/26/21 20:08	5
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/21/21 08:21	Analyzed 08/26/21 20:08	Dil Fac

Lab Sample ID: 570-67217-3 Client Sample ID: S-7.5-A6 **Matrix: Solid** 

Date Collected: 08/12/21 07:40

Date Received: 08/13/21 10:15

- Volatile	e Petroleur	n Products (GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
450		62	mg/Kg	₽	08/17/21 15:01	08/25/21 13:57	250
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
57		50 - 150			08/17/21 15:01	08/25/21 13:57	250
	Result 450 %Recovery	Result Qualifier 450  %Recovery Qualifier	Result Qualifier RL 62  KRecovery Qualifier Limits	450 62 mg/Kg %Recovery Qualifier Limits	Result 450 Qualifier RL Unit D mg/Kg D  %Recovery Qualifier Limits	Result 450         Qualifier RL 62         Unit mg/Kg         D 08/17/21 15:01           %Recovery Qualifier Limits         Limits         Prepared	Result 450         Qualifier RL 62         Unit mg/Kg         D 08/17/21 15:01         Prepared 08/25/21 13:57           %Recovery Qualifier Limits         Prepared Analyzed

Method: NWTPH-Dx - Nor	thwest - Semi-Vola	atile Petroleum Produ	ucts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6700	570	mg/Kg	☆	08/21/21 08:21	08/26/21 20:29	100
TPH as Motor Oil Range	3500	570	mg/Kg	₩	08/21/21 08:21	08/26/21 20:29	100
Surrogate	%Recovery Qu	ualifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	127	50 - 150			08/21/21 08:21	08/26/21 20:29	100

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-A6

Date Collected: 08/12/21 07:45 Date Received: 08/13/21 10:15 Lab Sample ID: 570-67217-4

Matrix: Solid

Job ID: 570-67217-1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	5.2	0.18	mg/Kg	<u></u>	08/17/21 15:02	08/25/21 01:03	1

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	8.1	6.3	mg/Kg	— <u></u>	08/21/21 08:21	08/26/21 20:50	1
TPH as Motor Oil Range	11	6.3	mg/Kg	≎	08/21/21 08:21	08/26/21 20:50	1
Surrogato	%Pocovery Qualifier	l imite			Propared	Analyzod	Dil Eac

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared 08/21/21 08:21
 Analyzed 08/26/21 20:50
 Dil Fac 08/21/21 08:21

Client Sample ID: S-12.5-A6

Date Collected: 08/12/21 07:50

Lab Sample ID: 570-67217-5

Matrix: Solid

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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Analyte	Result Qualifi	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.40	0.21	mg/Kg	<del>*</del>	08/17/21 15:02	08/25/21 01:27	1

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 91
 Limits 50 - 150
 Prepared 08/17/21 15:02
 Analyzed 08/25/21 01:27
 Dil Fac 08/17/21 15:02

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	83		9.0	mg/Kg	<del></del>	08/21/21 08:21	08/26/21 21:12	1
TPH as Motor Oil Range	55		9.0	mg/Kg	☼	08/21/21 08:21	08/26/21 21:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)			50 - 150			08/21/21 08:21	08/26/21 21:12	1

Client Sample ID: S-2.5-B9

Date Collected: 08/12/21 09:00

Lab Sample ID: 570-67217-6

Matrix: Solid

Date Collected: 08/12/21 09:00 Date Received: 08/13/21 10:15

. Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

				Dil Fac
mg/Kg	≎	08/17/21 15:02	08/25/21 01:50	1
	mg/Kg	mg/Kg ☆	mg/Kg	mg/Kg

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	23		5.7	mg/Kg	<del></del>	08/21/21 08:21	08/26/21 21:33	1
TPH as Motor Oil Range	44		5.7	mg/Kg	₩	08/21/21 08:21	08/26/21 21:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared 08/21/21 08:21
 Analyzed 08/26/21 21:33
 Dil Fac 08/21/21 08:21

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-B9

Date Collected: 08/12/21 09:05 Date Received: 08/13/21 10:15 Lab Sample ID: 570-67217-7

**Matrix: Solid** 

Job ID: 570-67217-1

Method: NWTPH-Gx - Northy	vest - Volatile	<b>Petroleur</b>	n Products (G0	<b>C</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	8.0		2.5	mg/Kg	₩	08/17/21 15:01	08/26/21 12:46	20
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/17/21 15:01	Analyzed 08/26/21 12:46	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	110		6.4	mg/Kg	<u></u>	08/21/21 08:21	08/27/21 16:05	1
TPH as Motor Oil Range	150		6.4	mg/Kg	₽	08/21/21 08:21	08/27/21 16:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150			08/21/21 08:21	08/27/21 16:05	1

Lab Sample ID: 570-67217-8 **Client Sample ID: S-7.5-B9** Date Collected: 08/12/21 09:10 **Matrix: Solid** 

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.25 6.9 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 59 50 - 150 08/17/21 15:02 08/26/21 15:36

Method: NWTPH-Dx - Nort	thwest - Semi-Ve	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	89		6.2	mg/Kg	<u></u>	08/21/21 08:21	08/26/21 22:17	1
TPH as Motor Oil Range	60		6.2	mg/Kg	☼	08/21/21 08:21	08/26/21 22:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150			08/21/21 08:21	08/26/21 22:17	1

Client Sample ID: S-10-B9 Lab Sample ID: 570-67217-9 **Matrix: Solid** 

Date Collected: 08/12/21 09:15

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwe	est - Volatile	<b>Petroleur</b>	n Products (G	C)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	35		7.1	mg/Kg	≎	08/17/21 15:01	08/26/21 09:55	50
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 69	Qualifier	Limits 50 - 150			<b>Prepared</b> 08/17/21 15:01	Analyzed 08/26/21 09:55	Dil Fac

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Pe	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup - RA	<b>\</b>	
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	160	6.4	mg/Kg	☼	08/21/21 08:21	08/27/21 16:27	1
TPH as Motor Oil Range	110	6.4	mg/Kg	₩	08/21/21 08:21	08/27/21 16:27	1
Surrogate n-Octacosane (Surr)	%Recovery Qualifier				Prepared 08/21/21 08:21	Analyzed 08/27/21 16:27	Dil Fac

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-B9

Date Collected: 08/12/21 09:20 Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-10

**Matrix: Solid** 

Method: NWTPH-Gx - Northy	west - Volatile F	Petroleur	n Products (G	iC)			
Analyte	Result Q	Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	43		6.0	mg/Kg		08/26/21 10:20	50
Surrogate	%Recovery Q	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150		08/17/21 15:01	08/26/21 10:20	50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	150		5.8	mg/Kg	<u></u>	08/21/21 08:21	08/27/21 16:48	1
TPH as Motor Oil Range	120		5.8	mg/Kg	₽	08/21/21 08:21	08/27/21 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		50 - 150			08/21/21 08:21	08/27/21 16:48	1

Client Sample ID: S-2.5-S4 Lab Sample ID: 570-67217-11 **Matrix: Solid** 

Date Collected: 08/12/21 10:05

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - North	west - Volatile	e Petroleui	m Products (GC)	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.60		0.24	mg/Kg	₩	08/17/21 15:02	08/25/21 02:14	1
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	Limits 50 - 150			<b>Prepared</b> 08/17/21 15:02	Analyzed 08/25/21 02:14	Dil Fac

Method: NWTPH-Dx - Nor	thwest - Semi-Volati	ile Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.2	mg/Kg	<del>-</del>	08/21/21 08:21	08/27/21 00:05	1
TPH as Motor Oil Range	ND	6.2	mg/Kg	₩	08/21/21 08:21	08/27/21 00:05	1
Surrogate n-Octacosane (Surr)	%Recovery Qua	Limits           50 - 150			Prepared 08/21/21 08:21	Analyzed 08/27/21 00:05	Dil Fac

Lab Sample ID: 570-67217-12 Client Sample ID: S-5-S4 **Matrix: Solid** 

Date Collected: 08/12/21 10:10

Date Received: 08/13/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.25		0.20	mg/Kg	<del>*</del>	08/17/21 15:02	08/25/21 15:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150			08/17/21 15:02	08/25/21 15:17	1

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TPH as Diesel Range	ND		5.9	mg/Kg	₽	08/21/21 08:21	08/27/21 00:26	1	
TPH as Motor Oil Range	23		5.9	mg/Kg	☼	08/21/21 08:21	08/27/21 00:26	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	110		50 - 150			08/21/21 08:21	08/27/21 00:26	1	

Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-S4

Lab Sample ID: 570-67217-13 Date Collected: 08/12/21 10:15 **Matrix: Solid** 

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	0.23	mg/Kg	₽	08/17/21 15:02	08/24/21 20:22	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 99 50 - 150 08/17/21 15:02 08/24/21 20:22 4-Bromofluorobenzene (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.2	mg/Kg	<u></u>	08/21/21 08:21	08/27/21 00:47	1
TPH as Motor Oil Range	ND	6.2	mg/Kg	≎	08/21/21 08:21	08/27/21 00:47	1
S	0/Parama Ovalition	l imita			Duamanad	A a la a al	D:// E

Surrogate **%Recovery Qualifier** Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 114 50 - 150 08/21/21 08:21 08/27/21 00:47

Client Sample ID: S-10-S4

Lab Sample ID: 570-67217-14 Date Collected: 08/12/21 10:23 **Matrix: Solid** 

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.12	0.094	mg/Kg	₩	08/17/21 15:02	08/25/21 15:42	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 80 50 - 150 08/17/21 15:02 08/25/21 15:42

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - RA

			( /				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	10	5.8	mg/Kg	<u></u>	08/21/21 08:21	08/27/21 17:10	1
TPH as Motor Oil Range	180	5.8	mg/Kg	₩	08/21/21 08:21	08/27/21 17:10	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116	50 - 150			08/21/21 08:21	08/27/21 17:10	1

Client Sample ID: S-12.5-S4 Lab Sample ID: 570-67217-15

Date Collected: 08/12/21 10:25 Date Received: 08/13/21 10:15

**Matrix: Solid** 

Method: NWTPH-Gy - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	0.97	mg/Kg	₽	08/17/21 15:02	08/25/21 19:30	1

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 50 - 150 4-Bromofluorobenzene (Surr) 52 08/17/21 15:02 08/25/21 19:30

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		18	mg/Kg	<del></del>	08/21/21 08:21	08/27/21 17:32	1
TPH as Motor Oil Range	220		18	mg/Kg	₩	08/21/21 08:21	08/27/21 17:32	1
0	0/5	0 1:0				5	A I	D# 5

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/21/21 08:21 08/27/21 17:32 123

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-R5

Date Collected: 08/12/21 10:45

Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-16

Matrix: Solid

Job ID: 570-67217-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Result Qualifier Unit D Analyte Prepared Analyzed Dil Fac 0.19 08/17/21 15:02 08/25/21 16:33 TPH as Gasoline (C4-C13) mg/Kg 1.0 Surrogate

4-Bromofluorobenzene (Surr)

%Recovery Qualifier 96

Limits 50 - 150 Prepared Analyzed

Dil Fac 08/17/21 15:02 08/25/21 16:33

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup D

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 7.5 5.7 mg/Kg 08/21/21 08:21 08/27/21 01:53 5.7 mg/Kg 08/21/21 08:21 08/27/21 01:53 **TPH as Motor Oil Range** 17

%Recovery Qualifier Limits Surrogate 50 - 150 n-Octacosane (Surr) 113

Prepared Analyzed Dil Fac 08/21/21 08:21 08/27/21 01:53

Lab Sample ID: 570-67217-17

Client Sample ID: S-10-R5

Date Collected: 08/12/21 11:00 Date Received: 08/13/21 10:15

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac 08/17/21 15:01 08/26/21 13:39 TPH as Gasoline (C4-C13) 38 16 mg/Kg 100

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 62 50 - 150 08/17/21 15:01 08/26/21 13:39 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 140 13 mg/Kg 08/21/21 08:21 08/27/21 02:14 2 **TPH as Motor Oil Range** 130 13 mg/Kg 08/21/21 08:21 08/27/21 02:14 2 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac

50 - 150

Client Sample ID: S-12.5-R5

n-Octacosane (Surr)

Date Collected: 08/12/21 11:05 Date Received: 08/13/21 10:15 Lab Sample ID: 570-67217-18

08/21/21 08:21 08/27/21 02:14

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

107

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 15 mg/Kg 08/17/21 15:01 08/26/21 10:45

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 08/17/21 15:01 08/26/21 10:45 50 - 150 4-Bromofluorobenzene (Surr) 58 50

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 6.3 mg/Kg 08/21/21 08:21 08/27/21 02:36 6.3 08/21/21 08:21 08/27/21 02:36 **TPH as Motor Oil Range** 7.7 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/21/21 08:21 08/27/21 02:36 112

Job ID: 570-67217-1 Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-13-B9

Date Collected: 08/12/21 09:25 Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-19

Analyzed

D

Prepared

Matrix: Solid

Dil Fac

Method: NWTPH-Gx - Northw	west - Volatile Petroleum Products (GC)					
Analyte	Result Qualifier	RL	Unit			
TDU on Concline (C4 C42)			malka			

08/17/21 15:01 08/26/21 11:11 mg/Kg TPH as Gasoline (C4-C13) 89 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 50 - 150 08/17/21 15:01 08/26/21 11:11 4-Bromofluorobenzene (Surr) 59

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	440		29	mg/Kg	<u></u>	08/21/21 08:21	08/27/21 02:57	5
TPH as Motor Oil Range	270		29	mg/Kg	₩	08/21/21 08:21	08/27/21 02:57	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		50 - 150			08/21/21 08:21	08/27/21 02:57	5

Client Sample ID: S-10-R5 DUP

Date Collected: 08/12/21 11:10

Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-20

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Dil Fac TPH as Gasoline (C4-C13) 450 mg/Kg 08/17/21 15:01 08/26/21 11:37 100

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 65 50 - 150 08/17/21 15:01 08/26/21 11:37 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - RA

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	140	6.4	mg/Kg	<u></u>	08/21/21 08:21	08/27/21 17:53	1
TPH as Motor Oil Range	130	6.4	mg/Kg	₩	08/21/21 08:21	08/27/21 17:53	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99	50 - 150			08/21/21 08:21	08/27/21 17:53	1

Client Sample ID: S-2.5-R3 Lab Sample ID: 570-67217-21

Date Collected: 08/12/21 11:40

Date Received: 08/13/21 10:15

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.55 0.26 mg/Kg 08/17/21 15:02 08/25/21 18:16 Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 08/17/21 15:02 08/25/21 18:16 4-Bromofluorobenzene (Surr) 74 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.5	mg/Kg	☼	08/21/21 08:18	08/27/21 11:01	1
TPH as Motor Oil Range	ND		6.5	mg/Kg	☼	08/21/21 08:18	08/27/21 11:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared 00/04/04/09	Analyzed	Dil Fac

08/21/21 08:18 08/27/21 11:01 n-Octacosane (Surr) 109 50 - 150

Client Sample ID: S-5-R3 Date Collected: 08/12/21 11:45

Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-22

Matrix: Solid

Job ID: 570-67217-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Unit D Analyte Result Qualifier Prepared Analyzed Dil Fac 0.11 08/17/21 15:02 08/26/21 09:29 TPH as Gasoline (C4-C13) mg/Kg 0.74

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 08/17/21 15:02 08/26/21 09:29 67

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - RA

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 32 6.3 mg/Kg 6.3 mg/Kg 08/21/21 08:18 08/27/21 15:43 **TPH as Motor Oil Range** 480

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 50 - 150 08/21/21 08:18 08/27/21 15:43 n-Octacosane (Surr) 123

Client Sample ID: S-7.5-R3 Lab Sample ID: 570-67217-23

Date Collected: 08/12/21 11:50 **Matrix: Solid** 

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Dil Fac 08/17/21 15:02 08/26/21 09:04 TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.14 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 52 50 - 150 08/17/21 15:02 08/26/21 09:04

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 5.9 mg/Kg 08/21/21 08:18 08/27/21 11:44 TPH as Motor Oil Range ND 5.9 mg/Kg %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 122 50 - 150 08/21/21 08:18 08/27/21 11:44

Client Sample ID: S-10-R3 Lab Sample ID: 570-67217-24

Date Collected: 08/12/21 11:55 Matrix: Solid

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.11 mg/Kg 08/17/21 15:02 08/26/21 08:38

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 50 - 150 08/17/21 15:02 08/26/21 08:38 4-Bromofluorobenzene (Surr) 81

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RLUnit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 5.9 mg/Kg 08/21/21 08:18 08/27/21 12:06 ND 5.9 08/21/21 08:18 08/27/21 12:06 TPH as Motor Oil Range mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/21/21 08:18 08/27/21 12:06 90

Client Sample ID: S-12.5-R3 Lab Sample ID: 570-67217-25

Date Collected: 08/12/21 12:00
Date Received: 08/13/21 10:15

Matrix: Solid

Job ID: 570-67217-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		1.3	mg/Kg	₩	08/17/21 15:02	08/25/21 18:41	1
Survey water	9/ <b>D</b> agayamı	Ovalifian	Limito			Duamanad	Analyzad	Dil Foo

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		19	mg/Kg	<u></u>	08/21/21 08:18	08/27/21 12:27	1
TPH as Motor Oil Range	110		19	mg/Kg	₩	08/21/21 08:18	08/27/21 12:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared 08/21/21 08:18
 Analyzed 08/27/21 12:27
 Dil Fac 08/21/21 08:18

Client Sample ID: S-2.5-S2

Date Collected: 08/12/21 12:20

Lab Sample ID: 570-67217-26

Matrix: Solid

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.39	0.21	mg/Kg	₽	08/17/21 15:02	08/25/21 19:07	1

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 82
 Limits 50 - 150
 Prepared 08/17/21 15:02
 Analyzed 08/25/21 19:07
 Dil Fac 08/17/21 15:02

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

			(00)				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	21	6.2	mg/Kg	<del>-</del>	08/21/21 08:18	08/27/21 12:49	1
TPH as Motor Oil Range	120	6.2	mg/Kg	☼	08/21/21 08:18	08/27/21 12:49	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122	50 - 150			08/21/21 08:18	08/27/21 12:49	1

Client Sample ID: S-5-S2

Lab Sample ID: 570-67217-27

Date Collected: 08/12/21 12:25

Date Received: 08/13/21 10:15

Method: NWTPH-Gx	Mandana A Malat	la Datualacesa Dua	-l4- (OO)
MATROA: NIVI DH.(=V.	- NIOPTHWAST - VAIST	IID DATRAIDIIM DRA	MIICTE IIII

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.25		0.12	mg/Kg	<del>*</del>	08/17/21 15:02	08/25/21 19:58	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	140		5.9	mg/Kg	₩	08/21/21 08:18	08/27/21 13:11	1
TPH as Diesel Range	15		5.9	mg/Kg	₩	08/21/21 08:18	08/27/21 13:11	1
Analyte	Result	Qualifier	KL	Unit	ט	Prepared	Analyzea	DII Fac

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared 08/21/21 08:18
 Analyzed 08/27/21 13:11
 Dil Fac 08/27/21 13:11

**Matrix: Solid** 

Job ID: 570-67217-1

**Matrix: Solid** 

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: 570-67217-28 Client Sample ID: S-7.5-S2

Date Collected: 08/12/21 12:30 Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	KL	Unit	ט	Prepared	Anaiyzed	DII Fac	
TPH as Gasoline (C4-C13)	ND		0.20	mg/Kg	☼	08/17/21 15:02	08/25/21 20:23	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	50		50 - 150			08/17/21 15:02	08/25/21 20:23	1	

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

			. ( )				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	5.8	mg/Kg	<u></u>	08/21/21 08:18	08/27/21 13:32	1
TPH as Motor Oil Range	ND	5.8	mg/Kg	☼	08/21/21 08:18	08/27/21 13:32	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125	50 - 150			08/21/21 08:18	08/27/21 13:32	1

Client Sample ID: S-10-S2 Lab Sample ID: 570-67217-29 **Matrix: Solid** 

Date Collected: 08/12/21 12:35 Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.21		0.21	mg/Kg	₩	08/17/21 15:02	08/25/21 20:49	1
Surre mate	9/ <b>D</b> agayamı	Ovalifian	Limita			Dramarad	Amalumad	Dil 500

Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 83 50 - 150 08/17/21 15:02 08/25/21 20:49

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

mounous states as a state of the state of th	or committee or		io (oo) oillou i	•	rounap		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	20	6.0	mg/Kg	<del>*</del>	08/21/21 08:18	08/27/21 13:55	1
TPH as Motor Oil Range	49	6.0	mg/Kg	☆	08/21/21 08:18	08/27/21 13:55	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	126	50 - 150			08/21/21 08:18	08/27/21 13:55	1

Client Sample ID: S-12.5-S2 Lab Sample ID: 570-67217-30

Date Collected: 08/12/21 12:40

Date Received: 08/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petrole	access Dua decata	100
I Welliou, INVVIENIUX - NOILIIWESL - VOIALIIE FELIOIE	eum Products	(66)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.50	mg/Kg	₩	08/17/21 15:02	08/25/21 19:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

08/17/21 15:02 08/25/21 19:32 4-Bromofluorobenzene (Surr) 65 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		14	mg/Kg	<u></u>	08/21/21 08:18	08/27/21 14:16	1
TPH as Motor Oil Range	74		14	mg/Kg	₩	08/21/21 08:18	08/27/21 14:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 124 50 - 150 08/21/21 08:18 08/27/21 14:16

**Matrix: Solid** 

## **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

-			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-67217-1	S-2.5-A6	69	
570-67217-2	S-5-A6	72	
570-67217-3	S-7.5-A6	57	
570-67217-4	S-10-A6	61	
570-67217-5	S-12.5-A6	91	
570-67217-6	S-2.5-B9	78	
570-67217-7	S-5-B9	62	
570-67217-8	S-7.5-B9	59	
570-67217-9	S-10-B9	69	
570-67217-10	S-12.5-B9	70	
570-67217-11	S-2.5-S4	76	
570-67217-12	S-5-S4	84	
570-67217-13	S-7.5-S4	99	
570-67217-14	S-10-S4	80	
570-67217-15	S-12.5-S4	52	
570-67217-16	S-2.5-R5	96	
570-67217-10	S-10-R5	62	
570-67217-17	S-12.5-R5	58	
	S-13-B9	59	
570-67217-19	S-10-R5 DUP	65	
570-67217-20			
570-67217-21	S-2.5-R3	74	
570-67217-22	S-5-R3	67	
570-67217-23	S-7.5-R3	52	
570-67217-24	S-10-R3	81	
570-67217-25	S-12.5-R3	64	
570-67217-26	S-2.5-S2	82	
570-67217-27	S-5-S2	77	
570-67217-28	S-7.5-S2	50	
570-67217-29	S-10-S2	83	
570-67217-30	S-12.5-S2	65	
LCS 570-173959/3	Lab Control Sample	112	
LCS 570-174124/37	Lab Control Sample	80	
LCS 570-174173/3	Lab Control Sample	89	
LCS 570-174333/4	Lab Control Sample	98	
LCS 570-174393/36	Lab Control Sample	89	
LCS 570-174430/33	Lab Control Sample	90	
LCSD 570-173959/4	Lab Control Sample Dup	91	
LCSD 570-174124/38	Lab Control Sample Dup	91	
LCSD 570-174173/4	Lab Control Sample Dup	88	
LCSD 570-174333/5	Lab Control Sample Dup	87	
LCSD 570-174393/37	Lab Control Sample Dup	92	
LCSD 570-174430/39	Lab Control Sample Dup	90	
MB 570-173959/5	Method Blank	77	
MB 570-174124/40	Method Blank	57	
MB 570-174173/5	Method Blank	79	
MB 570-174173/6	Method Blank	63	
MB 570-174333/6	Method Blank	84	
MB 570-174393/38	Method Blank	80	
MB 570-174393/39	Method Blank	63	

## **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA** 

tance Limits)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

-			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	r droom currogate recovery (recorptance zimite)
Lab Sample ID	Client Sample ID	(50-150)	
570-67215-A-1-B MS	Matrix Spike	118	
570-67215-A-1-C MSD	Matrix Spike Duplicate	118	
570-67215-A-1-E MS	Matrix Spike	109	
570-67215-A-1-F MSD	Matrix Spike Duplicate	124	
570-67217-1	S-2.5-A6	123	
570-67217-1 MS	S-2.5-A6	106	
570-67217-1 MS	S-2.5-A6	103	
570-67217-1 MSD	S-2.5-A6	120	
570-67217-1 MSD	S-2.5-A6	112	
570-67217-2	S-5-A6	107	
570-67217-3	S-7.5-A6	127	
570-67217-4	S-10-A6	119	
570-67217-5	S-12.5-A6	117	
570-67217-6	S-2.5-B9	111	
570-67217-7 - RA	S-5-B9	110	
570-67217-8	S-7.5-B9	119	
570-67217-9 - RA	S-10-B9	109	
570-67217-10 - RA	S-12.5-B9	114	
570-67217-11	S-2.5-S4	106	
570-67217-12	S-5-S4	110	
570-67217-13	S-7.5-S4	114	
570-67217-14 - RA	S-10-S4	116	
570-67217-15 - RA	S-12.5-S4	123	
570-67217-16	S-2.5-R5	113	
570-67217-17	S-10-R5	107	
570-67217-18	S-12.5-R5	112	
570-67217-19	S-13-B9	113	
570-67217-20 - RA	S-10-R5 DUP	99	
570-67217-21	S-2.5-R3	109	
570-67217-22 - RA	S-5-R3	123	
570-67217-23	S-7.5-R3	122	
570-67217-24	S-10-R3	90	
570-67217-25	S-12.5-R3	113	
570-67217-26	S-2.5-S2	122	
570-67217-27	S-5-S2	108	
570-67217-28	S-7.5-S2	125	
570-67217-29	S-10-S2	126	
570-67217-30	S-12.5-S2	124	
LCS 570-173316/26-A	Lab Control Sample	113	
LCS 570-173316/2-A	Lab Control Sample	119	

## **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Silica Gel Cleanup

		Percent Surrogate Recovery (Acceptance Limits)
	OTCSN	
Client Sample ID	(50-150)	
Lab Control Sample	109	
Lab Control Sample	109	
Lab Control Sample Dup	114	
Lab Control Sample Dup	114	
Lab Control Sample Dup	113	
Lab Control Sample Dup	114	
Method Blank	115	
Method Blank	114	
	Lab Control Sample Lab Control Sample Lab Control Sample Dup Lab Control Sample Dup Lab Control Sample Dup Lab Control Sample Dup Method Blank	Client Sample ID (50-150)  Lab Control Sample 109  Lab Control Sample 109  Lab Control Sample Dup 114  Lab Control Sample Dup 114  Lab Control Sample Dup 113  Lab Control Sample Dup 114  Method Blank 115

,

4

8

9

10

12

4 4

41

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67217-1

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-173959/5 Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 173959** 

Prep Type: Total/NA

Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 08/24/21 14:37

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 08/24/21 14:37

Lab Sample ID: LCS 570-173959/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 173959** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.10 1.946 mg/Kg 93 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-173959/4 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 173959** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) mg/Kg 2.12 1.967 93 77 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 91 50 - 150

**Matrix: Solid** 

**Analysis Batch: 174124** 

MB MB

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 5.0 08/25/21 04:35 mg/Kg

MB MB Qualifier %Recovery Limits Dil Fac Surrogate Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/25/21 04:35 57

Lab Sample ID: LCS 570-174124/37

Lab Sample ID: MB 570-174124/40

**Matrix: Solid** 

**Analysis Batch: 174124** 

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec 2.12 77 - 128 TPH as Gasoline (C4-C13) 1.972 mg/Kg 93

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 80

Eurofins Calscience LLC

**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

**Prep Type: Total/NA** 

Prep Type: Total/NA

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 570-174124/38 **Matrix: Solid** 

Prep Type: Total/NA

Job ID: 570-67217-1

Analysis Batch: 174124

RPD Spike LCSD LCSD %Rec. Added Result Qualifier Unit %Rec Limits RPD Limit Analyte TPH as Gasoline (C4-C13) 2.12 1.968 mg/Kg 93 77 - 128 0 16

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: MB 570-174173/5 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174173** 

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 08/25/21 11:26

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 79 50 - 150 08/25/21 11:26

Client Sample ID: Method Blank Lab Sample ID: MB 570-174173/6 **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 174173** 

MB MB

Analyte Qualifier RL Unit Prepared Analyzed Dil Fac Result TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 5.0 mg/Kg 08/25/21 11:52

MB MB

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 63 50 - 150 08/25/21 11:52 20

Lab Sample ID: LCS 570-174173/3 **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 174173** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec TPH as Gasoline (C4-C13) 2.12 1.992 94 77 - 128 mg/Kg

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150 89

Lab Sample ID: LCSD 570-174173/4

**Matrix: Solid** 

**Analysis Batch: 174173** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit Limits RPD Limit Analyte %Rec 2.12 TPH as Gasoline (C4-C13) 1.851 mg/Kg 87 77 - 128

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 88

Eurofins Calscience LLC

**Prep Type: Total/NA** 

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Job ID: 570-67217-1

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-174333/6 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174333** 

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 08/25/21 18:36

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 84 50 - 150 08/25/21 18:36

Lab Sample ID: LCS 570-174333/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

mg/Kg

**Matrix: Solid** 

**Analysis Batch: 174333** 

TPH as Gasoline (C4-C13)

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 2.12 2.003 95 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 98

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-174333/5 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174333** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.12 2.024 95 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 87 50 - 150

Lab Sample ID: MB 570-174393/38

**Matrix: Solid** 

**Analysis Batch: 174393** 

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.25 08/26/21 01:43 mg/Kg

MB MB %Recovery Surrogate Qualifier Limits Dil Fac Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/26/21 01:43 80

Lab Sample ID: MB 570-174393/39 Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 174393** 

MB MB Result Qualifier RL Analyte Unit D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 08/26/21 02:09 20

MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 50 - 150 08/26/21 02:09 4-Bromofluorobenzene (Surr) 63 20

**Eurofins Calscience LLC** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Prep Type: Total/NA

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: LCS 570-174393/36

Lab Sample ID: LCSD 570-174393/37

Job ID: 570-67217-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174393** 

TPH as Gasoline (C4-C13)

Spike LCS LCS %Rec. Added Result Qualifier Analyte Unit %Rec

2.13

Limits 87 77 - 128

LCS LCS

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

**Prep Type: Total/NA** 

Prep Type: Total/NA

Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174393** 

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.13 1.824 mg/Kg 77 - 128

1.844

mg/Kg

LCSD LCSD

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 92

Client Sample ID: Method Blank Lab Sample ID: MB 570-174430/36 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174430** 

MB MB

Analyte Qualifier RL Unit Prepared Analyzed Dil Fac Result TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 5.0 mg/Kg 08/26/21 06:50

MB MB

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 61 50 - 150 08/26/21 06:50 20

Lab Sample ID: LCS 570-174430/33

**Matrix: Solid** 

**Analysis Batch: 174430** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit D %Rec TPH as Gasoline (C4-C13) 2.11 2.040 97 77 - 128 mg/Kg

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 90

Lab Sample ID: LCSD 570-174430/39

**Matrix: Solid** 

**Analysis Batch: 174430** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit Limits RPD Limit Analyte %Rec 2.13 TPH as Gasoline (C4-C13) 2.067 mg/Kg 97 77 - 128

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 90

Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-173316/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

Client: Cardno, Inc

**Analysis Batch: 174648** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 173316** 

Result Qualifier RL Unit Dil Fac Analyte **Prepared** Analyzed TPH as Diesel Range ND 5.0 mg/Kg 08/21/21 08:18 08/26/21 17:15 TPH as Motor Oil Range ND 5.0 mg/Kg 08/21/21 08:18 08/26/21 17:15

MB MB

MB MB

Surrogate %Recovery Qualifier I imite Prepared Dil Fac Analyzed n-Octacosane (Surr) 115 50 - 150

08/21/21 08:18 08/26/21 17:15

Lab Sample ID: LCS 570-173316/26-A

Lab Sample ID: LCS 570-173316/2-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 174648** 

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

**Prep Batch: 173316** 

Spike LCS LCS %Rec. Added Limits Result Qualifier D %Rec Analyte Unit TPH as Motor Oil (C17-C44) 400 404.5 mg/Kg 101 71 - 139

LCS LCS

%Recovery Surrogate Qualifier Limits 50 - 150 n-Octacosane (Surr) 113

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

**Prep Batch: 173316** 

Spike LCS LCS %Rec. Result Qualifier Added Limits Unit %Rec Analyte TPH as Diesel (C10-C28) 400 456.2 mg/Kg 114 76 - 126

LCS LCS

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 119 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173316/27-A

**Matrix: Solid Analysis Batch: 174648** 

**Analysis Batch: 174648** 

Prep Type: Silica Gel Cleanup **Prep Batch: 173316** LCSD LCSD Spike %Rec. **RPD** 

Added Limits Result Qualifier Unit %Rec RPD Limit 71 - 139 400 407.6 102 TPH as Motor Oil (C17-C44) mg/Kg

LCSD LCSD

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150

Lab Sample ID: LCSD 570-173316/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Silica Gel Cleanup** 

**Prep Batch: 173316 Analysis Batch: 174648** Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit TPH as Diesel (C10-C28) 400 459.2 mg/Kg 115 76 - 126

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 114 50 - 150

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67217-1

**Prep Batch: 173316** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Silica Gel Cleanup

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-67215-A-1-B MS Client Sample ID: Matrix Spike Prep Type: Silica Gel Cleanup **Matrix: Solid Analysis Batch: 174648 Prep Batch: 173316** 

Sample Sample Spike MS MS %Rec. Result Qualifier Result Qualifier Added Limits Analyte Unit %Rec TPH as Diesel (C10-C28) 1500 F1 504 2292 mg/Kg 166 37 - 175

MS MS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 118 50 - 150

Lab Sample ID: 570-67215-A-1-C MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Silica Gel Cleanup **Matrix: Solid** 

**Analysis Batch: 174648** 

MSD MSD RPD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 1500 F1 506 2378 F1 mg/Kg 182 37 - 175 4

MSD MSD %Recovery Surrogate Qualifier Limits n-Octacosane (Surr) 118 50 - 150

**Client Sample ID: Matrix Spike** Lab Sample ID: 570-67215-A-1-E MS **Matrix: Solid Prep Type: Silica Gel Cleanup** 

**Analysis Batch: 174648** 

**Prep Batch: 173316** Spike MS MS %Rec Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit Limits TPH as Motor Oil (C17-C44) 1200 F1 514 1925 mg/Kg 139 71 - 174

MS MS Qualifier Limits Surrogate %Recovery n-Octacosane (Surr) 109 50 - 150

Lab Sample ID: 570-67215-A-1-F MSD

**Matrix: Solid** 

**Analysis Batch: 174648** 

**Prep Batch: 173316** Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Motor Oil (C17-C44) 1200 F1 513 2234 F1 200 71 - 174 15 mg/Kg

MSD MSD %Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 124

Lab Sample ID: MB 570-173317/1-A

**Matrix: Solid** 

**Analysis Batch: 174648** 

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup **Prep Batch: 173317** MB MB

Result Qualifier RL Unit Prepared Dil Fac Analyte Analyzed TPH as Diesel Range ND 5.0 mg/Kg 08/21/21 08:21 08/26/21 16:10 TPH as Motor Oil Range ND 5.0 mg/Kg 08/21/21 08:21 08/26/21 16:10

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 114 50 - 150 08/21/21 08:21 08/26/21 16:10

Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: LCS 570-173317/26-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Silica Gel Cleanup

**Analysis Batch: 174648** 

**Prep Batch: 173317** Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec TPH as Motor Oil (C17-C44) 400 408.5 mg/Kg 102 71 - 139

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 109 50 - 150

Lab Sample ID: LCS 570-173317/2-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 174648** 

Prep Type: Silica Gel Cleanup **Prep Batch: 173317** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 439.0 mg/Kg 110 76 - 126

LCS LCS

113

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 109 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-173317/27-A

**Analysis Batch: 174648** 

**Matrix: Solid Prep Type: Silica Gel Cleanup Prep Batch: 173317** 

Spike LCSD LCSD %Rec RPD %Rec Analyte Added Result Qualifier Unit Limits RPD Limit TPH as Motor Oil (C17-C44) 400 402.9 101 71 - 139

LCSD LCSD

Surrogate %Recovery Qualifier Limits

Lab Sample ID: LCSD 570-173317/3-A

**Matrix: Solid** 

n-Octacosane (Surr)

**Analysis Batch: 174648** 

Client Sample ID: Lab Control Sample Dup

mg/Kg

**Prep Type: Silica Gel Cleanup Prep Batch: 173317** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit

TPH as Diesel (C10-C28) 400 441.3 110 76 - 126 mg/Kg

50 - 150

LCSD LCSD

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 114

Lab Sample ID: 570-67217-1 MS

**Matrix: Solid** 

**Analysis Batch: 174648** 

Client Sample ID: S-2.5-A6 Prep Type: Silica Gel Cleanup **Prep Batch: 173317** 

Sample Sample Spike MS MS %Rec. Result Qualifier babb∆ Result Qualifier D Limits Analyte Unit %Rec 7800 F2 943 37 - 175 TPH as Diesel (C10-C28) 438 11960 4 mg/Kg

MS MS

Surrogate %Recovery Qualifier Limits 103 50 - 150 n-Octacosane (Surr)

# **QC Sample Results**

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

Surrogate

n-Octacosane (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-67217-1 MS	Client Sample ID: S-2.5-A6
Matrix: Solid	Prep Type: Silica Gel Cleanup
Analysis Batch: 174648	Prep Batch: 173317

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	4700		442	5858	4	mg/Kg	— <u> </u>	262	71 - 174	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	106		50 - 150

Lab Sample ID: 570-67217- Matrix: Solid	Lab Sample ID: 570-67217-1 MSD Matrix: Solid						Client Sample ID: S-2.5-A6 Prep Type: Silica Gel Cleanup				
Analysis Batch: 174648							•		Prep Ba		
•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	7800	F2	440	9138	4 F2	mg/Kg	<u></u>	298	37 - 175	27	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	120		50 - 150

Lab Sample ID: 570-67217-1 MSD							Client Sample ID: S-2.5-A6					
Matrix: Solid				P	rep Ty	pe: Silica	Gel Cle	eanup				
Analysis Batch: 174648									Prep B	atch: 1	73317	
_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	4700		443	5973	4	mg/Kg	₩	287	71 - 174	2	20
	MSD	MSD									

Limits

50 - 150

**%Recovery Qualifier** 

112

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

## **GC VOA**

### **Prep Batch: 172066**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67217-1	S-2.5-A6	Total/NA	Solid	5035	
570-67217-2	S-5-A6	Total/NA	Solid	5035	
570-67217-3	S-7.5-A6	Total/NA	Solid	5035	
570-67217-7	S-5-B9	Total/NA	Solid	5035	
570-67217-9	S-10-B9	Total/NA	Solid	5035	
570-67217-10	S-12.5-B9	Total/NA	Solid	5035	
570-67217-17	S-10-R5	Total/NA	Solid	5035	
570-67217-18	S-12.5-R5	Total/NA	Solid	5035	
570-67217-19	S-13-B9	Total/NA	Solid	5035	
570-67217-20	S-10-R5 DUP	Total/NA	Solid	5035	

### **Prep Batch: 172067**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67217-4	S-10-A6	Total/NA	Solid	5035	
570-67217-5	S-12.5-A6	Total/NA	Solid	5035	
570-67217-6	S-2.5-B9	Total/NA	Solid	5035	
570-67217-8	S-7.5-B9	Total/NA	Solid	5035	
570-67217-11	S-2.5-S4	Total/NA	Solid	5035	
570-67217-12	S-5-S4	Total/NA	Solid	5035	
570-67217-13	S-7.5-S4	Total/NA	Solid	5035	
570-67217-14	S-10-S4	Total/NA	Solid	5035	
570-67217-15	S-12.5-S4	Total/NA	Solid	5035	
570-67217-16	S-2.5-R5	Total/NA	Solid	5035	
570-67217-21	S-2.5-R3	Total/NA	Solid	5035	
570-67217-22	S-5-R3	Total/NA	Solid	5035	
570-67217-23	S-7.5-R3	Total/NA	Solid	5035	
570-67217-24	S-10-R3	Total/NA	Solid	5035	
570-67217-25	S-12.5-R3	Total/NA	Solid	5035	
570-67217-26	S-2.5-S2	Total/NA	Solid	5035	
570-67217-27	S-5-S2	Total/NA	Solid	5035	
570-67217-28	S-7.5-S2	Total/NA	Solid	5035	
570-67217-29	S-10-S2	Total/NA	Solid	5035	
570-67217-30	S-12.5-S2	Total/NA	Solid	5035	

#### **Analysis Batch: 173959**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67217-4	S-10-A6	Total/NA	Solid	NWTPH-Gx	172067
570-67217-5	S-12.5-A6	Total/NA	Solid	NWTPH-Gx	172067
570-67217-6	S-2.5-B9	Total/NA	Solid	NWTPH-Gx	172067
570-67217-11	S-2.5-S4	Total/NA	Solid	NWTPH-Gx	172067
570-67217-13	S-7.5-S4	Total/NA	Solid	NWTPH-Gx	172067
MB 570-173959/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-173959/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-173959/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 174124**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67217-1	S-2.5-A6	Total/NA	Solid	NWTPH-Gx	172066
570-67217-2	S-5-A6	Total/NA	Solid	NWTPH-Gx	172066
570-67217-3	S-7.5-A6	Total/NA	Solid	NWTPH-Gx	172066
MB 570-174124/40	Method Blank	Total/NA	Solid	NWTPH-Gx	

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9/1/2021 (Rev. 1)

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

## **GC VOA (Continued)**

### **Analysis Batch: 174124 (Continued)**

١	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	LCS 570-174124/37	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
l	LCSD 570-174124/38	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 174173**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67217-12	S-5-S4	Total/NA	Solid	NWTPH-Gx	172067
570-67217-14	S-10-S4	Total/NA	Solid	NWTPH-Gx	172067
570-67217-16	S-2.5-R5	Total/NA	Solid	NWTPH-Gx	172067
570-67217-21	S-2.5-R3	Total/NA	Solid	NWTPH-Gx	172067
570-67217-25	S-12.5-R3	Total/NA	Solid	NWTPH-Gx	172067
570-67217-26	S-2.5-S2	Total/NA	Solid	NWTPH-Gx	172067
570-67217-27	S-5-S2	Total/NA	Solid	NWTPH-Gx	172067
570-67217-28	S-7.5-S2	Total/NA	Solid	NWTPH-Gx	172067
570-67217-29	S-10-S2	Total/NA	Solid	NWTPH-Gx	172067
570-67217-30	S-12.5-S2	Total/NA	Solid	NWTPH-Gx	172067
MB 570-174173/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-174173/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174173/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174173/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Analysis Batch: 174333**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67217-15	S-12.5-S4	Total/NA	Solid	NWTPH-Gx	172067
MB 570-174333/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174333/4	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174333/5	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 174393**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67217-9	S-10-B9	Total/NA	Solid	NWTPH-Gx	172066
570-67217-10	S-12.5-B9	Total/NA	Solid	NWTPH-Gx	172066
570-67217-18	S-12.5-R5	Total/NA	Solid	NWTPH-Gx	172066
570-67217-19	S-13-B9	Total/NA	Solid	NWTPH-Gx	172066
570-67217-20	S-10-R5 DUP	Total/NA	Solid	NWTPH-Gx	172066
570-67217-22	S-5-R3	Total/NA	Solid	NWTPH-Gx	172067
570-67217-23	S-7.5-R3	Total/NA	Solid	NWTPH-Gx	172067
570-67217-24	S-10-R3	Total/NA	Solid	NWTPH-Gx	172067
MB 570-174393/38	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-174393/39	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174393/36	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174393/37	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 174430**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67217-7	S-5-B9	Total/NA	Solid	NWTPH-Gx	172066
570-67217-8	S-7.5-B9	Total/NA	Solid	NWTPH-Gx	172067
570-67217-17	S-10-R5	Total/NA	Solid	NWTPH-Gx	172066
MB 570-174430/36	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174430/33	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174430/39	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

## GC Semi VOA

### **Prep Batch: 173316**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67217-21	S-2.5-R3	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-22 - RA	S-5-R3	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-23	S-7.5-R3	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-24	S-10-R3	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-25	S-12.5-R3	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-26	S-2.5-S2	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-27	S-5-S2	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-28	S-7.5-S2	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-29	S-10-S2	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-30	S-12.5-S2	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173316/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173316/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173316/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173316/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173316/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-A-1-B MS	Matrix Spike	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-A-1-C MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-A-1-E MS	Matrix Spike	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-A-1-F MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	3550C SGC	

#### **Prep Batch: 173317**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
570-67217-1	S-2.5-A6	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-2	S-5-A6	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-3	S-7.5-A6	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-4	S-10-A6	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-5	S-12.5-A6	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-6	S-2.5-B9	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-7 - RA	S-5-B9	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-8	S-7.5-B9	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-9 - RA	S-10-B9	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-10 - RA	S-12.5-B9	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-11	S-2.5-S4	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-12	S-5-S4	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-13	S-7.5-S4	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-14 - RA	S-10-S4	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-15 - RA	S-12.5-S4	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-16	S-2.5-R5	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-17	S-10-R5	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-18	S-12.5-R5	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-19	S-13-B9	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-20 - RA	S-10-R5 DUP	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-173317/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173317/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-173317/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173317/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173317/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-1 MS	S-2.5-A6	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-1 MS	S-2.5-A6	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-1 MSD	S-2.5-A6	Silica Gel Cleanup	Solid	3550C SGC	
570-67217-1 MSD	S-2.5-A6	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

## GC Semi VOA

### **Analysis Batch: 174648**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67217-1	S-2.5-A6	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-2	S-5-A6	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-3	S-7.5-A6	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-4	S-10-A6	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-5	S-12.5-A6	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-6	S-2.5-B9	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-7 - RA	S-5-B9	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-8	S-7.5-B9	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-9 - RA	S-10-B9	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-10 - RA	S-12.5-B9	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-11	S-2.5-S4	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-12	S-5-S4	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-13	S-7.5-S4	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-14 - RA	S-10-S4	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-15 - RA	S-12.5-S4	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-16	S-2.5-R5	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-17	S-10-R5	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-18	S-12.5-R5	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-19	S-13-B9	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-20 - RA	S-10-R5 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-21	S-2.5-R3	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67217-22 - RA	S-5-R3	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67217-23	S-7.5-R3	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67217-24	S-10-R3	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67217-25	S-12.5-R3	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67217-26	S-2.5-S2	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67217-27	S-5-S2	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67217-28	S-7.5-S2	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67217-29	S-10-S2	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67217-30	S-12.5-S2	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
MB 570-173316/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
MB 570-173317/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
LCS 570-173316/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
LCS 570-173316/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
LCS 570-173317/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
LCS 570-173317/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
LCSD 570-173316/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
LCSD 570-173316/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
LCSD 570-173317/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
LCSD 570-173317/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67215-A-1-B MS	Matrix Spike	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-A-1-C MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-A-1-E MS	Matrix Spike	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67215-A-1-E MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	NWTPH-Dx	173316
570-67217-1 MS	S-2.5-A6	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-1 MS	S-2.5-A6	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-1 MSD	S-2.5-A6	Silica Gel Cleanup	Solid	NWTPH-Dx	173317
570-67217-1 MSD 570-67217-1 MSD	S-2.5-A6	Silica Gel Cleanup	Solid	NWTPH-Dx	173317

Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-A6

Client: Cardno, Inc

Date Collected: 08/12/21 07:30 Date Received: 08/13/21 10:15 Lab Sample ID: 570-67217-1

Lab Sample ID: 570-67217-3

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.335 g	5 mL	172066	08/17/21 15:01	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		250	5 mL	5 mL	174124	08/25/21 13:10	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174648	08/26/21 19:47	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-5-A6 Lab Sample ID: 570-67217-2 **Matrix: Solid** 

Date Collected: 08/12/21 07:35 Date Received: 08/13/21 10:15

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 6.792 g 5 mL 172066 08/17/21 15:01 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 250 5 mL 5 mL 174124 08/25/21 13:34 A9VE ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.13 g 10 mL 173317 08/21/21 08:21 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 174648 08/26/21 20:08 A1W ECL 1 Analysis 5 Instrument ID: GC48

Client Sample ID: S-7.5-A6 Date Collected: 08/12/21 07:40

Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.867 g	5 mL	172066	08/17/21 15:01	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		250	5 mL	5 mL	174124	08/25/21 13:57	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		100			174648	08/26/21 20:29	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-A6 Lab Sample ID: 570-67217-4 Matrix: Solid

Date Collected: 08/12/21 07:45 Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared	Analyst	
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed		Lab
Total/NA	Prep	5035			8.899 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173959	08/25/21 01:03	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/26/21 20:50	A1W	ECL 1
	Instrumer	nt ID: GC48								

**Eurofins Calscience LLC** 

**Matrix: Solid** 

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-A6

Date Collected: 08/12/21 07:50 Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-5

Lab Sample ID: 570-67217-7

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.207 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	173959	08/25/21 01:27	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/26/21 21:12	A1W	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-2.5-B9 Lab Sample ID: 570-67217-6

Date Collected: 08/12/21 09:00 Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.056 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC57		1	5 g	5 mL	173959	08/25/21 01:50	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx at ID: GC48		1			174648	08/26/21 21:33	A1W	ECL 1

**Client Sample ID: S-5-B9** Date Collected: 08/12/21 09:05

Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.711 g	5 mL	172066	08/17/21 15:01	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	174430	08/26/21 12:46	A9VE	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	RA		10.14 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	RA	1			174648	08/27/21 16:05	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-B9 Lab Sample ID: 570-67217-8 Date Collected: 08/12/21 09:10 **Matrix: Solid** 

Date Received: 08/13/21 10:15

	Batch	Batch	Dil	Dil	Initial	Final	Batch Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.223 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174430	08/26/21 15:36	A9VE	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.20 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/26/21 22:17	A1W	ECL 1
	Instrumen	it ID: GC48								

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Client: Cardno, Inc Project/Site: ExxonMob

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-B9

Date Collected: 08/12/21 09:15 Date Received: 08/13/21 10:15 Lab Sample ID: 570-67217-9

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			11.342 g	5 mL	172066	08/17/21 15:01	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	174393	08/26/21 09:55	A9VE	ECL 2
	Instrumer	nt ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC	RA		10.12 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	RA	1			174648	08/27/21 16:27	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-12.5-B9

Date Collected: 08/12/21 09:20

Lab Sample ID: 570-67217-10

Matrix: Solid

Date Received: 08/13/21 10:15

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 12.256 g 5 mL 172066 08/17/21 15:01 EDZ4 ECL 2 Total/NA NWTPH-Gx Analysis 50 5 mL 5 mL 174393 08/26/21 10:20 A9VE ECL 2 Instrument ID: GC22 Silica Gel Cleanup 3550C SGC RA 10.15 g 10 mL 173317 08/21/21 08:21 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx RA 174648 08/27/21 16:48 A1W ECL 1 Instrument ID: GC48

Client Sample ID: S-2.5-S4 Date Collected: 08/12/21 10:05

Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.564 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173959	08/25/21 02:14	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 00:05	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-5-S4

Date Collected: 08/12/21 10:10

Lab Sample ID: 570-67217-12

Matrix: Solid

Date Collected: 08/12/21 10:10 Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.306 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174173	08/25/21 15:17	A9VE	ECL 2
	Instrumer	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 00:26	A1W	ECL 1
	Instrumer	t ID: GC48								

Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

**Client Sample ID: S-7.5-S4** 

Client: Cardno, Inc

Date Collected: 08/12/21 10:15 Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-13

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.858 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	173959	08/24/21 20:22	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 00:47	A1W	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-10-S4

Date Collected: 08/12/21 10:23

Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-14

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15.578 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC22		1	5 g	5 mL	174173	08/25/21 15:42	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC	RA		10.15 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx nt ID: GC48	RA	1			174648	08/27/21 17:10	A1W	ECL 1

Client Sample ID: S-12.5-S4

Date Collected: 08/12/21 10:25

Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-15

Lab Sample ID: 570-67217-16

**Matrix: Solid** 

**Matrix: Solid** 

Method 5035 s NWTPH-Gx	Run	Factor	<b>Amount</b> 4.651 g	Amount 5 g	Number 172067	or Analyzed 08/17/21 15:02	Analyst	ECL 2
			4.651 g	5 g	172067	08/17/21 15:02	FD74	FCL 2
s NWTPH-Gx						00/11/21 10:02		LOLZ
o ittivii ii Ox		1	5 g	5 mL	174333	08/25/21 19:30	P1R	ECL 2
ment ID: GC57								
3550C SGC	RA		10.06 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
s NWTPH-Dx	RA	1			174648	08/27/21 17:32	A1W	ECL 1
si	3550C SGC	3550C SGC RA sis NWTPH-Dx RA	3550C SGC RA sis NWTPH-Dx RA 1	3550C SGC RA 10.06 g sis NWTPH-Dx RA 1	3550C SGC RA 10.06 g 10 mL sis NWTPH-Dx RA 1	3550C SGC RA 10.06 g 10 mL 173317 sis NWTPH-Dx RA 1 174648	3550C SGC RA 10.06 g 10 mL 173317 08/21/21 08:21 sis NWTPH-Dx RA 1 174648 08/27/21 17:32	3550C SGC RA 10.06 g 10 mL 173317 08/21/21 08:21 USUL sis NWTPH-Dx RA 1 174648 08/27/21 17:32 A1W

Client Sample ID: S-2.5-R5

Date Collected: 08/12/21 10:45

Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.634 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174173	08/25/21 16:33	A9VE	ECL 2
	Instrumer	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 01:53	A1W	ECL 1
	Instrumer	t ID: GC48								

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Job ID: 570-67217-1

Client Sample ID: S-10-R5

Project/Site: ExxonMobil ADC / 0314476040

Client: Cardno, Inc

Date Collected: 08/12/21 11:00

Lab Sample ID: 570-67217-17

**Matrix: Solid** 

Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.452 g	5 mL	172066	08/17/21 15:01	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	174430	08/26/21 13:39	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			174648	08/27/21 02:14	A1W	ECL 1
	Instrumer	t ID: GC48								

Lab Sample ID: 570-67217-18

**Matrix: Solid** 

Date Collected: 08/12/21 11:05 Date Received: 08/13/21 10:15

Client Sample ID: S-12.5-R5

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 14.212 g 5 mL 172066 08/17/21 15:01 EDZ4 ECL 2 Total/NA NWTPH-Gx Analysis 50 5 mL 5 mL 174393 08/26/21 10:45 A9VE ECL 2 Instrument ID: GC22 Silica Gel Cleanup 3550C SGC 10.15 g 10 mL 173317 08/21/21 08:21 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 174648 08/27/21 02:36 A1W ECL 1 1 Instrument ID: GC48

Client Sample ID: S-13-B9 Lab Sample ID: 570-67217-19

Date Collected: 08/12/21 09:25 Date Received: 08/13/21 10:15

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.727 g	5 mL	172066	08/17/21 15:01	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC22		50	5 mL	5 mL	174393	08/26/21 11:11	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			174648	08/27/21 02:57	A1W	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-R5 DUP Lab Sample ID: 570-67217-20

Date Collected: 08/12/21 11:10 **Matrix: Solid** Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.605 g	5 mL	172066	08/17/21 15:01	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	174393	08/26/21 11:37	A9VE	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC	RA		10.08 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	RA	1			174648	08/27/21 17:53	A1W	ECL 1
	Instrumen	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

**Client Sample ID: S-2.5-R3** 

Date Collected: 08/12/21 11:40 Date Received: 08/13/21 10:15 Lab Sample ID: 570-67217-21

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.464 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC22		1	5 g	5 mL	174173	08/25/21 18:16	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 11:01	A1W	ECL 1
	Instrumer	it ID: GC48								

**Client Sample ID: S-5-R3** 

Date Collected: 08/12/21 11:45 Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-22

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14.714 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 09:29	A9VE	ECL 2
	Instrumer	it ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC	RA		10.12 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	RA	1			174648	08/27/21 15:43	A1W	ECL 1
	Instrumer	t ID: GC48								

**Client Sample ID: S-7.5-R3** Date Collected: 08/12/21 11:50

Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-23

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.821 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 09:04	A9VE	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 11:44	A1W	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-10-R3

Date Collected: 08/12/21 11:55

Lab Sample ID: 570-67217-24

**Matrix: Solid** Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13.971 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 08:38	A9VE	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 12:06	A1W	ECL 1
	Instrumen	t ID: GC48								

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-R3

Date Collected: 08/12/21 12:00 Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-25

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.622 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174173	08/25/21 18:41	A9VE	ECL 2
	Instrumer	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 12:27	A1W	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-2.5-S2

Date Collected: 08/12/21 12:20

Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-26

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.316 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC22		1	5 g	5 mL	174173	08/25/21 19:07	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 12:49	A1W	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: S-5-S2** 

Date Collected: 08/12/21 12:25

Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-27

Lab Sample ID: 570-67217-28

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.886 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174173	08/25/21 19:58	A9VE	ECL 2
	Instrumer	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 13:11	A1W	ECL 1
	Instrumen	t ID: GC48								

**Client Sample ID: S-7.5-S2** 

Date Collected: 08/12/21 12:30

Date Received: 08/13/21 10:15

Prep Type Total/NA Total/NA	Type Prep Analysis Instrumen	Batch  Method  5035  NWTPH-Gx t ID: GC22	Run	Factor 1	Initial Amount 7.453 g 5 g	Final Amount 5 g 5 mL	Batch Number 172067 174173	Prepared or Analyzed 08/17/21 15:02 08/25/21 20:23		Lab ECL 2 ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx t ID: GC48		1			174648	08/27/21 13:32	A1W	ECL 1

### **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-S2

Date Collected: 08/12/21 12:35 Date Received: 08/13/21 10:15

Lab Sample ID: 570-67217-29

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.127 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC22		1	5 g	5 mL	174173	08/25/21 20:49	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 13:55	A1W	ECL 1

Client Sample ID: S-12.5-S2 Lab Sample ID: 570-67217-30

Date Collected: 08/12/21 12:40 Date Received: 08/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.933 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174173	08/25/21 19:32	A9VE	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 14:16	A1W	ECL 1
	Instrumen	t ID: GC48								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

## **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	<b>Identification Number</b>	<b>Expiration Date</b>
Washington	State	C916-18	10-11-21

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## **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5035	Closed System Purge and Trap	SW846	ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-67217-1

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#### de Guia, Cecile

From: Laina Cole <laina.cole@cardno.com>
Sent: Monday, August 16, 2021 9:43 AM

**To:** de Guia, Cecile; Cam Penner-Ash; Bobby Thompson

**Subject:** RE: Eurofins Calscience sample confirmation files from 570-67217-1 ExxonMobil ADC /

0314476040

**EXTERNAL EMAIL*** 

#### Cecile,

The MS/MSD column was marked in error, please disregard. Also confirming % moisture for dry weight calculation. I have reminded the samplers to update the COC for this week.

Thank you,

#### Laina Cole

SENIOR PROGRAM COORDINATOR | BRANCH SAFETY OFFICER CARDNO

Direct +1 206 394 7225 Office +1 800 499 8950

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108

Email laina.cole@cardno.com Web www.cardno.com

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From: Cecile de Guia < Cecile.de Guia @eurofinset.com>

Sent: Friday, August 13, 2021 5:11 PM

To: Cam Penner-Ash <cameron.penner-ash@cardno.com>; Laina Cole <laina.cole@cardno.com>; Bobby Thompson

<robert.thompson@cardno.com>

Subject: Eurofins Calscience sample confirmation files from 570-67217-1 ExxonMobil ADC / 0314476040

Hello,

Attached please find the sample confirmation files for job 570-67217-1; ExxonMobil ADC / 0314476040

Please let me know if there should be any changes to be made for the sample IDs and sampling times. The column to perform MS/MSD has been marked again and shouldn't have per Bobby. Please confirm. Please add % Moisture in the instruction box for dry weight calculation.

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#### Cecile de Guia

Project Manager

**Eurofins Calscience LLC** Phone: 714-895-5494

E-mail: Cecile.deGuia@eurofinset.com

www.eurofinsus.com/env



Reference: [570-231202] Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

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#### de Guia, Cecile

From: Laina Cole <laina.cole@cardno.com>
Sent: Saturday, August 28, 2021 10:40 AM

**To:** de Guia, Cecile; Cam Penner-Ash; Bobby Thompson

**Subject:** RE: Eurofins Calscience report, EDD and invoice files from 570-67217-1 ExxonMobil ADC

/ 0314476040

**Attachments:** COC 570-67217_Revised.pdf

EXTERNAL EMAIL*

#### Cecile,

Sample ID "DUP" should be "S-10-R5 DUP". I've attached a revised COC for your records. Would it be possible to have the report reissued with the correct sample ID?

Thank you,

#### Laina Cole

SENIOR PROGRAM COORDINATOR | BRANCH SAFETY OFFICER CARDNO

Direct +1 206 394 7225 Office +1 800 499 8950

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108

Email laina.cole@cardno.com Web www.cardno.com

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From: Cecile de Guia < Cecile.de Guia @eurofinset.com>

Sent: Friday, August 27, 2021 8:25 PM

To: Cam Penner-Ash <cameron.penner-ash@cardno.com>; Laina Cole <laina.cole@cardno.com>; Bobby Thompson

<robert.thompson@cardno.com>

Subject: Eurofins Calscience report, EDD and invoice files from 570-67217-1 ExxonMobil ADC / 0314476040

Hello,

Attached please find the report, EDD and invoice files for job 570-67217-1; ExxonMobil ADC / 0314476040

Please feel free to contact me if you have any questions.

#### Cecile de Guia

Project Manager

**Eurofins Calscience LLC** Phone: 714-895-5494

E-mail: Cecile.deGuia@eurofinset.com

www.eurofinsus.com/env



Reference: [570-235721] Attachments: 4

> > Bank information has changed, please refer to remittance information on invoice. < <

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Committee   Comm	Pick High   Pick	206-510-5855	N/A	robert.thom	pson@cardn	o.com	SAMPLEK(S), rau	reevou, John Considine	Temp≍
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Control   Cont	Continue	Report to: laina.cole@cardno All units in ug/L Report to: laina.cole@cardno.c	om, robert.thompson@cardno.com om, robert.thompson@cardno.com.and	cameron.benner-ash@carc	mocom		HGT x		
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19	A	9 2-2-5	d'A		+	4	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, o	e 4oz un-preserved glass jar
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State   Stat	Section Busines Vols.; 1 Methanol Vol., one size unpreserved glass jar		68	8/12/2021 (1 qo	$\vdash$	4	XXX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, o	e 4oz un-preserved glass jar
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State   Stat	Straight   Straight	F. T	S&		Н	4	××××	2 Sodium Bisulfate VOAs, 1 Methanol VOA, o	e 4oz un-preserved glass jar
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			Major Pro	Project (AFE)		HRHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH	
ExxonMobil Engr	Jennifer Sedlachek		Project Name	ame	Ex	ExxonMobil ADC / 0314476040	
LABORATORY CLIENT					GLOBAL ID #/ COELT LOG CODE	SODE.	- 1
ADDRESS							P O 0314476040 Agreement# A2604415
SUS SOUTH CIOVE	Sub South Cloverdale Street Unit A13				PROJECT CONTACT: Robert Thompson	son	TABLUSE ONE Y
Seattle, WA 98108	08 355   7.º. M/A	1040	Superior (Superior)		SAMPLER(S): Paul Pr	SAMPLER(S): Paul Prevou, John Considine	
TURNAROUND TIME		Toper Thou	ropert, mompson(@cardno.com	Com			Tendo ≠
SAME DAY 2		☐ 5 DAYS	☑ 10 DAYS			REQUES	REQUESTED ANALYSIS
SPECIAL REQUIREMENTS (AI  RWQCB REPORTING	SPECIAL REQUIREMENTS (ADDITIONAL COSTS NAY APPLY)  RWQCB REPORTING	UNTIL					
SPECIAL INSTRUCTIONS:	IND. Bordom Cities Cal Care					***************************************	
Report to: laina.cole@card All units in ug/L	equived time and out of LCDs. Perform office describing the Computer of Sample, not by analysis method. eport to lains cole@cardno.com, robert thompson@cardno.com. Il units in ug/L	rams. Group resums by sample	e, not by analysis me	ethod.	GSM 28 H9T 28 H9T		
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1 3-10- Ab	90	8/12/02/1 07 45	S 6	4	くにシャ	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ıe 4oz un-preserved glass jar
6 S-25- RC	200	8/1-2021 D43	_	4 4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar. 2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved class jar.	ne 402 un-preserved glass jar he 402 un-preserved rilace jar
7 S-5- 89	62)	1		4	XXX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved class far	e 4oz un-preserved alass lar
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9 S-10- <b>6</b> 9	O To	8/12/2021 1915	+	4	XXX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
11 0.21 5.17	0 3	8/12/2021 04 6	+	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	16 40z un-preserved glass jar
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13 S-75-SH	2.X	8/11/2021	+	4	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	te 4oz un-preserved glass jar
14 S-10- SA	ለኦ	-		4	XXX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
15 S-12 5-51A	725			4	XXX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ie 4oz un-preserved glass jar
(6 S-25-RS	R5	SU2/2021 1345	+	4	XXX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ıe 4oz un-preserved glass jar
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7 6 10 8		Oct 1000 mo	+	<b>)</b>	1	2 Sodium Lieuriate VOAS, 1 Methanol VOA, one for un presented glass jar	NO 462 UP presented glass lat
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💸 eurofins 🗆	7440 LINCOLN WAY		يجو	Site Name			Everett Bulk Plant	lant	CHAIN OF CUSTODY RECORD	
***********	Calscience Garden GROVE, CA 92841-1432 TEL. (714) 895-5494. FAX: (714) 894-7501	841-1432 X· (714) 894-7501	H kund ber	Provide MRN for reta Retail Project (MRN)	(NAW)	0.4FE 6	Provide MRN for retail or AFE for major projects Refail Project (MRN)	DATE.	C	1
		1001-1001		Major Project (AFE)	(AFE)			PAGE		1
ExxonMobil Engr	Jennifer Sedlachek		رجه	Project Name			ExxonMobil ADC / 0314476040	176040		
LABORATORY CLIENT: Cardno					8	GLOBAL ID #/ COELT LOG CODE.	LOG CODE.		D 0 034475040 byraeman## A2504445	
ADDRESS: 309 South Cloverdale Street Unit A13	reet Unit A13					PROJECT CONTACT			1.46:(155.25044), 78(36116118) 7.50044 1.5	T
Seattle, WA 98108						Robert Thompson	mpson			······
TEI 206-510-5855	N/A	robert.th	osdwoi	robert.thompson@cardno.com	S I	AMPLER(S): <b>Pau</b>	SAMPLER(S): Paul Prevou, John Considine	<b>a</b>	COOLER RECEIP!	*****
TURNAROUND TIME SAME DAY 24 HR	☐48 HR ☐72 HR	☐ 5 DAYS	☑ 10 DAYS	AYS				REQUESTED ANALYSIS		1
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWQCB REPORTING  ARCHI	OSTS MAY APPLY)  ARCHIVE SAMPLES UNTIL	TIL								7
SPECIAL INSTRUCTIONS. Required Elill and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method.	orm Silica Gel Cleanup - 0.5 grams	s. Group results by sar	nple, not	by analysis method.		is Gasoli				
Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in ug/L	vert.thompson@cardno.com				usw	₃ HqT				MARKET REPORTS
Keport to: lains.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com	vert.thompson@cardno.com, and	cameron.penner-ash@	cardno.c	NO. OF C	/SW U	 H-G×				Olimony and as
USE SAMPLE ID	Field Point Name	<u> </u>	TIME	RIX	Perform				CONTAINER TYPE	SECURIOR CONTRACT
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22 S-5- R3	<b>K</b> 3	-	Shi	S 4	Ţ	- -	2 Sodium Bisulfate VOAs,	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	-preserved glass jar	1
- 1	123		CA.				2 Sodium Bisulfate VOAs,	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	-preserved glass jar	-
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26 8-25- 62	200	8/12/2021	200		1	1	2 Sodium Bisulfate VOAs	2 Sodium Bisulfate VOAs 1 Mathanol VOA one 40z un presented place jar	Processor glade jas Arecendar ribre jar	- Paris
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- 1	22		Q	S 4	<u>&gt;</u>	<b>&gt;</b>	2 Sodium Bisulfate VOAs,	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	-preserved glass jar	T****
24 S-10-57	27	8/12/2021 1235	× :		<u>\</u>		2 Sodium Bisulfate VOAs,	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	-preserved glass jar	T
50 3-12.5- 30	13	- 1	5	w 0	<u>*</u>		2 Sodium Bisulfate VOAs,	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	-preserved glass jar	T
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8 42 5-		8/ 12024			1		2-Sodiam Bisulfale VOAs,	2-Sociant Bisulate VOAs, 1 Methanel VOA, one 4oz un-preserved glass ja	-preserved glass jar	T
\$2.5		81_12021-	1		1		2 Sodium Bisuffate VOAs,	- Mothanol VOA, one 4oz un-preserved glass jar	-preserved-glaserjar-	
		8/- /2021	1				2 Sodium Blauffate VOAs,	2 Godium Bisulfate VOAs, 1 Methanol VOA, one 4ez un preserved glass jar.	preserved glass jac.	_
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Part # 156297-4861-96889-1638902/22

ORIGIN ID:BBEA (817) 965-6081

SHIP DATE: 12AUG21 ACTWGT: 51.00 LB CAD: 6986624/SSFE2202 DIMS: 24×14×13 IN

GARDEN GROVE, CA UNITED STATES US

BILL THIRD PARTY

TO

7

CALSCIENCE ENVIRO LAB 7440 LINCOLN WAY

GARDEN GROVE CA 92841



TRK# 2825 1105 7602

92841 CA-US SNA

92 APVA



**5** 10:30 7602 08.13

Page 53 of 54

Client: Cardno, Inc Job Number: 570-67217-1

Login Number: 67217 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Patel, Jayesh

Creator: Patel, Jayesh		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-67542-1

Client Project/Site: ExxonMobil ADC / 0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Suria

Authorized for release by: 8/31/2021 5:51:41 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS

Review your project results through

Total Access

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040 Laboratory Job ID: 570-67542-1

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# **Sample Summary**

Job ID: 570-67542-1 Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67542-1	S-2.5-P1	Solid	08/16/21 11:40	08/17/21 10:10
570-67542-2	S-5-P1	Solid	08/16/21 11:45	08/17/21 10:10
570-67542-3	S-7.5-P1	Solid	08/16/21 11:50	08/17/21 10:10
570-67542-4	S-10-P1	Solid	08/16/21 11:55	08/17/21 10:10
570-67542-5	S-12.5-P1	Solid	08/16/21 12:00	08/17/21 10:10
570-67542-6	S-2.5-P5	Solid	08/16/21 12:25	08/17/21 10:10
570-67542-7	S-5-P5	Solid	08/16/21 12:30	08/17/21 10:10
570-67542-8	S-7.5-P5	Solid	08/16/21 12:35	08/17/21 10:10
570-67542-9	S-10-P5	Solid	08/16/21 12:40	08/17/21 10:10
570-67542-10	S-12.5-P5	Solid	08/16/21 12:45	08/17/21 10:10
570-67542-11	S-2.5-P7	Solid	08/16/21 13:05	08/17/21 10:10
570-67542-12	S-5-P7	Solid	08/16/21 13:10	08/17/21 10:10
570-67542-13	S-7.5-P7	Solid	08/16/21 13:15	08/17/21 10:10
570-67542-14	S-10-P7	Solid	08/16/21 13:20	08/17/21 10:10
570-67542-15	S-12.5-P7	Solid	08/16/21 13:25	08/17/21 10:10
570-67542-16	S-2.5-O8	Solid	08/16/21 13:50	08/17/21 10:10
570-67542-17	S-5-O8	Solid	08/16/21 13:55	08/17/21 10:10
570-67542-18	S-10-O8	Solid	08/16/21 14:00	08/17/21 10:10
570-67542-19	S-12.5-O8	Solid	08/16/21 14:05	08/17/21 10:10

# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

**Quality Control** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

# Glossary

QC

RER

RPD

TEF

TEQ TNTC

RL

<u> </u>	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

#### Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67542-1

Job ID: 570-67542-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-67542-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/17/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.5° C.

#### Receipt Exceptions

One of two Sodium Bisulfate vials for the following sample was received broken: S-12.5-O8 (570-67542-19).

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174333. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: The following sample was diluted due to the nature of the sample matrix: S-5-P1 (570-67542-2). Elevated reporting limits (RLs) are provided.

Method NWTPH-Dx: The matrix spike duplicate (MSD) recoveries for preparation batch 570-174036 and analytical batch 570-175405 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-I	P1				Lab Sample ID: 5	570-67542-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	22		4.8	mg/Kg	20 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	290		59	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel
_						Cleanup
TPH as Motor Oil Range	960		59	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel
L						Cleanup
Client Sample ID: S-5-P1					Lab Sample ID: 5	570-67542-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	140		4.3	mg/Kg	20 × NWTPH-Gx	Total/NA
TPH as Diesel Range	280		30	mg/Kg	5 ♥ NWTPH-Dx	Silica Gel
ge				9/. 19		Cleanup
TPH as Motor Oil Range	780		30	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-7.5-I	P1				Lab Sample ID: 5	570-67542-3
					•	
Analyte		Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	14		11	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
L						Cleanup
Client Sample ID: S-10-P	21				Lab Sample ID: 5	570-67542-4
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Diesel Range	460		59	mg/Kg	5 ⊕ NWTPH-Dx	Silica Gel
_						Cleanup
TPH as Motor Oil Range	840		59	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
L						Cleanup
Client Sample ID: S-12.5	-P1				Lab Sample ID: 5	570-67542-5
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range			12	mg/Kg	1 × NWTPH-Dx	Silica Gel
				0 0		Cleanup
Client Sample ID: S-2.5-I	P5				Lab Sample ID: 5	570-67542-6
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	63		4.3	mg/Kg	20 × NWTPH-Gx	Total/NA
TPH as Diesel Range	200		29	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
ge				9/. 19		Cleanup
TPH as Motor Oil Range	360		29	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-5-P5	5				Lab Sample ID: 5	570-67542-7
Analyte	Docult	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)		<u> uaiiiiei</u>	110	<u>onit</u> mg/Kg		Total/NA
TPH as Diesel Range	3700		32	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
11 11 do Diosei Hange	3700		52	mg/Ng	O A NVVIII-DX	Cleanup
TPH as Motor Oil Range	250		32	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
				5. 5		Cleanup
Client Sample ID: S-7.5-I	P5				Lab Sample ID: 5	570-67542-8
		Ouglifica	DI	l lni4	•	
Analyte TPH as Gasoline (C4-C13)	Result 230	Qualifier	RL	Unit mg/Kg	Dil Fac D Method 250 □ NWTPH-Gx	Total/NA
TETT as Gasoline (C4-C13)	∠30		65	mg/Kg	∠50 ☆ NWTPH-GX	IOIal/INA

This Detection Summary does not include radiochemical test results.

**Eurofins Calscience LLC** 

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alscience LLC

8/31/2021

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-	P5 (Continu	ed)			Lab Sample ID:	<del>570-67542-</del> 8
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Diesel Range			6.4	mg/Kg	1	Silica Gel
						Cleanup
TPH as Motor Oil Range	240		6.4	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
-						Cleanup
Client Sample ID: S-10-F	25				Lab Sample ID:	5/0-6/542-9
Analyte		Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	790		130	mg/Kg	500 ☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	190		6.7	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	260		6.7	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-12.5	5-P5				Lab Sample ID: 57	70-67542-10
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1.0		0.25	mg/Kg	1	Total/NA
TPH as Diesel Range	10		6.4	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	130		6.4	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
-						Cleanup
Client Sample ID: S-2.5-	P7				Lab Sample ID: 5	70-67542-11
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	110		4.4	mg/Kg	20 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	2800		28	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
TDU 14 0 0 D	4500		00	11.6	5	Cleanup
TPH as Motor Oil Range	1500		28	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
- 	•				1 -1 0 1 -15 5	Cleanup
Client Sample ID: S-5-P7	<u> </u>				Lab Sample ID: 57	70-67542-12
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	870		61	mg/Kg	250 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	4300		32	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
TDU 14 0 0 D	100		00		E . NATELLE	Cleanup
TPH as Motor Oil Range	460		32	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel Cleanup
- Client Sample ID: S-7.5-	P7				Lab Sample ID: 57	70-67542-13
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1000		75	mg/Kg	250 × NWTPH-Gx	Total/NA
TPH as Diesel Range	3700		35	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
·- <del>-3</del> -	2.00			.99		Cleanup
TPH as Motor Oil Range	200		35	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-10-F	7				Lab Sample ID: 57	70-67542-14
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	260		130	mg/Kg	250 NWTPH-Gx	Total/NA
TPH as Diesel Range	830		9.7	mg/Kg	1 🌣 NWTPH-Dx	Silica Gel
						Cleanun

This Detection Summary does not include radiochemical test results.

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**Eurofins Calscience LLC** 

Cleanup

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-1	0-P7 (Continued)			Lab Sample ID: 5	70-67542-14
Analyta	Popult Qualifier	DI .	l Init	Dil Eas D. Mathad	Dron Tuno

Analyte Result Qualifier RL Unit Dil Fac D Method Prep Type
TPH as Motor Oil Range 310 9.7 mg/Kg 1 7 NWTPH-Dx Silica Gel
Cleanup

# Client Sample ID: S-12.5-P7 Lab Sample ID: 570-67542-15

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	3.0	1.9	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	1700	27	mg/Kg	1 ≎	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	4000	27	mg/Kg	1 ≎	NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-2.5-O8 Lab Sample ID: 570-67542-16

	Analyte	Result Q	Qualifier	RL	Unit		_	Method	Prep Type
1	TPH as Gasoline (C4-C13)	4100		100	mg/Kg	500	:Q:	NWTPH-Gx	Total/NA
	TPH as Diesel Range	15000		100	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup
	TPH as Motor Oil Range _	290		100	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-5-O8 Lab Sample ID: 570-67542-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	820		86	mg/Kg	500	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	45000		150	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1500		150	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-10-O8 Lab Sample ID: 570-67542-18

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	1500	260	mg/Kg	500	NWTPH-Gx	Total/NA
TPH as Diesel Range	2900	9.6	mg/Kg	1	· NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	180	9.6	mg/Kg	1	⇔ NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-12.5-O8 Lab Sample ID: 570-67542-19

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	8.3	1.6	mg/Kg	1 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range	20	19	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	150	19	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

8/31/2021

Job ID: 570-67542-1

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-P1

Lab Sample ID: 570-67542-1 Date Collected: 08/16/21 11:40

**Matrix: Solid** 

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	m Products (GC	<b>&gt;</b> )				
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	22		4.8	mg/Kg	₩	08/18/21 17:47	08/25/21 22:18	20
Surrogate	%Recovery (	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150			08/18/21 17:47	08/25/21 22:18	20

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	290		59	mg/Kg	— <u></u>	08/24/21 16:54	08/31/21 02:37	10
TPH as Motor Oil Range	960		59	mg/Kg	₩	08/24/21 16:54	08/31/21 02:37	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150			08/24/21 16:54	08/31/21 02:37	10

Client Sample ID: S-5-P1 Lab Sample ID: 570-67542-2 Date Collected: 08/16/21 11:45

**Matrix: Solid** 

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - North	nwest - Volatile	e Petroleui	m Products (GC	<b>C</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	140		4.3	mg/Kg	<del>*</del>	08/18/21 17:47	08/25/21 22:41	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150			08/18/21 17:47	08/25/21 22:41	20

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	280		30	mg/Kg	<u></u>	08/24/21 16:54	08/31/21 11:03	5
TPH as Motor Oil Range	780		30	mg/Kg	₩	08/24/21 16:54	08/31/21 11:03	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		50 - 150			08/24/21 16:54	08/31/21 11:03	5

Lab Sample ID: 570-67542-3 Client Sample ID: S-7.5-P1

Date Collected: 08/16/21 11:50

**Matrix: Solid** 

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - North	west - Volatile	<b>Petroleu</b> i	n Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.56	mg/Kg	₽	08/18/21 17:47	08/25/21 19:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150			08/18/21 17:47	08/25/21 19:54	1

Method: NWTPH-Dx - Nort	thwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		11	mg/Kg	— <u></u>	08/24/21 16:54	08/31/21 03:21	1
TPH as Motor Oil Range	14		11	mg/Kg	≎	08/24/21 16:54	08/31/21 03:21	1
Surrogate n-Octacosane (Surr)	%Recovery 115	Qualifier	Limits 50 - 150			<b>Prepared</b> 08/24/21 16:54	Analyzed 08/31/21 03:21	Dil Fac

Lab Sample ID: 570-67542-4 Client Sample ID: S-10-P1

Date Collected: 08/16/21 11:55 Date Received: 08/17/21 10:10

**Matrix: Solid** 

Job ID: 570-67542-1

Method: NWTPH-Gx - Northwest -	Volatile	Petroleum	Products (GC)
Analyte	Result	Qualifier	RL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.76	mg/Kg	₩	08/18/21 17:47	08/25/21 20:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

08/18/21 17:47 08/25/21 20:17 4-Bromofluorobenzene (Surr)

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

			( / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / -				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	460	59	mg/Kg	<u></u>	08/24/21 16:54	08/31/21 03:44	5
TPH as Motor Oil Range	840	59	mg/Kg	≎	08/24/21 16:54	08/31/21 03:44	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

114 08/24/21 16:54 08/31/21 03:44 n-Octacosane (Surr) 50 - 150

Date Collected: 08/16/21 12:00

Client Sample ID: S-12.5-P1 Lab Sample ID: 570-67542-5 **Matrix: Solid** 

Date Received: 08/17/21 10:10

#### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.71	mg/Kg	<del>*</del>	08/18/21 17:47	08/25/21 20:41	1
Surrogato	% Pocovory	Qualifier	Limite			Propared	Analyzod	Dil Esc

%Recovery Qualitier 08/18/21 17:47 08/25/21 20:41 4-Bromofluorobenzene (Surr) 50 - 150

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

				( - )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		12	mg/Kg	☆	08/24/21 16:54	08/31/21 04:06	1
TPH as Motor Oil Range	12		12	mg/Kg	☼	08/24/21 16:54	08/31/21 04:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		50 - 150			08/24/21 16:54	08/31/21 04:06	1

Client Sample ID: S-2.5-P5 Lab Sample ID: 570-67542-6 **Matrix: Solid** 

Date Collected: 08/16/21 12:25 Date Received: 08/17/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Method. NWTFTI-GX - NOTH	west - voiatile	relioleui	II FIOUUCIS	(80)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	63		4.3	mg/Kg	₽	08/18/21 17:47	08/25/21 23:05	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		50 - 150			08/18/21 17:47	08/25/21 23:05	20

Mothod: NWTDH_Dv	- Northweet - 9	Somi-Volatile	Potroloum P	roducte (GC) -	Silica Gol Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	200	29	mg/Kg	<u></u>	08/24/21 16:54	08/31/21 04:27	5
TPH as Motor Oil Range	360	29	mg/Kg	☼	08/24/21 16:54	08/31/21 04:27	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108	50 - 150			08/24/21 16:54	08/31/21 04:27	5

**Eurofins Calscience LLC** 

Project/Site: ExxonMobil ADC / 0314476040

Client: Cardno, Inc

Client Sample ID: S-5-P5 Lab Sample ID: 570-67542-7

Date Collected: 08/16/21 12:30 **Matrix: Solid** Date Received: 08/17/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2500		110	mg/Kg	₩	08/18/21 17:47	08/26/21 00:34	500
, , ,								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		50 - 150			08/18/21 17:47	08/26/21 00:34	500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3700	32	mg/Kg	<del></del>	08/24/21 16:54	08/31/21 11:25	5
TPH as Motor Oil Range	250	32	mg/Kg	₩	08/24/21 16:54	08/31/21 11:25	5
Surrogate	%Recovery Q	ualifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124	50 - 150			08/24/21 16:54	08/31/21 11:25	5

Client Sample ID: S-7.5-P5 Lab Sample ID: 570-67542-8

Date Collected: 08/16/21 12:35 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	KL	Unit	ט	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	230	65	mg/Kg	☼	08/18/21 17:47	08/26/21 00:58	250
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

4-Bromofluorobenzene (Surr) 90 50 - 150 08/18/21 17:47 08/26/21 00:58

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	29		6.4	mg/Kg	<del>*</del>	08/24/21 16:54	08/31/21 05:12	1
TPH as Motor Oil Range	240		6.4	mg/Kg	☆	08/24/21 16:54	08/31/21 05:12	1
Surrogate n-Octacosane (Surr)	<b>%Recovery</b> 109	Qualifier	Limits 50 - 150			Prepared 08/24/21 16:54	Analyzed 08/31/21 05:12	Dil Fac

Client Sample ID: S-10-P5 Lab Sample ID: 570-67542-9

Date Collected: 08/16/21 12:40 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - North	west - Volatile	Petroleur	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	790		130	mg/Kg	<del>*</del>	08/18/21 17:47	08/26/21 01:21	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150			08/18/21 17:47	08/26/21 01:21	500

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	190	6.7	mg/Kg	≎	08/24/21 16:54	08/31/21 05:34	1
TPH as Motor Oil Range	260	6.7	mg/Kg	₩	08/24/21 16:54	08/31/21 05:34	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93	50 - 150			08/24/21 16:54	08/31/21 05:34	1

**Eurofins Calscience LLC** 

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-P5
Date Collected: 08/16/21 12:45

Lab Sample ID: 570-67542-10

Matrix: Solid

Job ID: 570-67542-1

Date Received: 08/17/21 10:10

Analyte	Result	Qualifier	n Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.0		0.25	mg/Kg	<del>-</del>	08/18/21 17:47	08/25/21 21:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/18/21 17:47	08/25/21 21:04	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	10		6.4	mg/Kg	<u></u>	08/24/21 16:54	08/31/21 05:55	1
TPH as Motor Oil Range	130		6.4	mg/Kg	₩	08/24/21 16:54	08/31/21 05:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			08/24/21 16:54	08/31/21 05:55	1

Client Sample ID: S-2.5-P7

Date Collected: 08/16/21 13:05

Lab Sample ID: 570-67542-11

Matrix: Solid

Date Received: 08/17/21 10:10

Analyte		Qualifier	n Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	110		4.4	mg/Kg	₩	08/18/21 17:47	08/26/21 01:45	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			08/18/21 17:47	08/26/21 01:45	20

Method: NWTPH-Dx - North	nwest - Semi-V	olatile Pet	roleum Produ	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2800		28	mg/Kg	<u></u>	08/24/21 16:54	08/31/21 07:01	5
TPH as Motor Oil Range	1500		28	mg/Kg	☼	08/24/21 16:54	08/31/21 07:01	5
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			<b>Prepared</b> 08/24/21 16:54	Analyzed 08/31/21 07:01	Dil Fac

Client Sample ID: S-5-P7

Date Collected: 08/16/21 13:10

Lab Sample ID: 570-67542-12

Matrix: Solid

Date Collected: 08/16/21 13:10 Date Received: 08/17/21 10:10

	_
Mothod: NWTDH_Cv - Northwest - Volatile Detroloum Products (C)	וח

RL Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
C4				
61 mg/K	g ≎	08/18/21 17:47	08/26/21 02:08	250
<u> </u>		<b>Prepared</b> 08/18/21 17:47	Analyzed 08/26/21 02:08	<b>Dil Fac</b> 250
_	its	its	its Prepared	its Prepared Analyzed

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4300		32	mg/Kg	<del>-</del>	08/24/21 16:54	08/31/21 07:23	
TPH as Motor Oil Range	460		32	mg/Kg	☼	08/24/21 16:54	08/31/21 07:23	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		50 - 150			08/24/21 16:54	08/31/21 07:23	

Project/Site: ExxonMobil ADC / 0314476040

Client: Cardno, Inc

Lab Sample ID: 570-67542-13 **Client Sample ID: S-7.5-P7** 

Date Collected: 08/16/21 13:15 Date Received: 08/17/21 10:10

**Matrix: Solid** 

Method: NWTPH-Gx - North	west - Volatile	Petroleur	n Products (GC	<b>;)</b>				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1000		75	mg/Kg	<u></u>	08/18/21 17:47	08/26/21 02:55	250
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	Limits 50 - 150			Prepared 08/18/21 17:47	Analyzed 08/26/21 02:55	<b>Dil Fac</b> 250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3700		35	mg/Kg	<u></u>	08/24/21 16:54	08/31/21 11:47	
TPH as Motor Oil Range	200		35	mg/Kg	₩	08/24/21 16:54	08/31/21 11:47	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150			08/24/21 16:54	08/31/21 11:47	

Client Sample ID: S-10-P7 Lab Sample ID: 570-67542-14 Date Collected: 08/16/21 13:20

Date Received: 08/17/21 10:10

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	260		130	mg/Kg	<del></del>	08/18/21 17:47	08/26/21 03:18	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150			08/18/21 17:47	08/26/21 03:18	250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	830		9.7	mg/Kg	<u></u>	08/24/21 16:57	08/31/21 08:08	1
TPH as Motor Oil Range	310		9.7	mg/Kg	₩	08/24/21 16:57	08/31/21 08:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150			08/24/21 16:57	08/31/21 08:08	1

Lab Sample ID: 570-67542-15 Client Sample ID: S-12.5-P7

Date Collected: 08/16/21 13:25 Date Received: 08/17/21 10:10

vest - Volatile	Petroleun	n Products (GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3.0		1.9	mg/Kg	₩	08/18/21 17:47	08/25/21 21:28	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
73		50 - 150			08/18/21 17:47	08/25/21 21:28	1
		Result Qualifier 3.0	3.0 1.9  %Recovery Qualifier Limits	Result 3.0         Qualifier RL 1.9         Unit mg/Kg           %Recovery Qualifier Limits         Limits	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Result 3.0         Qualifier Qualifier 3.0         RL Qualifier MI

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1700		27	mg/Kg	<u></u>	08/24/21 16:57	08/31/21 08:30	1
TPH as Motor Oil Range	4000		27	mg/Kg	☼	08/24/21 16:57	08/31/21 08:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150			08/24/21 16:57	08/31/21 08:30	1

Job ID: 570-67542-1

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: 570-67542-16 Client Sample ID: S-2.5-O8

Date Collected: 08/16/21 13:50 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - Nortl	nwest - Volatile	Petroleur	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	4100		100	mg/Kg	<del>*</del>	08/18/21 17:47	08/26/21 03:42	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143		50 - 150			08/18/21 17:47	08/26/21 03:42	500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	15000		100	mg/Kg	<u></u>	08/24/21 16:57	08/31/21 12:10	10
TPH as Motor Oil Range	290		100	mg/Kg	₩	08/24/21 16:57	08/31/21 12:10	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125		50 - 150			08/24/21 16:57	08/31/21 12:10	10

**Client Sample ID: S-5-08** Lab Sample ID: 570-67542-17 Date Collected: 08/16/21 13:55 **Matrix: Solid** 

Date Received: 08/17/21 10:10

- Method: NWTPH-Gx - Nortl	nwest - Volatile	e Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	820		86	mg/Kg	≎	08/18/21 17:47	08/26/21 04:05	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		50 - 150			08/18/21 17:47	08/26/21 04:05	500

Method: NWTPH-Dx - North		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	45000		150	mg/Kg	— <u></u>	08/24/21 16:57	08/31/21 12:32	10
TPH as Motor Oil Range	1500		150	mg/Kg	₽	08/24/21 16:57	08/31/21 12:32	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121		50 - 150			08/24/21 16:57	08/31/21 12:32	10

Lab Sample ID: 570-67542-18 Client Sample ID: S-10-O8 **Matrix: Solid** 

Date Collected: 08/16/21 14:00

Date Received:	08/17/21 10	):10	

Method: NWTPH-Gx - Northw	est - Volatile	<b>Petroleun</b>	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1500		260	mg/Kg	<del>-</del>	08/18/21 17:47	08/26/21 04:29	500
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 80	Qualifier	Limits 50 - 150			<b>Prepared</b> 08/18/21 17:47	Analyzed 08/26/21 04:29	<b>Dil Fac</b> 500

Method: NWTPH-Dx - Nor	thwest - Semi-Volatile	e Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualif	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2900	9.6	mg/Kg	<u></u>	08/24/21 16:57	08/31/21 09:36	1
TPH as Motor Oil Range	180	9.6	mg/Kg	☼	08/24/21 16:57	08/31/21 09:36	1
Surrogate	%Recovery Quality	fier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116	50 - 150			08/24/21 16:57	08/31/21 09:36	1

# **Client Sample Results**

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-O8 Lab Sample ID: 570-67542-19

Date Collected: 08/16/21 14:05 Matrix: Solid

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - North	nwest - Volatile Petrole	eum Products (GC	<b>C</b> )				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	8.3	1.6	mg/Kg	<del>*</del>	08/18/21 17:47	08/25/21 21:51	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	52	50 - 150			08/18/21 17:47	08/25/21 21:51	1

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel	Cleanup		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	20		19	mg/Kg	<u></u>	08/24/21 16:57	08/31/21 09:57	1
TPH as Motor Oil Range	150		19	mg/Kg	☼	08/24/21 16:57	08/31/21 09:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	83		50 - 150			08/24/21 16:57	08/31/21 09:57	1

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Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	reicent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(50-150)	
570-67542-1	S-2.5-P1	<del></del>	
570-67542-2	S-5-P1	77	
570-67542-3	S-7.5-P1	81	
570-67542-4	S-10-P1	76	
570-67542-5	S-12.5-P1	54	
570-67542-6	S-2.5-P5	63	
570-67542-7	S-5-P5	124	
570-67542-8	S-7.5-P5	90	
570-67542-9	S-10-P5	92	
570-67542-10	S-12.5-P5	87	
570-67542-11	S-2.5-P7	72	
570-67542-12	S-5-P7	67	
570-67542-13	S-7.5-P7	76	
570-67542-14	S-10-P7	66	
570-67542-15	S-12.5-P7	73	
570-67542-16	S-2.5-O8	143	
570-67542-17	S-5-O8	114	
570-67542-18	S-10-O8	80	
570-67542-19	S-12.5-O8	52	
LCS 570-174333/4	Lab Control Sample	98	
LCSD 570-174333/5	Lab Control Sample Dup	87	
MB 570-174333/6	Method Blank	84	
MB 570-174333/7	Method Blank	81	

BFB = 4-Bromofluorobenzene (Surr)

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-67542-1	S-2.5-P1	109	
570-67542-1 MS	S-2.5-P1	116	
570-67542-1 MS	S-2.5-P1	115	
570-67542-1 MSD	S-2.5-P1	112	
570-67542-1 MSD	S-2.5-P1	107	
570-67542-2	S-5-P1	115	
570-67542-3	S-7.5-P1	115	
570-67542-4	S-10-P1	114	
570-67542-5	S-12.5-P1	114	
570-67542-6	S-2.5-P5	108	
570-67542-7	S-5-P5	124	
570-67542-8	S-7.5-P5	109	
570-67542-9	S-10-P5	93	
570-67542-10	S-12.5-P5	107	
570-67542-11	S-2.5-P7	132	
570-67542-12	S-5-P7	92	
570-67542-13	S-7.5-P7	119	

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# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Prep Type: Silica Gel Cleanup **Matrix: Solid** 

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-67542-14	S-10-P7	123	
570-67542-15	S-12.5-P7	119	
570-67542-16	S-2.5-O8	125	
570-67542-17	S-5-O8	121	
570-67542-18	S-10-O8	116	
570-67542-19	S-12.5-O8	83	
LCS 570-174036/2-A	Lab Control Sample	122	
LCS 570-174036/6-A	Lab Control Sample	108	
LCSD 570-174036/3-A	Lab Control Sample Dup	122	
LCSD 570-174036/7-A	Lab Control Sample Dup	116	
MB 570-174036/1-A	Method Blank	114	
0			
Surrogate Legend			

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Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

#### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-174333/6 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Client: Cardno, Inc

**Analysis Batch: 174333** 

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 08/25/21 18:36

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 84 50 - 150 08/25/21 18:36

Client Sample ID: Method Blank Lab Sample ID: MB 570-174333/7 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174333** 

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 08/25/21 19:00 20

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 81 50 - 150 08/25/21 19:00

**Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 570-174333/4 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174333** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.12 2.003 mg/Kg 95 77 - 128

LCS LCS

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 98 50 - 150

Lab Sample ID: LCSD 570-174333/5

**Matrix: Solid** 

**Analysis Batch: 174333** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Gasoline (C4-C13) 2.12 2.024 95 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Surrogate Limits

4-Bromofluorobenzene (Surr) 50 - 150 87

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Matrix: Solid** 

Lab Sample ID: MB 570-174036/1-A Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup **Analysis Batch: 175405** Prep Batch: 174036 MB MB

Analyte Result Qualifier RL Unit **Prepared** Analyzed Dil Fac TPH as Diesel Range ND 5.0 mg/Kg 08/24/21 16:53 08/30/21 23:19 TPH as Motor Oil Range 5.0 mg/Kg 08/24/21 16:53 08/30/21 23:19 ND

MB MB

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 08/24/21 16:53 08/30/21 23:19 n-Octacosane (Surr) 50 - 150 114

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Client Sample ID: Lab Control Sample Dup

**Prep Type: Total/NA** 

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Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

TPH as Diesel (C10-C28)

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-174036/2-A Matrix: Solid				Clie			: Lab Control Sample be: Silica Gel Cleanup
Analysis Batch: 175405							<b>Prep Batch: 174036</b>
-	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits

496.5

mg/Kg

124

76 - 126

400

	LCS LCS	
Surrogate	%Recovery Qualifier	Limits
n-Octacosane (Surr)	122	50 - 150

Lab Sample ID: LCS 570- Matrix: Solid	174036/6-A					Clier		•	: Lab Control be: Silica Gel (	
Analysis Batch: 175405									Prep Batch:	174036
_			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)			400	462.5		mg/Kg		116	71 - 139	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	108		50 - 150							

Lab Sample ID: LCS Matrix: Solid Analysis Batch: 175				(	Client Sa	•		Control be: Silica Prep Ba	Gel Čle	anup
		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)		400	498.8		mg/Kg		125	76 - 126	0	20
	LCSD LC	SD								
Surrogate	%Recovery Qu	ualifier Limits								

n-Octacosane (Surr)	122		50 - 150								
Lab Sample ID: LCSD 570	)-174036/7-A				(	Client Sai			Control		
Matrix: Solid							P	rep Typ	e: Silica	Gel Cle	anup
Analysis Batch: 175405									Prep Ba	atch: 17	74036
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)			400	446.8		mg/Kg		112	71 - 139	3	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	116		50 - 150								

Lab Sample ID: 570-67542 Matrix: Solid	-1 MS						P		t Sample be: Silica (	Gel Clea	nup
Analysis Batch: 175405									•	itch: 174	036
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
TPH as Diesel (C10-C28)	570		471	978.3		mg/Kg	<u></u>	87	37 - 175		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	116		50 - 150								

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# **QC Sample Results**

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-67542 Matrix: Solid Analysis Batch: 175405	2-1 MS						P		oe: Silica	ID: S-2.5-P1 Gel Cleanup atch: 174036
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	1200		472	1761		mg/Kg	<u></u>	113	71 - 174	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	115		50 - 150							

Lab Sample ID: 570-67542 Matrix: Solid	2-1 MSD						P		t Sample be: Silica	Gel Cle	anup
Analysis Batch: 175405	Sample	Sample	Spike	MSD	MSD				Prep Ba	atcn: 1	74036 RPD
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	570		469	1175		mg/Kg	— <del>-</del>	129	37 - 175	18	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	112		50 - 150								

Lab Sample ID: 570-67542 Matrix: Solid Analysis Batch: 175405	2-1 MSD						P		nt Sample be: Silica Prep Ba	Gel Cle	anup
_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	1200		470	1988		mg/Kg	☆	162	71 - 174	12	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	107		50 - 150								

# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

## **GC VOA**

#### **Prep Batch: 172511**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67542-3	S-7.5-P1	Total/NA	Solid	5035	
570-67542-4	S-10-P1	Total/NA	Solid	5035	
570-67542-5	S-12.5-P1	Total/NA	Solid	5035	
570-67542-10	S-12.5-P5	Total/NA	Solid	5035	
570-67542-15	S-12.5-P7	Total/NA	Solid	5035	
570-67542-19	S-12.5-O8	Total/NA	Solid	5035	

#### **Prep Batch: 172512**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67542-1	S-2.5-P1	Total/NA	Solid	5035	
570-67542-2	S-5-P1	Total/NA	Solid	5035	
570-67542-6	S-2.5-P5	Total/NA	Solid	5035	
570-67542-7	S-5-P5	Total/NA	Solid	5035	
570-67542-8	S-7.5-P5	Total/NA	Solid	5035	
570-67542-9	S-10-P5	Total/NA	Solid	5035	
570-67542-11	S-2.5-P7	Total/NA	Solid	5035	
570-67542-12	S-5-P7	Total/NA	Solid	5035	
570-67542-13	S-7.5-P7	Total/NA	Solid	5035	
570-67542-14	S-10-P7	Total/NA	Solid	5035	
570-67542-16	S-2.5-O8	Total/NA	Solid	5035	
570-67542-17	S-5-O8	Total/NA	Solid	5035	
570-67542-18	S-10-O8	Total/NA	Solid	5035	

#### **Analysis Batch: 174333**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67542-1	S-2.5-P1	Total/NA	Solid	NWTPH-Gx	172512
570-67542-2	S-5-P1	Total/NA	Solid	NWTPH-Gx	172512
570-67542-3	S-7.5-P1	Total/NA	Solid	NWTPH-Gx	172511
570-67542-4	S-10-P1	Total/NA	Solid	NWTPH-Gx	172511
570-67542-5	S-12.5-P1	Total/NA	Solid	NWTPH-Gx	172511
570-67542-6	S-2.5-P5	Total/NA	Solid	NWTPH-Gx	172512
570-67542-7	S-5-P5	Total/NA	Solid	NWTPH-Gx	172512
570-67542-8	S-7.5-P5	Total/NA	Solid	NWTPH-Gx	172512
570-67542-9	S-10-P5	Total/NA	Solid	NWTPH-Gx	172512
570-67542-10	S-12.5-P5	Total/NA	Solid	NWTPH-Gx	172511
570-67542-11	S-2.5-P7	Total/NA	Solid	NWTPH-Gx	172512
570-67542-12	S-5-P7	Total/NA	Solid	NWTPH-Gx	172512
570-67542-13	S-7.5-P7	Total/NA	Solid	NWTPH-Gx	172512
570-67542-14	S-10-P7	Total/NA	Solid	NWTPH-Gx	172512
570-67542-15	S-12.5-P7	Total/NA	Solid	NWTPH-Gx	172511
570-67542-16	S-2.5-O8	Total/NA	Solid	NWTPH-Gx	172512
570-67542-17	S-5-O8	Total/NA	Solid	NWTPH-Gx	172512
570-67542-18	S-10-O8	Total/NA	Solid	NWTPH-Gx	172512
570-67542-19	S-12.5-O8	Total/NA	Solid	NWTPH-Gx	172511
MB 570-174333/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-174333/7	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174333/4	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174333/5	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

# GC Semi VOA

#### **Prep Batch: 174036**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67542-1	S-2.5-P1	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-2	S-5-P1	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-3	S-7.5-P1	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-4	S-10-P1	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-5	S-12.5-P1	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-6	S-2.5-P5	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-7	S-5-P5	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-8	S-7.5-P5	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-9	S-10-P5	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-10	S-12.5-P5	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-11	S-2.5-P7	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-12	S-5-P7	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-13	S-7.5-P7	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-14	S-10-P7	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-15	S-12.5-P7	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-16	S-2.5-O8	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-17	S-5-O8	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-18	S-10-O8	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-19	S-12.5-O8	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-174036/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174036/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174036/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174036/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174036/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-1 MS	S-2.5-P1	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-1 MS	S-2.5-P1	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-1 MSD	S-2.5-P1	Silica Gel Cleanup	Solid	3550C SGC	
570-67542-1 MSD	S-2.5-P1	Silica Gel Cleanup	Solid	3550C SGC	

## Analysis Batch: 175405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67542-1	S-2.5-P1	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-2	S-5-P1	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-3	S-7.5-P1	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-4	S-10-P1	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-5	S-12.5-P1	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-6	S-2.5-P5	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-7	S-5-P5	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-8	S-7.5-P5	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-9	S-10-P5	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-10	S-12.5-P5	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-11	S-2.5-P7	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-12	S-5-P7	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-13	S-7.5-P7	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-14	S-10-P7	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-15	S-12.5-P7	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-16	S-2.5-O8	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-17	S-5-O8	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-18	S-10-O8	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-19	S-12.5-O8	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
MB 570-174036/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	174036

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# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

# GC Semi VOA (Continued)

#### **Analysis Batch: 175405 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-174036/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
LCS 570-174036/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
LCSD 570-174036/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
LCSD 570-174036/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-1 MS	S-2.5-P1	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-1 MS	S-2.5-P1	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-1 MSD	S-2.5-P1	Silica Gel Cleanup	Solid	NWTPH-Dx	174036
570-67542-1 MSD	S-2.5-P1	Silica Gel Cleanup	Solid	NWTPH-Dx	174036

4

5

7

8

10

12

14

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-P1

Date Collected: 08/16/21 11:40 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67542-1

Lab Sample ID: 570-67542-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.175 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		20	5 mL	5 mL	174333	08/25/21 22:18	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175405	08/31/21 02:37	N1A	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-5-P1 Lab Sample ID: 570-67542-2 Date Collected: 08/16/21 11:45 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 7.217 g 5 mL 172512 08/18/21 17:47 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** ECL 2 20 5 mL 5 mL 174333 08/25/21 22:41 P1R Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.18 g 10 mL 174036 08/24/21 16:54 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175405 08/31/21 11:03 N1A ECL 1 5 Instrument ID: GC48

Client Sample ID: S-7.5-P1

Date Collected: 08/16/21 11:50

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.813 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC57		1	5 g	5 mL	174333	08/25/21 19:54	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 03:21	N1A	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-10-P1 Lab Sample ID: 570-67542-4 **Matrix: Solid** 

Date Collected: 08/16/21 11:55 Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.915 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174333	08/25/21 20:17	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 03:44	N1A	ECL 1
	Instrumen	t ID: GC48								

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Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-P1

Date Collected: 08/16/21 12:00 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67542-5

Lab Sample ID: 570-67542-7

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.378 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC57		1	5 g	5 mL	174333	08/25/21 20:41	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 04:06	N1A	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: S-2.5-P5** Lab Sample ID: 570-67542-6 Date Collected: 08/16/21 12:25 **Matrix: Solid** 

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.841 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx t ID: GC57		20	5 mL	5 mL	174333	08/25/21 23:05	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.94 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 04:27	N1A	ECL 1
	Instrumen	t ID: GC48								

**Client Sample ID: S-5-P5** Date Collected: 08/16/21 12:30

Date Received: 08/17/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA			<u>                                    </u>				172512	08/18/21 17:47	FD74	ECL 2
IOIai/INA	Prep	5035			7.049 g	5 mL	172312	00/10/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174333	08/26/21 00:34	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.96 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 11:25	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-P5 Lab Sample ID: 570-67542-8 Date Collected: 08/16/21 12:35 **Matrix: Solid** 

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.189 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	174333	08/26/21 00:58	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.92 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 05:12	N1A	ECL 1
	Instrumen	t ID: GC48								

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Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-P5

Date Collected: 08/16/21 12:40 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67542-9

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.705 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174333	08/26/21 01:21	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.00 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 05:34	N1A	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-67542-10 Client Sample ID: S-12.5-P5

Date Collected: 08/16/21 12:45 Date Received: 08/17/21 10:10

Prep Type	Batch	Batch	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	
	Type	Method								Lab
Total/NA	Prep	5035			6.342 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	174333	08/25/21 21:04	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.04 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 05:55	N1A	ECL 1
	Instrumer	t ID: GC48								

**Client Sample ID: S-2.5-P7** Lab Sample ID: 570-67542-11 Date Collected: 08/16/21 13:05 Matrix: Solid

Date Received: 08/17/21 10:10

Prep Type	Batch	Batch		Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
	Type	Method	Run							
Total/NA	Prep	5035			6.505 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	174333	08/26/21 01:45	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 07:01	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-5-P7 Lab Sample ID: 570-67542-12

Date Collected: 08/16/21 13:10 Date Received: 08/17/21 10:10

Prep Type	Batch Type	Batch	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	
		Method								Lab
Total/NA	Prep	5035			6.653 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	174333	08/26/21 02:08	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 07:23	N1A	ECL 1
	Instrumer	t ID: GC48								

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Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-P7

Date Collected: 08/16/21 13:15 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67542-13

Lab Sample ID: 570-67542-15

Matrix: Solid

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.893 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		250	5 mL	5 mL	174333	08/26/21 02:55	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 11:47	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-P7 Lab Sample ID: 570-67542-14

Date Collected: 08/16/21 13:20 Date Received: 08/17/21 10:10

Batch Dil Initial Final Batch Batch Prepared **Prep Type** Method Type Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 4.632 g 5 mL 172512 08/18/21 17:47 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** ECL 2 250 5 mL 5 mL 174333 08/26/21 03:18 P1R Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 9.97 g 10 mL 174036 08/24/21 16:57 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175405 08/31/21 08:08 N1A ECL 1 Instrument ID: GC48

Client Sample ID: S-12.5-P7 Date Collected: 08/16/21 13:25

Date Received: 08/17/21 10:10

Prep Type	Batch Type	Batch		Dil Run Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
		Method	Run							
Total/NA	Prep	5035			3.53 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	174333	08/25/21 21:28	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.95 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 08:30	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-2.5-O8 Lab Sample ID: 570-67542-16 **Matrix: Solid** 

Date Collected: 08/16/21 13:50 Date Received: 08/17/21 10:10

Prep Type	Batch Type	Batch	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	
		Method								Lab
Total/NA	Prep	5035			6.971 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174333	08/26/21 03:42	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			5.52 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175405	08/31/21 12:10	N1A	ECL 1
	Instrumen	t ID: GC48								

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#### **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-O8

Lab Sample ID: 570-67542-17 Date Collected: 08/16/21 13:55 **Matrix: Solid** 

Date Received: 08/17/21 10:10

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.821 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174333	08/26/21 04:05	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			4.97 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175405	08/31/21 12:32	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-O8 Lab Sample ID: 570-67542-18 **Matrix: Solid** 

Date Collected: 08/16/21 14:00 Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.585 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174333	08/26/21 04:29	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 09:36	N1A	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-12.5-O8 Lab Sample ID: 570-67542-19 Date Collected: 08/16/21 14:05 **Matrix: Solid** 

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.993 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174333	08/25/21 21:51	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 09:57	N1A	ECL 1
	Instrumer	nt ID: GC48								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-67542-1

Project/Site: ExxonMobil ADC / 0314476040

## **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	<b>Identification Number</b>	<b>Expiration Date</b>
Washington	State	C916-18	10-11-21

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## **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5035	Closed System Purge and Trap	SW846	ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-67542-1

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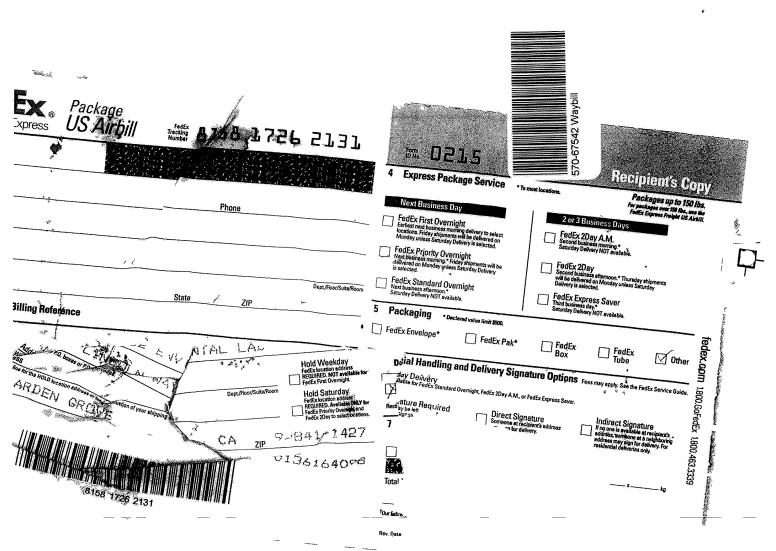
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Suroins	7440 LINCOLN WAY		5-0		Name		Everett Bulk Plant	CHAIN OF CUSTODY RECORD	
Calscien	Calscience GARDEN GROVE, CA 92841-1432	841-1432	CD23924-0-	Provid	de MRN for retal		or AFE for major projects	<b>DATE</b> 8/ <b>K</b> /2021	
	TEL: (714) 896-6494 FAX: (714) 894-7501	K: (714) 894-7501		Retail	Il Project (MRN)	0		PAGE OF /	
			***************************************	major	r roject (AFE)	KARABARAN PERBERARAN PERBERARAN PERBERARAN PERBERARAN PERBERARAN PERBERARAN PERBERARAN PERBERARAN PERBERARAN P	HURBURUH KARRENGSORSORSORSORSHEDARRENGHANI UNINGBRARRENGKENSKE		
Exxonwooli Engr.	Jennifer Sedlachek			Projec	Project Name	Ŵ	ExxonMobil ADC / 0314476040		
LABORATORY CLIENT: Cardno						GLOBAL ID #/ COELT LOG CODE	cobe,	D 0944778040 Auromonath A 2504445	Person
ADRESS. 309 South Cloverdale Street Unit A13	reet Unit A13					PROJECT CONTACT:			
Seattle, WA 98108						Robert Thompson	son	++	******
70 206-510-5855	N/A	robert.thompson@ca	homps	n@car	rdno.com	SAMPLER(S): Paul P	SAMPLER(S); Paul Prevou, John Considine	COOLER RECEIPT	
SAME DAY 24 HR	☐48 HR ☐72 HR	☐ 5 DAYS	✓ 10 DAYS	JAYS			REQUES		1
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWQCB REPORTING  SARCHI	OSTS MAY APPLY)	П. /							oja:
SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method.	orm Silica Gel Cleanup - 0.5 grams	s. Group results by sa	ample, no	by analysi	is method.	ilossə ss eseiü ss			**
include a moissure in report for any weight correction. Report to: lains cole@cardno.com, robert.thompson@cardno.com All units in majkg. Report to: lains cole@cardno.com. robert thompson@cardno.com and ramerva neunes-ash@cardno.com	ignt correction. Report to: lainta, ert thompson@eartho.com and	cole@cardno.com, ro	bert.thom	pson@car.	dno.com			AZO AZAZ Chair of Custody	and the same
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8/31/2021

Client: Cardno, Inc Job Number: 570-67542-1

Login Number: 67542 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Creator. Namos, Manber		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-67588-1

Client Project/Site: ExxonMobil ADC / 0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Suria

Authorized for release by: 8/31/2021 10:56:38 AM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040 Laboratory Job ID: 570-67588-1

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# **Sample Summary**

Job ID: 570-67588-1 Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67588-1	S-2.5-A8	Solid	08/16/21 07:50	08/17/21 10:10
570-67588-2	S-10-A8	Solid	08/16/21 08:05	08/17/21 10:10
570-67588-3	S-12.5-A8	Solid	08/16/21 08:10	08/17/21 10:10
570-67588-4	S-2.5-T3	Solid	08/16/21 08:30	08/17/21 10:10
570-67588-5	S-5-T3	Solid	08/16/21 08:35	08/17/21 10:10
570-67588-6	S-7.5-T3	Solid	08/16/21 08:40	08/17/21 10:10
570-67588-7	S-10-T3	Solid	08/16/21 08:45	08/17/21 10:10
570-67588-8	S-12.5-T3	Solid	08/16/21 08:50	08/17/21 10:10
570-67588-9	S-2.5-T1	Solid	08/16/21 09:00	08/17/21 10:10
570-67588-10	S-5-T1	Solid	08/16/21 09:05	08/17/21 10:10
570-67588-11	S-7.5-T1	Solid	08/16/21 09:10	08/17/21 10:10
570-67588-12	S-10-T1	Solid	08/16/21 09:15	08/17/21 10:10
570-67588-13	S-12.5-T1	Solid	08/16/21 09:20	08/17/21 10:10
570-67588-14	S-2.5-Q4	Solid	08/16/21 09:40	08/17/21 10:10
570-67588-15	S-5-Q4	Solid	08/16/21 09:45	08/17/21 10:10
570-67588-16	S-7.5-Q4	Solid	08/16/21 09:50	08/17/21 10:10
570-67588-17	S-10-Q4	Solid	08/16/21 09:55	08/17/21 10:10
570-67588-18	S-12.5-Q4	Solid	08/16/21 10:00	08/17/21 10:10
570-67588-19	S-14.5-A8	Solid	08/16/21 08:15	08/17/21 10:10
570-67588-20	S-2.5-P3	Solid	08/16/21 10:15	08/17/21 10:10
570-67588-21	S-2.5-Q2	Solid	08/16/21 11:00	08/17/21 10:10
570-67588-22	S-5-Q2	Solid	08/16/21 11:05	08/17/21 10:10
570-67588-23	S-7.5-Q2	Solid	08/16/21 11:10	08/17/21 10:10
570-67588-24	S-10-Q2	Solid	08/16/21 11:15	08/17/21 10:10
570-67588-25	S-12.5-Q2	Solid	08/16/21 11:20	08/17/21 10:10
570-67588-26	S-16-P3	Solid	08/16/21 10:25	08/17/21 10:10

## **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

#### **Qualifiers**

**GC VOA** 

Qualifier Qualifier Description

S1- Surrogate recovery exceeds control limits, low biased.

GC Semi VOA

Qualifier Qualifier Description

4 MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

F2 MS/MSD RPD exceeds control limits

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Example 2 Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

**Eurofins Calscience LLC** 

8/31/2021

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#### Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67588-1

Job ID: 570-67588-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-67588-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/17/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

#### Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): S-7.5-T1 (570-67588-11). The 4oz container label list S-7.5-J3, while the COC lists S-7.5-T1. Client was contacted via email and advised to follow the sample ID listed on the COC.

#### **GC VOA**

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 174393. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 174430. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-12.5-T1 (570-67588-13). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits. The re-analysis data has been reported.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-12.5-A8 (570-67588-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 174789. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-174079 and analytical batch 570-175228 was outside control limits. Sample matrix interference is suspected.

Method NWTPH-Dx: Due to the high concentration of TPH as Diesel Range and TPH as Motor Oil Range, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-174079 and analytical batch 570-175228 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Eurofins Calscience LLC 8/31/2021

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-	A8				Lab S	Sample ID: 5	70-67588-
 Analyte	Result G	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)			11	mg/Kg		¬ NWTPH-Gx	Total/NA
TPH as Diesel Range	69		5.8	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	29		5.8	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-10-A	<b>18</b>				Lab S	Sample ID: 5	70-67588-
- Analyte	Result C	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	160		21	mg/Kg	100	¬ NWTPH-Gx	Total/NA
TPH as Diesel Range	580		5.7	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
-							Cleanup
TPH as Motor Oil Range	260		5.7	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-12.5	5-A8				Lab S	Sample ID: 5	70-67588-
- Analyte	Result C	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	100		6.3	mg/Kg	50	¬ NWTPH-Gx	Total/NA
TPH as Diesel Range	630		5.8	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
-							Cleanup
TPH as Motor Oil Range	330		5.8	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-2.5-	Т3				Lab S	Sample ID: 5	70-67588-
- Analyte	Result C	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Diesel Range	6.3		5.8	mg/Kg	1		Silica Gel
							Cleanup
TPH as Motor Oil Range	8.3		5.8	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
-							Cleanup
Client Sample ID: S-5-T3	3				Lab S	Sample ID: 5	70-67588-
Analyte	Result C	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Motor Oil Range	6.0		5.6	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-7.5-	Т3				Lab S	Sample ID: 5	70-67588-
- Analyte	Result G	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Diesel Range			5.7	mg/Kg		⇒ NWTPH-Dx	Silica Gel
·· <b>·3</b> -				33			Cleanup
TPH as Motor Oil Range	13		5.7	mg/Kg	1	☼ NWTPH-Dx	Silica Gel
_							Cleanup
Client Sample ID: S-10-T	3				Lab S	Sample ID: 5	70-67588-
- Analyte	Result C	Jualifior	RL	Unit	Dil Ess	D Method	Prep Type
TPH as Diesel Range		<u> </u>		mg/Kg		⇒ NWTPH-Dx	Silica Gel
II II as Diesei Nallye	220		59	mg/Ng	10	₩ INVVICU-DX	Cleanup
TPH as Motor Oil Range	1400		59	mg/Kg	10	☼ NWTPH-Dx	Silica Gel
as motor on rungs	1100			9,119	.0		Olimou Ool

This Detection Summary does not include radiochemical test results.

Cleanup

8/31/2021

Client: Cardno, Inc

Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-T3 Lab Sample ID: 570-67588-8 Result Qualifier RL Unit Dil Fac D Method Analyte **Prep Type** TPH as Motor Oil Range 20 1 ☆ NWTPH-Dx mg/Kg Silica Gel 49 Cleanup Client Sample ID: S-2.5-T1 Lab Sample ID: 570-67588-9 Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 0.29 0.26 mg/Kg 1 ₽ NWTPH-Gx Total/NA TPH as Diesel Range 20 6.2 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup 59 1 ☼ NWTPH-Dx TPH as Motor Oil Range 6.2 mg/Kg Silica Gel

Client Sample ID: S-5-T1 Lab Sample ID: 570-67588-10

Result Qualifier RL Unit Dil Fac D Method **Analyte Prep Type** TPH as Diesel Range 19 5.8 mg/Kg 1 ₩ NWTPH-Dx Silica Gel Cleanup 1 ☼ NWTPH-Dx TPH as Motor Oil Range 18 5.8 mg/Kg Silica Gel Cleanup

Client Sample ID: S-7.5-T1 Lab Sample ID: 570-67588-11

Result Qualifier Unit Analyte RL Dil Fac D Method **Prep Type** TPH as Diesel Range 13 5.6 mg/Kg ☼ NWTPH-Dx Silica Gel Cleanup TPH as Motor Oil Range 12 5.6 mg/Kg Silica Gel Cleanup

Client Sample ID: S-10-T1 Lab Sample ID: 570-67588-12

Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Diesel Range 17 7.2 mg/Kg ☼ NWTPH-Dx Silica Gel Cleanup TPH as Motor Oil Range 7.2 1 ☼ NWTPH-Dx 33 mg/Kg Silica Gel Cleanup

Client Sample ID: S-12.5-T1 Lab Sample ID: 570-67588-13

Analyte Result Qualifier RL Unit Dil Fac D Method Prep Type

TPH as Motor Oil Range 25 23 mg/Kg 1 MVTPH-Dx Silica Gel Cleanup

Client Sample ID: S-2.5-Q4 Lab Sample ID: 570-67588-14

Result Qualifier RL Unit Dil Fac D Method Analyte **Prep Type** TPH as Gasoline (C4-C13) 2.1 0.22 mg/Kg ₽ NWTPH-Gx Total/NA TPH as Diesel Range 20 6.0 NWTPH-Dx mg/Kg Ö Silica Gel Cleanup 1 

□ NWTPH-Dx TPH as Motor Oil Range 17 6.0 mg/Kg Silica Gel Cleanup

Client Sample ID: S-5-Q4 Lab Sample ID: 570-67588-15

Result Qualifier Unit Method Analyte RL Dil Fac D **Prep Type** 0.22 NWTPH-Gx TPH as Gasoline (C4-C13) 7.3 ☼ Total/NA mg/Kg TPH as Diesel Range 100 33 Silica Gel mg/Kg Cleanup

This Detection Summary does not include radiochemical test results.

8/31/2021

Cleanup

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-Q4	(Continue	d)			Lab Sar	mple ID: 57	0-67588-15
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range	210		33	mg/Kg	5 🌣	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-C	<b>)</b> 4				Lab Sar	mple ID: 57	0-67588-16
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.34		0.23	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	22		6.0	mg/Kg	1 ⊅	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	100		6.0	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-Q	4				Lab Sar	mple ID: 57	0-67588-17
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.27		0.21	mg/Kg		NWTPH-Gx	Total/NA
Client Sample ID: S-12.5-	Q4				Lab Sar	nple ID: 57	0-67588-18
Analyte	Popult	Qualifier	RL	Unit	Dil Fac D	Mothod	Bron Tyno
TPH as Diesel Range		Qualifier	7.2	mg/Kg		NWTPH-Dx	Prep Type Silica Gel
11 11 as Dieser Kange	20		1.2	mg/kg	1 <i>1</i>	INVITITEDA	Cleanup
TPH as Motor Oil Range	56		7.2	mg/Kg	1 ⊅	NWTPH-Dx	Silica Gel
							Cleanup
Client Sample ID: S-14.5-	<b>A8</b>				Lab Sar	nple ID: 57	0-67588-19
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.6		0.32	mg/Kg	1 🌣		Total/NA
TPH as Diesel Range	85		9.5	mg/Kg	1 ⊅	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	48		9.5	mg/Kg	1 tò	NWTPH-Dx	Cleanup Silica Gel
	.0		0.0	9/. 19	. ,		Cleanup
Client Sample ID: S-2.5-P	3				Lab Sar	mple ID: 57	0-67588-20
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	800		100	mg/Kg	500 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	6100		120	mg/Kg	20 🌣	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range - DL	2400		120	ma/Ka	20 %	NWTPH-Dx	Cleanup Silica Gel
TPH as Motor Oil Range - DL	2400		120	mg/Kg	20 ≒	NVVIPH-DX	Cleanup
Client Sample ID: S-2.5-C	2				Lab Sar	mple ID: 57	0-67588-21
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	53		4.6	mg/Kg	20 🜣	NWTPH-Gx	Total/NA
TPH as Diesel Range	150		6.2	mg/Kg	1 ⊅	NWTPH-Dx	Silica Gel
TD11 14 1 01 5			0.5			NACTO: -	Cleanup
TPH as Motor Oil Range	240		6.2	mg/Kg	1 ⊅	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-Q2					Lab Sar	nple ID: 57	0-67588-22
Analyte	Rocult	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.3	<u> </u>	0.21	mg/Kg		NWTPH-Gx	Total/NA
	1.0		U.L.1	9/119	· ~		i otali i i i

This Detection Summary does not include radiochemical test results.

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# **Detection Summary**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-Q2	? (Continued)			Lab Sample ID: 57	0-67588-22
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	76	5.9	mg/Kg	1 🌣 NWTPH-Dx	Silica Gel
					Cleanup
Client Sample ID: S-7.5-0	Q2			Lab Sample ID: 57	0-67588-23
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.58	0.24	mg/Kg	1 ☆ NWTPH-Gx	Total/NA
TPH as Motor Oil Range	11	6.1	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
_					Cleanup
Client Sample ID: S-10-C	2			Lab Sample ID: 57	0-67588-24
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	6.8	6.2	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
					Cleanup
Client Sample ID: S-12.5	-Q2			Lab Sample ID: 57	0-67588-25
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	7.5	6.1	mg/Kg	1    ¬ NWTPH-Dx	Silica Gel
_					Cleanup
Client Sample ID: S-16-P	3			Lab Sample ID: 57	0-67588-26
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	5.3	1.1	mg/Kg	1 ☆ NWTPH-Gx	Total/NA
TPH as Motor Oil Range	29	17	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
					Cleanup

This Detection Summary does not include radiochemical test results.

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

**Client Sample ID: S-2.5-A8** 

Lab Sample ID: 570-67588-1

Date Collected: 08/16/21 07:50 Date Received: 08/17/21 10:10

**Matrix: Solid** 

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (GC	<b>;</b> )				
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	20		11	mg/Kg	<del>*</del>	08/18/21 19:00	08/27/21 19:24	50
Surrogate	%Recovery (	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		50 - 150			08/18/21 19:00	08/27/21 19:24	50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	69		5.8	mg/Kg	<u></u>	08/24/21 18:22	08/29/21 06:36	1
TPH as Motor Oil Range	29		5.8	mg/Kg	₽	08/24/21 18:22	08/29/21 06:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	82		50 - 150			08/24/21 18:22	08/29/21 06:36	1

Lab Sample ID: 570-67588-2 Client Sample ID: S-10-A8 **Matrix: Solid** 

Date Collected: 08/16/21 08:05 Date Received: 08/17/21 10:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	160		21	mg/Kg	₩	08/18/21 19:00	08/27/21 20:11	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150			08/18/21 19:00	08/27/21 20:11	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	580		5.7	mg/Kg	— <u></u>	08/24/21 18:22	08/29/21 06:56	1
TPH as Motor Oil Range	260		5.7	mg/Kg	₽	08/24/21 18:22	08/29/21 06:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		50 - 150			08/24/21 18:22	08/29/21 06:56	1

Lab Sample ID: 570-67588-3 Client Sample ID: S-12.5-A8 Date Collected: 08/16/21 08:10 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Meth	od: NWTPH-Gx - Northw	est - Volatile	Petroleur	m Products (G	C)				
Analy	te	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH a	s Gasoline (C4-C13)	100		6.3	mg/Kg	☆	08/18/21 19:00	08/27/21 19:48	50
Surro	gate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Broi	nofluorobenzene (Surr)	35	S1-	50 - 150			08/18/21 19:00	08/27/21 19:48	50

Method: NWTPH-Dx - Nor	thwest - Semi-Vola	itile Petroleum Produc	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	630	5.8	mg/Kg	₽	08/24/21 18:22	08/29/21 07:16	1
TPH as Motor Oil Range	330	5.8	mg/Kg	≎	08/24/21 18:22	08/29/21 07:16	1
Surrogate	%Recovery Qu	ualifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98	50 - 150			08/24/21 18:22	08/29/21 07:16	1

Client Sample ID: S-2.5-T3

Lab Sample ID: 570-67588-4 Date Collected: 08/16/21 08:30

**Matrix: Solid** 

Date Received: 08/17/21 10:10

Client: Cardno, Inc

Method: NWTPH-Gx - North	nwest - Volatile	e Petroleui	m Products (G	C)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.20	mg/Kg	<del>*</del>	08/18/21 18:59	08/26/21 03:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150			08/18/21 18:59	08/26/21 03:52	1

Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
TPH as Diesel Range	6.3		5.8	mg/Kg	— <u></u>	08/24/21 18:22	08/29/21 07:37	
TPH as Motor Oil Range	8.3		5.8	mg/Kg	☼	08/24/21 18:22	08/29/21 07:37	,
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150			08/24/21 18:22	08/29/21 07:37	-

**Client Sample ID: S-5-T3** Lab Sample ID: 570-67588-5

Date Collected: 08/16/21 08:35 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Analyte		Qualifier	n Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.19	mg/Kg	<del>-</del>	08/18/21 19:04	08/26/21 04:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/18/21 19:04	08/26/21 04:18	1

Method: NWTPH-Dx - Nort	hwest - Semi-Vo	latile Pet	roleum Produc	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.6	mg/Kg	<u></u>	08/24/21 18:22	08/29/21 07:58	1
TPH as Motor Oil Range	6.0		5.6	mg/Kg	₩	08/24/21 18:22	08/29/21 07:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	91		50 - 150			08/24/21 18:22	08/29/21 07:58	1

Lab Sample ID: 570-67588-6 Client Sample ID: S-7.5-T3 Date Collected: 08/16/21 08:40 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - North	west - Volatile	Petroleur	m Products (GC	3)				
Analyte		Qualifier	RL	Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.11	mg/Kg	- <del>D</del> -	08/18/21 19:04	08/26/21 04:44	1
Surrogate		Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150			08/18/21 19:04	08/26/21 04:44	7

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Pet	troleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	16	5.7	mg/Kg	₽	08/24/21 18:22	08/29/21 08:18	1
TPH as Motor Oil Range	13	5.7	mg/Kg	☆	08/24/21 18:22	08/29/21 08:18	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94	50 - 150			08/24/21 18:22	08/29/21 08:18	1

Client Sample ID: S-10-T3

Lab Sample ID: 570-67588-7 Date Collected: 08/16/21 08:45 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - No	orthwest - Volatile Petroleum I	Products (GC)
Analyte	Result Qualifier	RI

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	0.23	mg/Kg	₩	08/18/21 19:04	08/26/21 05:09	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 08/18/21 19:04 08/26/21 05:09 4-Bromofluorobenzene (Surr) 79

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte TPH as Diesel Range TPH as Motor Oil Range	Result 220 1400	Qualifier	RL 59	 Unit mg/Kg mg/Kg		Analyzed 08/29/21 22:16 08/29/21 22:16	10 10	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	

08/24/21 18:22 08/29/21 22:16 n-Octacosane (Surr) 96 50 - 150

Client Sample ID: S-12.5-T3

Date Collected: 08/16/21 08:50

Date Received: 08/17/21 10:10

#### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.73	1	mg/Kg	<u></u>	08/18/21 19:04	08/26/21 05:35	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/18/21 19:04 08/26/21 05:35 4-Bromofluorobenzene (Surr) 51 50 - 150

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

			( /				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	20	mg/Kg	<u></u>	08/24/21 18:22	08/29/21 22:38	1
TPH as Motor Oil Range	49	20	mg/Kg	☼	08/24/21 18:22	08/29/21 22:38	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: S-2.5-T1 Lab Sample ID: 570-67588-9 **Matrix: Solid** 

50 - 150

Date Collected: 08/16/21 09:00 Date Received: 08/17/21 10:10

n-Octacosane (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

90

Analyte Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13) 0.29	0.26	mg/Kg	☆	08/18/21 19:04	08/26/21 06:01	1

Surrogate %Recovery Qualifier Limits Analyzed Dil Fac Prepared 4-Bromofluorobenzene (Surr) 08/18/21 19:04 08/26/21 06:01 78 50 - 150

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	KL	Unit	ט	Prepared	Analyzeu	DII Fac
TPH as Diesel Range	20		6.2	mg/Kg	<del></del>	08/24/21 18:22	08/29/21 22:58	1
TPH as Motor Oil Range	59		6.2	mg/Kg	₩	08/24/21 18:22	08/29/21 22:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 50 - 150 08/24/21 18:22 08/29/21 22:58

Lab Sample ID: 570-67588-8

<u>08/24/21 18:22</u> <u>08/29/21 22:38</u>

**Matrix: Solid** 

Lab Sample ID: 570-67588-10 **Client Sample ID: S-5-T1** Date Collected: 08/16/21 09:05

**Matrix: Solid** 

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - Northy	est - Volatile	Petroleur	m Products	(GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.21	mg/Kg	₩	08/18/21 19:04	08/26/21 06:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150			08/18/21 19:04	08/26/21 06:27	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	19		5.8	mg/Kg	<u></u>	08/24/21 18:22	08/29/21 23:17	
TPH as Motor Oil Range	18		5.8	mg/Kg	₽	08/24/21 18:22	08/29/21 23:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		50 - 150			08/24/21 18:22	08/29/21 23:17	-

Lab Sample ID: 570-67588-11 Client Sample ID: S-7.5-T1

Date Collected: 08/16/21 09:10  Date Received: 08/17/21 10:10							Matrix	: Solid
Method: NWTPH-Gx - Northwe	est - Volatile	Petroleum	Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TDI O (O4 O40)			0.44			00/40/04 40 04	00/00/04 07 40	

TPH as Gasoline (C4-C13)	ND		0.11	mg/Kg	₩ 08/18/21 19:04	08/26/21 07:43	1
Surrogate  A Promofile and an analysis (Surra)	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150		00/10/21 19.04	08/26/21 07:43	,

Method: NWTPH-Dx - Northwe	st - Semi-V	olatile Petr	oleum Pro	ducts (GC) - Silica G	el (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13		5.6	mg/Kg	☼	08/24/21 18:22	08/29/21 23:38	1
TPH as Motor Oil Range	12		5.6	mg/Kg	₩	08/24/21 18:22	08/29/21 23:38	1
Surrogate n-Octacosane (Surr)	%Recovery 87	Qualifier	<b>Limits</b> 50 - 150			<b>Prepared</b> 08/24/21 18:22	Analyzed 08/29/21 23:38	Dil Fac

Lab Sample ID: 570-67588-12 Client Sample ID: S-10-T1

Date Collected: 08/16/21 09:15 **Matrix: Solid** Date Received: 08/17/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)										
Result Qu	ıalifier RL	Unit	D	Prepared	Analyzed	Dil Fac				
ND	0.77	mg/Kg	<del>*</del>	08/18/21 19:04	08/26/21 08:09	1				
%Recovery Qu	Limits 50 - 150			Prepared 08/18/21 19:04	Analyzed 08/26/21 08:09	Dil Fac				
	Result ND Qu	Result ND         Qualifier Qualifier         RL 0.77           %Recovery Qualifier         Limits	Result ND         Qualifier Qualifier         RL 0.77         Unit mg/Kg           %Recovery Qualifier Limits         Limits	Result   Qualifier   RL   Unit   D   mg/Kg		Result ND         Qualifier Qualifier         RL Qualifier         Unit MD         D QUALIFIER         Prepared QUALIFIER         Analyzed QUALIFIER           %Recovery Qualifier         Limits         Prepared QUALIFIER         Analyzed Analyzed				

Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	17		7.2	mg/Kg	<del>*</del>	08/24/21 18:22	08/29/21 23:58	1
TPH as Motor Oil Range	33		7.2	mg/Kg	₩	08/24/21 18:22	08/29/21 23:58	1
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150			08/24/21 18:22	08/29/21 23:58	1

Client Sample ID: S-12.5-T1

Lab Sample ID: 570-67588-13

Matrix: Solid

Date Collected: 08/16/21 09:20 Date Received: 08/17/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)									
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
ND		0.88	mg/Kg	<u></u>	08/18/21 19:04	08/27/21 22:33	1		
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
47	S1-	50 - 150			08/18/21 19:04	08/27/21 22:33	1		
	Result ND %Recovery	Result Qualifier	Result ND         Qualifier Qualifier         RL Qualifier           %Recovery Qualifier         Limits	Result ND         Qualifier Qualifier         RL Qualifier         Unit mg/Kg           %Recovery Qualifier         Limits	Result ND         Qualifier         RL 0.88         Unit mg/Kg         D mg/Kg           %Recovery         Qualifier         Limits	Result ND         Qualifier         RL 0.88         Unit mg/Kg         D 08/18/21 19:04           %Recovery Qualifier         Limits         Prepared	Result ND         Qualifier         RL 0.88         Unit mg/Kg         D 08/18/21 19:04         Prepared 08/18/21 19:04         Analyzed 08/27/21 22:33           %Recovery Qualifier         Limits         Prepared         Analyzed		

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		23	mg/Kg	— <u></u>	08/24/21 18:22	08/30/21 00:20	1
TPH as Motor Oil Range	25		23	mg/Kg	₩	08/24/21 18:22	08/30/21 00:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150			08/24/21 18:22	08/30/21 00:20	1

Client Sample ID: S-2.5-Q4

Date Collected: 08/16/21 09:40

Lab Sample ID: 570-67588-14

Matrix: Solid

Date Received: 08/17/21 10:10

<b>Method: NWTPH-Gx - Nortl</b>	nwest - Volatile	Petroleur	n Products (GC	<b>3</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2.1		0.22	mg/Kg	☆	08/18/21 19:04	08/27/21 12:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150			08/18/21 19:04	08/27/21 12:52	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup										
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
TPH as Diesel Range	20		6.0	mg/Kg	<u></u>	08/24/21 18:22	08/30/21 00:40	1		
TPH as Motor Oil Range	17		6.0	mg/Kg	₩	08/24/21 18:22	08/30/21 00:40	1		
Surrogate	%Recovery (	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	96		50 - 150			08/24/21 18:22	08/30/21 00:40	1		

Client Sample ID: S-5-Q4 Lab Sample ID: 570-67588-15

Date Collected: 08/16/21 09:45 Date Received: 08/17/21 10:10

Mothod: NWTPH Gy Northwest Volatile Petroleum Products (GC

Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleur	m Products (GC	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	7.3		0.22	mg/Kg	₩	08/18/21 19:04	08/27/21 13:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150			08/18/21 19:04	08/27/21 13:16	1

Method: NWTPH-Dx - Nort	thwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	100	33	mg/Kg	<del>-</del>	08/24/21 18:22	08/30/21 01:00	5
TPH as Motor Oil Range	210	33	mg/Kg	☼	08/24/21 18:22	08/30/21 01:00	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96	50 - 150			08/24/21 18:22	08/30/21 01:00	5

**Matrix: Solid** 

Client Sample ID: S-7.5-Q4

Date Collected: 08/16/21 09:50 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-16

Matrix: Solid

Job ID: 570-67588-1

Method: NWTPH-Gx - Northwest -	<b>Volatile Petroleum P</b>	roducts (GC)
	5 14 6 1161	

Unit D Prepared Analyzed Dil Fac Analyte Result Qualifier RL 08/18/21 19:04 08/27/21 13:39 TPH as Gasoline (C4-C13) 0.23 mg/Kg 0.34

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 08/18/21 19:04 08/27/21 13:39 4-Bromofluorobenzene (Surr) 75

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 22 6.0 mg/Kg 08/24/21 18:22 08/30/21 01:20 6.0 mg/Kg 08/24/21 18:22 08/30/21 01:20 **TPH as Motor Oil Range** 100

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 50 - 150 08/24/21 18:22 08/30/21 01:20 n-Octacosane (Surr) 99

Client Sample ID: S-10-Q4 Lab Sample ID: 570-67588-17

Date Collected: 08/16/21 09:55 Date Received: 08/17/21 10:10

Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Dil Fac 08/18/21 19:04 08/26/21 18:44 TPH as Gasoline (C4-C13) 0.27 0.21 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 66 50 - 150 08/18/21 19:04 08/26/21 18:44

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 6.0 mg/Kg 08/24/21 18:22 08/30/21 02:22 TPH as Motor Oil Range ND 6.0 mg/Kg 08/24/21 18:22 08/30/21 02:22 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 90 50 - 150 08/24/21 18:22 08/30/21 02:22

Client Sample ID: S-12.5-Q4 Lab Sample ID: 570-67588-18

Date Collected: 08/16/21 10:00 Date Received: 08/17/21 10:10

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0 47 mg/Kg 08/18/21 19:04 08/26/21 18:21

Surrogate %Recovery Qualifier I imits Prepared Analyzed Dil Fac 08/18/21 19:04 08/26/21 18:21 4-Bromofluorobenzene (Surr) 61 50 - 150

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	KL	Unit	ט	Prepared	Analyzeu	DII Fac
TPH as Diesel Range	28		7.2	mg/Kg	<del>*</del>	08/24/21 18:22	08/30/21 02:42	1
TPH as Motor Oil Range	56		7.2	mg/Kg	₩	08/24/21 18:22	08/30/21 02:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

50 - 150 08/24/21 18:22 08/30/21 02:42 n-Octacosane (Surr) 96

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-14.5-A8

Date Collected: 08/16/21 08:15 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-19

**Matrix: Solid** 

TPH-Gx - Northwest - Volatile Petroleum Products (GC)
-------------------------------------------------------

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.6	0.32	mg/Kg	☼	08/18/21 19:04	08/26/21 17:57	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 52 50 - 150 08/18/21 19:04 08/26/21 17:57 4-Bromofluorobenzene (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	85	9.5	mg/Kg	— <u></u>	08/24/21 18:22	08/30/21 03:02	1
TPH as Motor Oil Range	48	9.5	mg/Kg	₽	08/24/21 18:22	08/30/21 03:02	1
Surrogato	% Pocovory Qualifier	Limite			Propared	Analyzod	Dil Esc

Surrogate Prepared Analyzed %Recovery Qualifier n-Octacosane (Surr) 96 50 - 150 08/24/21 18:22 08/30/21 03:02

Client Sample ID: S-2.5-P3 Lab Sample ID: 570-67588-20

Date Collected: 08/16/21 10:15 Date Received: 08/17/21 10:10

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	800	100	mg/Kg	☼	08/18/21 19:00	08/27/21 19:01	500

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/18/21 19:00 08/27/21 19:01 4-Bromofluorobenzene (Surr) 79 50 - 150 500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DI

mothod: Militar II BX Morth Mot	or committee of the	a olouin i roudo	to (GG) Gillou	<b>O</b> 0. •	Journap DE		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6100	120	mg/Kg	<u></u>	08/24/21 18:22	08/30/21 17:04	20
TPH as Motor Oil Range	2400	120	mg/Kg	₩	08/24/21 18:22	08/30/21 17:04	20
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: S-2.5-Q2 Lab Sample ID: 570-67588-21

50 - 150

Date Collected: 08/16/21 11:00 Date Received: 08/17/21 10:10

n-Octacosane (Surr)

**Matrix: Solid** 

08/24/21 18:22 08/30/21 17:04

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

106

Analyte	Result C	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	53	 4.6	mg/Kg	₩	08/18/21 19:00	08/27/21 22:56	20
	0/5	 					5

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/18/21 19:00 08/27/21 22:56 4-Bromofluorobenzene (Surr) 58 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	150		6.2	mg/Kg	₩	08/24/21 18:32	08/30/21 01:59	1
TPH as Motor Oil Range	240		6.2	mg/Kg	≎	08/24/21 18:32	08/30/21 01:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 127 50 - 150 08/24/21 18:32 08/30/21 01:59

Job ID: 570-67588-1

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

**Client Sample ID: S-5-Q2** 

Lab Sample ID: 570-67588-22

**Matrix: Solid** 

Date Collected: 08/16/21 11:05 Date Received: 08/17/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
TPH as Gasoline (C4-C13)	1.3		0.21	mg/Kg	₩	08/18/21 19:04	08/27/21 14:49	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	90		50 - 150			08/18/21 19:04	08/27/21 14:49	1		

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.9	mg/Kg	— <u></u>	08/24/21 18:32	08/30/21 02:20	1
TPH as Motor Oil Range	76		5.9	mg/Kg	☼	08/24/21 18:32	08/30/21 02:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122		50 - 150			08/24/21 18:32	08/30/21 02:20	1

Client Sample ID: S-7.5-Q2 Lab Sample ID: 570-67588-23 Date Collected: 08/16/21 11:10 **Matrix: Solid** 

Date Received: 08/17/21 10:10

_ Method: NWTPH-Gx - NortI	hwest - Volatile	e Petroleui	n Products (GC	;)				
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.58		0.24	mg/Kg	≎	08/18/21 19:04	08/27/21 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		50 - 150			08/18/21 19:04	08/27/21 15:13	1

Method: NWTPH-Dx - Nort	hwest - Semi-Vo	olatile Pet	roleum Produc	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.1	mg/Kg	<del>-</del>	08/24/21 18:32	08/30/21 02:42	1
TPH as Motor Oil Range	11		6.1	mg/Kg	₽	08/24/21 18:32	08/30/21 02:42	1
Surrogate n-Octacosane (Surr)	%Recovery 122	Qualifier	<b>Limits</b> 50 - 150			Prepared 08/24/21 18:32	Analyzed 08/30/21 02:42	Dil Fac

Lab Sample ID: 570-67588-24 Client Sample ID: S-10-Q2 **Matrix: Solid** 

Date Collected: 08/16/21 11:15

Date Received: 08/17/21 10:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.20	mg/Kg	☼	08/18/21 19:04	08/27/21 15:36	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	73		50 - 150			08/18/21 19:04	08/27/21 15:36	

Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	6.8	6.2	mg/Kg	© 08/24/21 18:32	08/30/21 03:48	1
TPH as Diesel Range	ND	6.2	mg/Kg	□ <del>□</del>	08/30/21 03:48	1

## **Client Sample Results**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-Q2 Lab Sample ID: 570-67588-25

Date Collected: 08/16/21 11:20 Matrix: Solid

Date Received: 08/17/21 10:10

Method: NWTPH-Gx - North	hwest - Volatile Pet	roleum Products (GC	;)				
Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND ND	0.21	mg/Kg	<del>-</del>	08/18/21 19:04	08/27/21 15:59	1
Surrogate	%Recovery Qua	lifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		50 - 150			08/18/21 19:04	08/27/21 15:59	

Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND		6.1	mg/Kg	— <u></u>	08/24/21 18:32	08/30/21 04:10	1
TPH as Motor Oil Range	7.5		6.1	mg/Kg	₩	08/24/21 18:32	08/30/21 04:10	1
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fa
n-Octacosane (Surr)	106		50 - 150				08/30/21 04:10	

Lab Sample ID: 570-67588-26 Client Sample ID: S-16-P3 **Matrix: Solid** 

Date Collected: 08/16/21 10:25 Date Received: 08/17/21 10:10

_ Method: NWTPH-Gx - Nortl	nwest - Volatile	e Petroleui	n Products (GC	3)				
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	5.3		1.1	mg/Kg	<del>*</del>	08/18/21 19:04	08/27/21 16:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51		50 - 150			08/18/21 19:04	08/27/21 16:23	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		17	mg/Kg	<del>-</del>	08/24/21 18:32	08/30/21 04:31	1
TPH as Motor Oil Range	29		17	mg/Kg	₩	08/24/21 18:32	08/30/21 04:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150			08/24/21 18:32	08/30/21 04:31	1

Client: Cardno, Inc Job ID: 570-67588-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Project/Site: ExxonMobil ADC / 0314476040

**Matrix: Solid Prep Type: Total/NA** 

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-67588-1	S-2.5-A8	63	
570-67588-2	S-10-A8	57	
570-67588-3	S-12.5-A8	35 S1-	
570-67588-4	S-2.5-T3	81	
570-67588-5	S-5-T3	75	
570-67588-6	S-7.5-T3	82	
570-67588-7	S-10-T3	79	
570-67588-8	S-12.5-T3	51	
570-67588-9	S-2.5-T1	78	
570-67588-10	S-5-T1	81	
570-67588-11	S-7.5-T1	66	
570-67588-12	S-10-T1	68	
570-67588-13	S-12.5-T1	47 S1-	
570-67588-14	S-2.5-Q4	64	
570-67588-15	S-5-Q4	71	
570-67588-16	S-7.5-Q4	75	
570-67588-17	S-10-Q4	66	
570-67588-18	S-12.5-Q4	61	
570-67588-19	S-14.5-A8	52	
570-67588-20	S-2.5-P3	79	
570-67588-21	S-2.5-Q2	58	
570-67588-22	S-5-Q2	90	
570-67588-23	S-7.5-Q2	63	
570-67588-24	S-10-Q2	73	
570-67588-25	S-12.5-Q2	82	
570-67588-26	S-16-P3	51	
LCS 570-174393/36	Lab Control Sample	89	
LCS 570-174430/33	Lab Control Sample	90	
LCS 570-174789/35	Lab Control Sample	96	
LCSD 570-174393/37	Lab Control Sample Dup	92	
LCSD 570-174430/39	Lab Control Sample Dup	90	
LCSD 570-174789/36	Lab Control Sample Dup	77	
MB 570-174393/38	Method Blank	80	
MB 570-174430/35	Method Blank	51	
MB 570-174789/37	Method Blank	62	
MB 570-174789/38	Method Blank	57	

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid **Prep Type: Silica Gel Cleanup** 

		Percent Surrogate Recovery (Acceptance Limits)							
		OTCSN							
Lab Sample ID	Client Sample ID	(50-150)							
570-67588-1	S-2.5-A8	82							
570-67588-1 MS	S-2.5-A8	107							
570-67588-1 MS	S-2.5-A8	89							
570-67588-1 MSD	S-2.5-A8	84							

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## **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-67588-1 MSD	S-2.5-A8	94	
570-67588-2	S-10-A8	92	
570-67588-3	S-12.5-A8	98	
570-67588-4	S-2.5-T3	93	
570-67588-5	S-5-T3	91	
570-67588-6	S-7.5-T3	94	
570-67588-7	S-10-T3	96	
570-67588-8	S-12.5-T3	90	
570-67588-9	S-2.5-T1	90	
570-67588-10	S-5-T1	92	
570-67588-11	S-7.5-T1	87	
570-67588-12	S-10-T1	96	
570-67588-13	S-12.5-T1	93	
570-67588-14	S-2.5-Q4	96	
570-67588-15	S-5-Q4	96	
570-67588-16	S-7.5-Q4	99	
570-67588-17	S-10-Q4	90	
570-67588-18	S-12.5-Q4	96	
570-67588-19	S-14.5-A8	96	
570-67588-20 - DL	S-2.5-P3	106	
570-67588-21	S-2.5-Q2	127	
570-67588-22	S-5-Q2	122	
570-67588-23	S-7.5-Q2	122	
570-67588-24	S-10-Q2	124	
570-67588-25	S-12.5-Q2	106	
570-67588-26	S-16-P3	123	
570-67613-A-21-A MS	Matrix Spike	117	
570-67613-A-21-B MSD	Matrix Spike Duplicate	129	
570-67613-A-21-C MS	Matrix Spike	125	
570-67613-A-21-D MSD	Matrix Spike Duplicate	119	
LCS 570-174070/2-A	Lab Control Sample	95	
LCS 570-174070/6-A	Lab Control Sample	98	
LCS 570-174079/2-A	Lab Control Sample	129	
LCS 570-174079/6-A	Lab Control Sample	122	
LCSD 570-174070/3-A	Lab Control Sample Dup	97	
LCSD 570-174070/7-A	Lab Control Sample Dup	90	
LCSD 570-174079/3-A	Lab Control Sample Dup	119	
LCSD 570-174079/7-A	Lab Control Sample Dup	105	
MB 570-174070/1-A	Method Blank	97	
MB 570-174079/1-A	Method Blank	124	
510 11 1010/11/1	strice blank	147	

OTCSN = n-Octacosane (Surr)

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Job ID: 570-67588-1

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-174393/38 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 174393

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 0.25 08/26/21 01:43 TPH as Gasoline (C4-C13) ND mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 80 50 - 150 08/26/21 01:43

Lab Sample ID: LCS 570-174393/36 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 174393

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.13 1.844 mg/Kg 87 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 89

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-174393/37 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174393** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.13 1.824 mg/Kg 86 77 - 128

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 92 50 - 150

Lab Sample ID: MB 570-174430/35 **Client Sample ID: Method Blank Prep Type: Total/NA** 

**Matrix: Solid** 

**Analysis Batch: 174430** 

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac mg/Kg TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.25 08/26/21 06:26

MB MB

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/26/21 06:26 51

Lab Sample ID: LCS 570-174430/33

**Matrix: Solid** 

**Analysis Batch: 174430** 

Spike LCS LCS %Rec. Added Result Qualifier Unit Limits Analyte %Rec 77 - 128 TPH as Gasoline (C4-C13) 2.11 2.040 mg/Kg 97

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 90

Eurofins Calscience LLC

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: LCSD 570-174430/39

Job ID: 570-67588-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

**Prep Type: Total/NA** 

**Matrix: Solid** 

**Analysis Batch: 174430** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.13	2.067		mg/Kg		97	77 - 128	1	16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: MB 570-174789/37 **Client Sample ID: Method Blank** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174789** 

	мв м	1B					
Analyte	Result Q	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	0.25	mg/Kg			08/27/21 11:42	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	50 - 150		08/27/21 11:42	1

Lab Sample ID: MB 570-174789/38 **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 174789** 

•	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/27/21 12:06	20
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150				08/27/21 12:06	20

**Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 570-174789/35 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 174789** 

	Spike LC	S LCS	%Rec.
Analyte	Added Resu	lt Qualifier Unit [	) %Rec Limits
TPH as Gasoline (C4-C13)	2 13 2 13	ma/Ka	100 77 - 128

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-174789/36

**Matrix: Solid** 

**Analysis Batch: 174789** 

_	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.12	2.136		mg/Kg		101	77 - 128	1	16

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	77	50 - 150

**Eurofins Calscience LLC** 

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-174070/1-A **Matrix: Solid** 

Analysis Batch: 175154

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup

Prep Batch: 174070

Result Qualifier RL Unit Analyzed Dil Fac Analyte Prepared TPH as Diesel Range ND 5.0 mg/Kg 08/24/21 18:22 08/28/21 19:23 TPH as Motor Oil Range ND 5.0 mg/Kg 08/24/21 18:22 08/28/21 19:23

MB MB

MB MB

Qualifier Surrogate %Recovery I imite Prepared Dil Fac Analyzed n-Octacosane (Surr) 97 50 - 150 08/24/21 18:22 08/28/21 19:23

> Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

Prep Batch: 174070

Spike LCS LCS %Rec. Added Limits Result Qualifier %Rec Analyte Unit 76 - 126 TPH as Diesel (C10-C28) 400 445.3 mg/Kg 111

LCS LCS %Recovery Surrogate Qualifier Limits 50 - 150 n-Octacosane (Surr) 95

Lab Sample ID: LCS 570-174070/6-A

Lab Sample ID: LCS 570-174070/2-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 175154

**Analysis Batch: 175154** 

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

Prep Batch: 174070

Spike LCS LCS %Rec. Result Qualifier Added Limits Unit %Rec Analyte TPH as Motor Oil (C17-C44) 400 415.6 mg/Kg 104 71 - 139

LCS LCS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150

Lab Sample ID: LCSD 570-174070/3-A

**Matrix: Solid** 

Analysis Batch: 175154

Client Sample ID: Lab Control Sample Dup Prep Type: Silica Gel Cleanup Prep Batch: 174070

LCSD LCSD Spike %Rec. **RPD** Added Limits Analyte Result Qualifier Unit %Rec **RPD** Limit 400 472.1 118 76 - 126 TPH as Diesel (C10-C28) mg/Kg 6

Limits

LCSD LCSD Surrogate %Recovery Qualifier

n-Octacosane (Surr) 50 - 150

Lab Sample ID: LCSD 570-174070/7-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Silica Gel Cleanup Prep Batch: 174070** Analysis Batch: 175154 Spike LCSD LCSD RPD %Rec

%Rec Analyte Added Result Qualifier Unit Limits RPD Limit TPH as Motor Oil (C17-C44) 400 406.4 mg/Kg 102 71 - 139

LCSD LCSD Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 90 50 - 150

**Eurofins Calscience LLC** 

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: MB 570-174079/1-A

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-6758 Matrix: Solid Analysis Batch: 175154	8-1 MS						F		oe: Silica	e ID: S-2.5-A8 Gel Cleanup atch: 174070
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	79		464	605.7		mg/Kg	<u></u>	113	37 - 175	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	107		50 - 150							

Lab Sample ID: 570-67588 Matrix: Solid Analysis Batch: 175154	8-1 MS						P		t Sample II be: Silica G Prep Bat	
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	67		457	532.5		mg/Kg	<del>-</del>	102	71 - 174	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	89		50 - 150							

Lab Sample ID: 570-67588	b Sample ID: 570-67588-1 MSD									Client Sample ID: S-2.5-A8					
Matrix: Solid							P	rep Ty	oe: Silica	Gel Cle	anup				
Analysis Batch: 175154						Prep Ba	atch: 17	74070							
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit				
TPH as Diesel (C10-C28)	79		461	541.0		mg/Kg	≎	100	37 - 175	11	20				
	MSD	MSD													
Surrogate	%Recovery	Qualifier	Limits												
n-Octacosane (Surr)	84		50 - 150												

Lab Sample ID: 570-67588 Matrix: Solid Analysis Batch: 175154	B-1 MSD						P		t Sample be: Silica Prep Ba	Gel Cle	leanup
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	67		460	539.1		mg/Kg	<del>*</del>	103	71 - 174	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	94		50 - 150								

Matrix: Solid							: Silica Gel C	leanup
Analysis Batch: 175228							Prep Batch:	174079
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/24/21 18:28	08/29/21 12:54	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/24/21 18:28	08/29/21 12:54	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150			08/24/21 18:28	08/29/21 12:54	1

**Eurofins Calscience LLC** 

**Client Sample ID: Method Blank** 

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Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570- Matrix: Solid	174079/2-A					Clien			oe: Silica	ntrol Sample Gel Cleanup
Analysis Batch: 175228									Prep Ba	atch: 174079
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)			400	454.4		mg/Kg		114	76 - 126	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	129		50 - 150							

Lab Sample ID: LCS 570- Matrix: Solid Analysis Batch: 175228	174079/6-A					Clier		•	: Lab Control Sa be: Silica Gel Cla Prep Batch: 1	eanup
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)			400	439.9		mg/Kg		110	71 - 139	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	122		50 - 150							

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 175228	0-174079/3-A				(	Client Sa			Control : be: Silica : Prep Ba	Gel Čle	anup
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)			400	441.2		mg/Kg		110	76 - 126	3	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	119		50 - 150								

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 175228	-174079/7-A			(	Client Sar	•		Control be: Silica Prep Ba	Gel Cle	anup	
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)			400	406.7		mg/Kg		102	71 - 139	8	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	105		50 - 150								

Lab Sample ID: 570-67613 Matrix: Solid Analysis Batch: 175228	8-A-21-A MS								oe: Silica	Matrix Spike Gel Cleanup itch: 174079
Analysis Datcii. 173220	Sample	Sample	Spike	MS	MS				%Rec.	174075
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	8000	F2	464	5916	4	mg/Kg	<del>-</del>	-446	37 - 175	
	MS	MS								
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150							

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# **QC Sample Results**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-67613-A-21-B MSD Matrix: Solid Analysis Batch: 175228						Client S			Matrix Spil be: Silica Prep Ba	Gel Cle	anup
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	8000	F2	469	7539	4 F2	mg/Kg	— <u>—</u>	-95	37 - 175	24	20
	MSD	MSD									

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	129		50 - 150

Lab Sample ID: 570-67613 Matrix: Solid Analysis Batch: 175228	3-A-21-C MS								e: Silica	Matrix Spike Gel Cleanup atch: 174079
-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	3800		471	3540	4	mg/Kg	<del>-</del>	-51	71 - 174	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	125		50 - 150							

Lab Sample ID: 570-67613-A-21-D MSD Matrix: Solid				Client S			Matrix Spil be: Silica	•			
Analysis Batch: 175228									Prep Ba	atch: 17	74079
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	3800		473	3431	4	mg/Kg	<del>-</del>	-74	71 - 174	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	119		50 - 150

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

## **GC VOA**

#### **Prep Batch: 172545**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-4	S-2.5-T3	Total/NA	Solid	5035	
570-67588-5	S-5-T3	Total/NA	Solid	5035	
570-67588-6	S-7.5-T3	Total/NA	Solid	5035	
570-67588-7	S-10-T3	Total/NA	Solid	5035	
570-67588-8	S-12.5-T3	Total/NA	Solid	5035	
570-67588-9	S-2.5-T1	Total/NA	Solid	5035	
570-67588-10	S-5-T1	Total/NA	Solid	5035	
570-67588-11	S-7.5-T1	Total/NA	Solid	5035	
570-67588-12	S-10-T1	Total/NA	Solid	5035	
570-67588-13	S-12.5-T1	Total/NA	Solid	5035	
570-67588-14	S-2.5-Q4	Total/NA	Solid	5035	
570-67588-15	S-5-Q4	Total/NA	Solid	5035	
570-67588-16	S-7.5-Q4	Total/NA	Solid	5035	
570-67588-17	S-10-Q4	Total/NA	Solid	5035	
570-67588-18	S-12.5-Q4	Total/NA	Solid	5035	
570-67588-19	S-14.5-A8	Total/NA	Solid	5035	
570-67588-22	S-5-Q2	Total/NA	Solid	5035	
570-67588-23	S-7.5-Q2	Total/NA	Solid	5035	
570-67588-24	S-10-Q2	Total/NA	Solid	5035	
570-67588-25	S-12.5-Q2	Total/NA	Solid	5035	
570-67588-26	S-16-P3	Total/NA	Solid	5035	

#### **Prep Batch: 172546**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-1	S-2.5-A8	Total/NA	Solid	5035	
570-67588-2	S-10-A8	Total/NA	Solid	5035	
570-67588-3	S-12.5-A8	Total/NA	Solid	5035	
570-67588-20	S-2.5-P3	Total/NA	Solid	5035	
570-67588-21	S-2.5-Q2	Total/NA	Solid	5035	

#### **Analysis Batch: 174393**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-4	S-2.5-T3	Total/NA	Solid	NWTPH-Gx	172545
570-67588-5	S-5-T3	Total/NA	Solid	NWTPH-Gx	172545
570-67588-6	S-7.5-T3	Total/NA	Solid	NWTPH-Gx	172545
570-67588-7	S-10-T3	Total/NA	Solid	NWTPH-Gx	172545
570-67588-8	S-12.5-T3	Total/NA	Solid	NWTPH-Gx	172545
570-67588-9	S-2.5-T1	Total/NA	Solid	NWTPH-Gx	172545
570-67588-10	S-5-T1	Total/NA	Solid	NWTPH-Gx	172545
570-67588-11	S-7.5-T1	Total/NA	Solid	NWTPH-Gx	172545
570-67588-12	S-10-T1	Total/NA	Solid	NWTPH-Gx	172545
MB 570-174393/38	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174393/36	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174393/37	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Analysis Batch: 174430**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-17	S-10-Q4	Total/NA	Solid	NWTPH-Gx	172545
570-67588-18	S-12.5-Q4	Total/NA	Solid	NWTPH-Gx	172545
570-67588-19	S-14.5-A8	Total/NA	Solid	NWTPH-Gx	172545
MB 570-174430/35	Method Blank	Total/NA	Solid	NWTPH-Gx	

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

## **GC VOA (Continued)**

#### **Analysis Batch: 174430 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-174430/33	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174430/39	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Analysis Batch: 174789**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-1	S-2.5-A8	Total/NA	Solid	NWTPH-Gx	172546
570-67588-2	S-10-A8	Total/NA	Solid	NWTPH-Gx	172546
570-67588-3	S-12.5-A8	Total/NA	Solid	NWTPH-Gx	172546
570-67588-13	S-12.5-T1	Total/NA	Solid	NWTPH-Gx	172545
570-67588-14	S-2.5-Q4	Total/NA	Solid	NWTPH-Gx	172545
570-67588-15	S-5-Q4	Total/NA	Solid	NWTPH-Gx	172545
570-67588-16	S-7.5-Q4	Total/NA	Solid	NWTPH-Gx	172545
570-67588-20	S-2.5-P3	Total/NA	Solid	NWTPH-Gx	172546
570-67588-21	S-2.5-Q2	Total/NA	Solid	NWTPH-Gx	172546
570-67588-22	S-5-Q2	Total/NA	Solid	NWTPH-Gx	172545
570-67588-23	S-7.5-Q2	Total/NA	Solid	NWTPH-Gx	172545
570-67588-24	S-10-Q2	Total/NA	Solid	NWTPH-Gx	172545
570-67588-25	S-12.5-Q2	Total/NA	Solid	NWTPH-Gx	172545
570-67588-26	S-16-P3	Total/NA	Solid	NWTPH-Gx	172545
MB 570-174789/37	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-174789/38	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174789/35	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174789/36	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **GC Semi VOA**

#### **Prep Batch: 174070**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-1	S-2.5-A8	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-2	S-10-A8	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-3	S-12.5-A8	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-4	S-2.5-T3	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-5	S-5-T3	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-6	S-7.5-T3	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-7	S-10-T3	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-8	S-12.5-T3	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-9	S-2.5-T1	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-10	S-5-T1	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-11	S-7.5-T1	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-12	S-10-T1	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-13	S-12.5-T1	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-14	S-2.5-Q4	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-15	S-5-Q4	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-16	S-7.5-Q4	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-17	S-10-Q4	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-18	S-12.5-Q4	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-19	S-14.5-A8	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-20 - DL	S-2.5-P3	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-174070/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174070/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174070/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	

**Eurofins Calscience LLC** 

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Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

## GC Semi VOA (Continued)

#### Prep Batch: 174070 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-174070/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174070/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-1 MS	S-2.5-A8	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-1 MS	S-2.5-A8	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-1 MSD	S-2.5-A8	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-1 MSD	S-2.5-A8	Silica Gel Cleanup	Solid	3550C SGC	

#### **Prep Batch: 174079**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-21	S-2.5-Q2	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-22	S-5-Q2	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-23	S-7.5-Q2	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-24	S-10-Q2	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-25	S-12.5-Q2	Silica Gel Cleanup	Solid	3550C SGC	
570-67588-26	S-16-P3	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-174079/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174079/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174079/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174079/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174079/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-A-21-A MS	Matrix Spike	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-A-21-B MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-A-21-C MS	Matrix Spike	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-A-21-D MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	3550C SGC	

#### **Analysis Batch: 175154**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-1	S-2.5-A8	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-2	S-10-A8	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-3	S-12.5-A8	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-4	S-2.5-T3	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-5	S-5-T3	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-6	S-7.5-T3	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
MB 570-174070/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
LCS 570-174070/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
LCS 570-174070/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
LCSD 570-174070/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
LCSD 570-174070/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-1 MS	S-2.5-A8	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-1 MS	S-2.5-A8	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-1 MSD	S-2.5-A8	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-1 MSD	S-2.5-A8	Silica Gel Cleanup	Solid	NWTPH-Dx	174070

#### **Analysis Batch: 175226**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-7	S-10-T3	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-8	S-12.5-T3	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-9	S-2.5-T1	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-10	S-5-T1	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-11	S-7.5-T1	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-12	S-10-T1	Silica Gel Cleanup	Solid	NWTPH-Dx	174070

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

## GC Semi VOA (Continued)

#### **Analysis Batch: 175226 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-13	S-12.5-T1	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-14	S-2.5-Q4	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-15	S-5-Q4	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-16	S-7.5-Q4	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-17	S-10-Q4	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-18	S-12.5-Q4	Silica Gel Cleanup	Solid	NWTPH-Dx	174070
570-67588-19	S-14.5-A8	Silica Gel Cleanup	Solid	NWTPH-Dx	174070

#### **Analysis Batch: 175228**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-21	S-2.5-Q2	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67588-22	S-5-Q2	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67588-23	S-7.5-Q2	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67588-24	S-10-Q2	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67588-25	S-12.5-Q2	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67588-26	S-16-P3	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
MB 570-174079/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
LCS 570-174079/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
LCS 570-174079/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
LCSD 570-174079/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
LCSD 570-174079/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-A-21-A MS	Matrix Spike	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-A-21-B MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-A-21-C MS	Matrix Spike	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-A-21-D MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	NWTPH-Dx	174079

#### **Analysis Batch: 175333**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67588-20 - DL	S-2.5-P3	Silica Gel Cleanup	Solid	NWTPH-Dx	174070

# **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-A8

Date Collected: 08/16/21 07:50 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		6.794 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		50	5 mL	5 mL	174789	08/27/21 19:24	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 06:36	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-10-A8 Lab Sample ID: 570-67588-2 **Matrix: Solid** 

Date Collected: 08/16/21 08:05 Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.995 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	174789	08/27/21 20:11	A9VE	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 06:56	N5Y3	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-12.5-A8 Lab Sample ID: 570-67588-3 Date Collected: 08/16/21 08:10 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 11.761 g 5 mL 172546 08/18/21 19:00 EDZ4 ECL 2 Total/NA Analysis NWTPH-Gx 50 5 mL 5 mL 174789 08/27/21 19:48 A9VE ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10 mL 174070 08/24/21 18:22 USUL ECL 1 Prep 10.24 g Silica Gel Cleanup NWTPH-Dx 175154 08/29/21 07:16 N5Y3 Analysis ECL 1 1 Instrument ID: GC50

Client Sample ID: S-2.5-T3 Lab Sample ID: 570-67588-4 **Matrix: Solid** 

Date Collected: 08/16/21 08:30 Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.32 g	5 g	172545	08/18/21 18:59	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 03:52	A9VE	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 07:37	N5Y3	ECL 1
	Instrumen	t ID: GC50								

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# **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

**Client Sample ID: S-5-T3** 

Date Collected: 08/16/21 08:35 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.403 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC22		1	5 g	5 mL	174393	08/26/21 04:18	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 07:58	N5Y3	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-7.5-T3 Lab Sample ID: 570-67588-6 Date Collected: 08/16/21 08:40 **Matrix: Solid** 

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			13.073 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 04:44	A9VE	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 08:18	N5Y3	ECL 1
	Instrumen	t ID: GC50								

**Client Sample ID: S-10-T3** Lab Sample ID: 570-67588-7 Date Collected: 08/16/21 08:45 **Matrix: Solid** 

Dil Batch Batch Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount **Amount** Number or Analyzed Analyst Lab Total/NA Prep 5035 6.586 g 5 g 172545 08/18/21 19:04 EDZ4 ECL 2 Total/NA Analysis NWTPH-Gx 5 g 5 mL 174393 08/26/21 05:09 A9VE ECL 2 Instrument ID: GC22 Silica Gel Cleanup 3550C SGC 10 mL 174070 08/24/21 18:22 USUL ECL 1 Prep 10.18 g Silica Gel Cleanup NWTPH-Dx 175226 08/29/21 22:16 A1W ECL 1 Analysis 10 Instrument ID: GC50

Client Sample ID: S-12.5-T3 Lab Sample ID: 570-67588-8 Date Collected: 08/16/21 08:50 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.858 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 05:35	A9VE	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.01 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 22:38	A1W	ECL 1
	Instrumen	t ID: GC50								

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Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-T1

Client: Cardno, Inc

Date Collected: 08/16/21 09:00 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-9

Lab Sample ID: 570-67588-11

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.964 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC22		1	5 g	5 mL	174393	08/26/21 06:01	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 22:58	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-T1 Lab Sample ID: 570-67588-10 Date Collected: 08/16/21 09:05 **Matrix: Solid** 

Date Received: 08/17/21 10:10

Dil Initial Final Batch Batch Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 172545 Prep 6.921 g 5 g 08/18/21 19:04 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** ECL 2 5 g 5 mL 174393 08/26/21 06:27 A9VE Instrument ID: GC22 Silica Gel Cleanup 3550C SGC 10.21 g 10 mL 174070 08/24/21 18:22 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175226 08/29/21 23:17 A1W ECL 1 1 Instrument ID: GC50

Client Sample ID: S-7.5-T1 Date Collected: 08/16/21 09:10

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.868 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 07:43	A9VE	ECL 2
	Instrumer	nt ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 23:38	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-10-T1 Lab Sample ID: 570-67588-12 **Matrix: Solid** 

Date Collected: 08/16/21 09:15 Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.34 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 08:09	A9VE	ECL 2
	Instrumer	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.00 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 23:58	A1W	ECL 1
	Instrumer	t ID: GC50								

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**Matrix: Solid** 

# **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-T1

Date Collected: 08/16/21 09:20 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-13

Lab Sample ID: 570-67588-14

Lab Sample ID: 570-67588-15

Lab Sample ID: 570-67588-16

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.594 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC57		1	5 g	5 mL	174789	08/27/21 22:33	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 00:20	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-Q4

Date Collected: 08/16/21 09:40

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.845 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC57		1	5 g	5 mL	174789	08/27/21 12:52	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.04 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx at ID: GC50		1			175226	08/30/21 00:40	A1W	ECL 1

**Client Sample ID: S-5-Q4** 

Date Collected: 08/16/21 09:45

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.54 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 13:16	A9VE	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175226	08/30/21 01:00	A1W	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-7.5-Q4

Date Collected: 08/16/21 09:50

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.65 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 13:39	A9VE	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 01:20	A1W	ECL 1
	Instrumen	t ID: GC50								

**Matrix: Solid** 

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Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-Q4

Client: Cardno, Inc

Date Collected: 08/16/21 09:55 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-17

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.059 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	174430	08/26/21 18:44	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 02:22	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-12.5-Q4

Date Collected: 08/16/21 10:00

Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-18

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		· <del></del> ·	3.848 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174430	08/26/21 18:21	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 02:42	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-14.5-A8

Date Collected: 08/16/21 08:15

Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-19

Lab Sample ID: 570-67588-20

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.435 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	174430	08/26/21 17:57	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 03:02	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-P3

Date Collected: 08/16/21 10:15

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.106 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174789	08/27/21 19:01	A9VE	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.25 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	20			175333	08/30/21 17:04	UJ3K	ECL 1
	Instrumer	t ID: GC50								

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# **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-Q2

Date Collected: 08/16/21 11:00 Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-21

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.966 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		20	5 mL	5 mL	174789	08/27/21 22:56	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	174079	08/24/21 18:32	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 01:59	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-5-Q2

Date Collected: 08/16/21 11:05

Batch

Type

Prep

Analysis

Analysis

NWTPH-Dx

Instrument ID: GC48

Date Received: 08/17/21 10:10

**Prep Type** 

Total/NA

Total/NA

Silica Gel Cleanup

Silica Gel Cleanup

Lab Sample ID: 570-67588-22 Matrix: Solid

Dil Initial Final Batch Batch Prepared Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab 5035 7.104 g 5 g 172545 08/18/21 19:04 EDZ4 ECL 2 **NWTPH-Gx** 5 g 5 mL 174789 08/27/21 14:49 A9VE ECL 2 Instrument ID: GC57 3550C SGC 10.08 g 10 mL 174079 08/24/21 18:32 USUL ECL 1

175228

Client Sample ID: S-7.5-Q2 Date Collected: 08/16/21 11:10

Date Received: 08/17/21 10:10

Lab Sample ID: 570-67588-23

Lab Sample ID: 570-67588-24

08/30/21 02:20 N1A

**Matrix: Solid** 

**Matrix: Solid** 

ECL 1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.613 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	174789	08/27/21 15:13	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.27 g	10 mL	174079	08/24/21 18:32	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 02:42	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-Q2

Date Collected: 08/16/21 11:15

Date Received: 08/17/21 10:10

Prep Type Total/NA Total/NA	Batch Type Prep Analysis Instrumen	Batch  Method  5035  NWTPH-Gx at ID: GC57	Run	Dil Factor	Initial Amount 7.669 g 5 g	Final Amount 5 g 5 mL	Batch Number 172545 174789	Prepared or Analyzed 08/18/21 19:04 08/27/21 15:36		ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	174079	08/24/21 18:32	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx at ID: GC48		1			175228	08/30/21 03:48	N1A	ECL 1

**Eurofins Calscience LLC** 

Page 36 of 45

# **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-Q2

Lab Sample ID: 570-67588-25 Date Collected: 08/16/21 11:20 **Matrix: Solid** 

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.519 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	174789	08/27/21 15:59	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174079	08/24/21 18:32	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 04:10	N1A	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-16-P3 Lab Sample ID: 570-67588-26 Date Collected: 08/16/21 10:25 **Matrix: Solid** 

Date Received: 08/17/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.038 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	174789	08/27/21 16:23	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	174079	08/24/21 18:32	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx		1			175228	08/30/21 04:31	N1A	ECL 1

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

# **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-11-21

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# **Method Summary**

Client: Cardno, Inc Job ID: 570-67588-1

Project/Site: ExxonMobil ADC / 0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5035	Closed System Purge and Trap	SW846	ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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# de Guia, Cecile

From: Laina Cole <laina.cole@cardno.com>
Sent: Tuesday, August 31, 2021 10:45 AM

**To:** de Guia, Cecile; Cam Penner-Ash; Bobby Thompson

**Subject:** RE: Eurofins Calscience sample confirmation files from 570-67588-1 ExxonMobil ADC /

0314476040

EXTERNAL EMAIL*

Cecile,

Please use the information on the COC (S-7.5-T1).

Thank you,

#### Laina Cole

SENIOR PROGRAM COORDINATOR | BRANCH SAFETY OFFICER CARDNO

Direct +1 206 394 7225 Office +1 800 499 8950
Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108
Email | aina.cole@cardno.com | Web www.cardno.com |

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From: Cecile de Guia < Cecile.deGuia@eurofinset.com>

Sent: Tuesday, August 31, 2021 10:16 AM

To: Cam Penner-Ash <cameron.penner-ash@cardno.com>; Laina Cole <laina.cole@cardno.com>; Bobby Thompson

<robert.thompson@cardno.com>

Subject: Eurofins Calscience sample confirmation files from 570-67588-1 ExxonMobil ADC / 0314476040

Importance: High

Hello,

Attached please find the sample confirmation files for job 570-67588-1; ExxonMobil ADC / 0314476040

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): 570-67588-11. The 4oz container label list S-7.5-J3, while the COC lists S-7.5-T1. Please advise which one to follow.

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I missed to email the anomaly and the sample confirmation file when I finished reviewign the login. Please respond ASAP so I can submit the report today.

I apologize to having you rush your response.

Thank you.

### Cecile de Guia

Project Manager

**Eurofins Calscience LLC** Phone: 714-895-5494

E-mail: Cecile.deGuia@eurofinset.com

www.eurofinsus.com/env



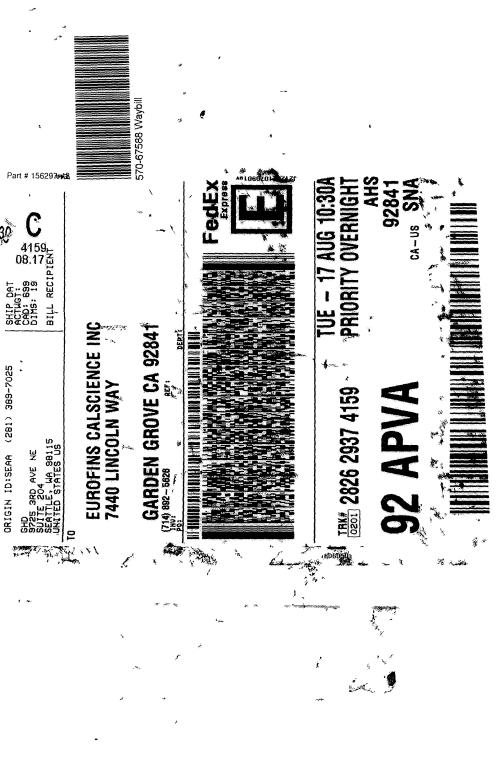
Reference: [570-236357] Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

	***************************************			C		WHITE SETTING SECTION	
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eurofins	7440 LINCOLN WAY		Site	Name		Everett Bulk Plant	CHAIN OF CUSTODY RECORD
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	TEL: (714) 895-5494 . FAX: (714) 894-7501	C: (714) 894-7501	Retail	I Project (MRN)			PAGE: 2 OF 2
			Majo	Major Project (AFE)			
ExxonMobil Engr	Jennifer Sedlachek		Proje	Project Name	ш	ExxonMobil ADC / 0314476040	
LABORATORY CLIENT:  Cardno					GLOBAL ID # COELT LOG CODI	3 CODE.	P O 0314476040 Agreement# A2604415
ADDRESS: 309 South Cloverdale Street Unit A13	et Unit A13				PROJECT CONTACT		7.86.03E
Seattle, WA 98108					Robert Thompson	Robert Thompson	+ + + + + + + + + + + + + + + + + + +
206-510-5855	, NA	robert.thompson@cardno.com	son@ca	ırdno.com	SAMPLEK(S): Tau: F	revou, Joint Constante	Tenor≠ 1
SAME DAY 24 HR	☐48 HR ☐72 HR	☐ 5 DAYS ☑ 10	☑ 10 DAYS			REQUES	REQUESTED ANALYSIS
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SPECIAL INSTRUCTIONS. Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method.	n Silica Gel Cleanup - 0.5 grams	s. Group results by sample, n	ot by anal	ysis method.	as Gasol		
include % Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in mg/kg. Renort for laina rolla@nardno.com robest thompson@cardno.com and camaron pagnatz-ash@cardno.com	nt correction. Report to: laina.c	cole@cardno.com, robert.thompso.	mpson@c	ardno.com	HqT )		
LAS: SAMPLE ID USE: ONLY.		SAMPLING DATE TIME	MAT-	NO. OF CONT	ertorm Ms WTPH-G. UWTPH_D		CONTAINER TYPE
20 S-2.5- P3	P3	8/1/2021 1015	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar
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1 -C 10	170	011 10004 1100	<b>5</b> q			2 Sealing Districted Annual Vol. (1997)	ALL THE LIBERT OF STREET STREE
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Client: Cardno, Inc

List Source: Eurofins Calscience LLC

Job Number: 570-67588-1

Login Number: 67588 List Number: 1

Creator: Ramos, Maribel

Creator. Namos, Mariber		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-67613-1

Client Project/Site: ExxonMobi ADC / 031447040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Suria

Authorized for release by: 9/1/2021 3:04:40 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# **Sample Summary**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

570-67613-29

S-12.5-L3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67613-1	S-2.5-N1	Solid	08/17/21 10:35	08/18/21 10:15
570-67613-2	S-5-N1	Solid	08/17/21 10:40	08/18/21 10:15
570-67613-3	S-10-N1	Solid	08/17/21 10:45	08/18/21 10:15
570-67613-4	S-12.5-N1	Solid	08/17/21 10:50	08/18/21 10:15
570-67613-5	S-2.5-M2	Solid	08/17/21 10:55	08/18/21 10:15
570-67613-6	S-5-M2	Solid	08/17/21 11:00	08/18/21 10:15
570-67613-7	S-7.5-M2	Solid	08/17/21 11:05	08/18/21 10:15
570-67613-8	S-10-M2	Solid	08/17/21 11:10	08/18/21 10:15
570-67613-9	S-12.5-M2	Solid	08/17/21 11:15	08/18/21 10:15
570-67613-10	S-2.5-L1	Solid	08/17/21 11:30	08/18/21 10:15
570-67613-11	S-5-L1	Solid	08/17/21 11:35	08/18/21 10:15
570-67613-12	S-7.5-L1	Solid	08/17/21 11:40	08/18/21 10:15
570-67613-13	S-10-L1	Solid	08/17/21 11:45	08/18/21 10:15
570-67613-14	S-12.5-L1	Solid	08/17/21 11:50	08/18/21 10:15
570-67613-15	S-2.5-K2	Solid	08/17/21 12:20	08/18/21 10:15
570-67613-16	S-5-K2	Solid	08/17/21 12:25	08/18/21 10:15
570-67613-17	S-7.5-K2	Solid	08/17/21 12:30	08/18/21 10:15
570-67613-18	S-10-K2	Solid	08/17/21 12:35	08/18/21 10:15
570-67613-19	S-12.5-K2	Solid	08/17/21 12:40	08/18/21 10:15
570-67613-20	S-2.5-M4	Solid	08/17/21 13:00	08/18/21 10:15
570-67613-21	S-5-M4	Solid	08/17/21 13:05	08/18/21 10:15
570-67613-22	S-7.5-M4	Solid	08/17/21 13:10	08/18/21 10:15
570-67613-23	S-10-M4	Solid	08/17/21 13:15	08/18/21 10:15
570-67613-24	S-12.5-M4	Solid	08/17/21 13:20	08/18/21 10:15
570-67613-25	S-2.5-L3	Solid	08/17/21 13:25	08/18/21 10:15
570-67613-26	S-5-L3	Solid	08/17/21 13:30	08/18/21 10:15
570-67613-27	S-7.5-L3	Solid	08/17/21 13:35	08/18/21 10:15
570-67613-28	S-10-L3	Solid	08/17/21 13:40	08/18/21 10:15

Solid

08/17/21 13:45 08/18/21 10:15

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# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

#### **Qualifiers**

**GC VOA** 

Qualifier Qualifier Description

S1- Surrogate recovery exceeds control limits, low biased.

**GC Semi VOA** 

Qualifier Qualifier Description

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Calscience LLC

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## Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

Job ID: 570-67613-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-67613-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/18/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-175094. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-175182. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-7.5-M2 (570-67613-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-10-L3 (570-67613-28). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-175493. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-12.5-N1 (570-67613-4). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits. Initial analysis was reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: S-7.5-M4 (570-67613-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-174079 and analytical batch 570-175228 was outside control limits. Sample matrix interference is suspected.

Method NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: S-5-L3 (570-67613-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Project/Site: Exxonition ADC /	031447040					
Client Sample ID: S-2.5-	N1				Lab Sample ID: 5	70-67613-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.86		0.20	mg/Kg	1   □ NWTPH-Gx	Total/NA
TPH as Diesel Range	13		5.7	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-5-N	1				Lab Sample ID: 5	70-67613-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	730		74	mg/Kg	250 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	160		7.1	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	140		7.1	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-10-N	<b>I</b> 1				Lab Sample ID: 5	70-67613-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1.8		0.21	mg/Kg	1 ☆ NWTPH-Gx	Total/NA
TPH as Diesel Range	14		6.5	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	13		6.5	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-12.5	-N1				Lab Sample ID: 5	70-67613-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Diesel Range	15		6.2	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
TDU - Material O'l Daniel	44		0.0		A W ANATENLE	Cleanup
TPH as Motor Oil Range	11		6.2	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
lient Sample ID: S-2.5-	M2				Lab Sample ID: 5	<u> </u>
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.96		0.20	mg/Kg	1 = NWTPH-Gx	Total/NA
TPH as Diesel Range	160		5.7	mg/Kg	1 🌣 NWTPH-Dx	Silica Gel
, and the second				3 3		Cleanup
TPH as Motor Oil Range	23		5.7	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-5-M	2				Lab Sample ID: 5	70-67613-
Analyte		Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	190		42	mg/Kg	100 ☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	1600		15	mg/Kg	2 ☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	650		15	mg/Kg	2 🌣 NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-7.5-	M2				Lab Sample ID: 5	70-67613-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	5.1		0.46	mg/Kg	1 ☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	270		10	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
TD11 11 0" =				a	,	Cleanup
TDH as Motor Oil Pango	450		10	malka	1 ☆ NIMTDLI Dv	Ciliaa Cal

This Detection Summary does not include radiochemical test results.

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TPH as Motor Oil Range

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Silica Gel Cleanup

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mg/Kg

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**Detection Summary** Client: Cardno, Inc Job ID: 570-67613-1 Project/Site: ExxonMobi ADC / 031447040 Client Sample ID: S-10-M2 Lab Sample ID: 570-67613-8 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) NWTPH-Gx 47 mg/Kg 100 ☆ 89 Total/NA 970 NWTPH-Dx TPH as Diesel Range 9.6 mg/Kg ☼ Silica Gel Cleanup TPH as Motor Oil Range 420 9.6 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-12.5-M2 Lab Sample ID: 570-67613-9 Analyte Result Qualifier Unit Dil Fac D Method RL Prep Type TPH as Gasoline (C4-C13) 0.48 0.24 NWTPH-Gx Total/NA mg/Kg TPH as Diesel Range 17 6.1 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup TPH as Motor Oil Range 18 6.1 1 ☼ NWTPH-Dx mg/Kg Silica Gel Cleanup Client Sample ID: S-2.5-L1 Lab Sample ID: 570-67613-10 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 0.42 0.23 mg/Kg ₩ NWTPH-Gx Total/NA TPH as Diesel Range 16 6.2 1 ☼ NWTPH-Dx mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 86 6.2 1 ☆ NWTPH-Dx mg/Kg Silica Gel Cleanup Client Sample ID: S-5-L1 Lab Sample ID: 570-67613-11 Dil Fac D Method Analyte Result Qualifier RL Unit **Prep Type** TPH as Gasoline (C4-C13) Total/NA 210 56 250 ₽ NWTPH-Gx mg/Kg TPH as Diesel Range 660 NWTPH-Dx 6.4 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 380 6.4 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-7.5-L1 Lab Sample ID: 570-67613-12 Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 1.3 0.95 ₩ NWTPH-Gx Total/NA mg/Kg NWTPH-Dx TPH as Diesel Range 35 16 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 59 16 1 ☼ NWTPH-Dx Silica Gel mg/Kg Cleanup Client Sample ID: S-10-L1 Lab Sample ID: 570-67613-13

Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 4.9 0.24 mg/Kg ☼ NWTPH-Gx Total/NA ⇔ NWTPH-Dx Silica Gel TPH as Diesel Range 84 6.7 mg/Kg Cleanup

Cleanup
TPH as Motor Oil Range 51 6.7 mg/Kg 1 × NWTPH-Dx Silica Gel
Cleanup

Client Sample ID: S-12.5-L1

Lab Sample ID: 570-67613-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.50		0.29	mg/Kg	1	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	12		7.3	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

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Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-12.5-	L1 (Contin	ued)			Lab Sam	ple ID: 57	0-67613-14
Analyte		Qualifier	RL 7.3	Unit ma/Ka	Dil Fac D	Method NWTPH-Dx	Prep Type
TPH as Motor Oil Range	8.5		7.3	mg/Kg	1 \$	NWTPH-DX	Silica Gel Cleanup
Client Sample ID: S-2.5-K	(2				Lab Sam	ple ID: 57	0-67613-15
Analyte	Result	Qualifier	RL	Unit	Dil Fac D		Prep Type
TPH as Gasoline (C4-C13)	460		56	mg/Kg	250 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	5100		62	mg/Kg	10 ≎	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	400		62	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-K2					Lab Sam	ple ID: 57	0-67613-16
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1100		110	mg/Kg	500 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	14000		58	mg/Kg	10 ☼	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	490		58	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-K	(2				Lab Sam	ple ID: 57	0-67613-17
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.3		0.22	mg/Kg	1 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range	19		6.1	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	15		6.1	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-K	2				Lab Sam	ple ID: 57	0-67613-18
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.2		0.22	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	34		6.5	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	17		6.5	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel
_				3 3			Cleanup
Client Sample ID: S-12.5-	K2				Lab Sam	ple ID: 57	0-67613-19
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	580		79	mg/Kg		NWTPH-Gx	Total/NA
TPH as Motor Oil Range 	12		8.5	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-N	14				Lab Sam	ple ID: 57	0-67613-20
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Diesel Range - DL	13000		280	mg/Kg	50 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	2200		280	mg/Kg	50 ♯	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

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Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-5-M4	,				Lab Sample ID: 57	0-67613-21
Analyte		Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1100		120	mg/Kg	500 × NWTPH-Gx	Total/NA
TPH as Diesel Range	7900		29	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
9				0 0		Cleanup
TPH as Motor Oil Range	1400		29	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
_						Cleanup
Client Sample ID: S-7.5-N	<b>14</b>				Lab Sample ID: 57	0-67613-22
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Diesel Range	5500		120	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	7300		120	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel
_						Cleanup
Client Sample ID: S-10-M	4				Lab Sample ID: 57	0-67613-23
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	620		71	mg/Kg	250 🔅 NWTPH-Gx	Total/NA
TPH as Motor Oil Range	13		6.9	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
_						Cleanup
Client Sample ID: S-12.5-	-M4				Lab Sample ID: 57	0-67613-24
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1.0		0.86	mg/Kg	1 ♥ NWTPH-Gx	Total/NA
TPH as Motor Oil Range	58		15	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
_						Cleanup
Client Sample ID: S-2.5-L	.3				Lab Sample ID: 57	0-67613-25
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1.4	<u> </u>	0.34	mg/Kg	1 ☆ NWTPH-Gx	Total/NA
TPH as Diesel Range	8600		29	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	2500		29	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
_						Cleanup
Client Sample ID: S-5-L3					Lab Sample ID: 57	0-67613-26
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Diesel Range - DL	7000		64	mg/Kg	10   □ NWTPH-Dx	Silica Gel
TDU M-1 0'I 5	222		0.4		40 • • • • • • • • • • • • • • • • •	Cleanup
TPH as Motor Oil Range - DL	2600		64	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-L	.3				Lab Sample ID: 57	0-67613-27
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.34		0.33	mg/Kg	1 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	170		6.7	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
Č				5 5		Cleanup
TPH as Motor Oil Range	360		6.7	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
						Cleanup

This Detection Summary does not include radiochemical test results.

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# **Detection Summary**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-10-L3	Lab Sample ID: 570-67613-28
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Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	210		59	mg/Kg	250	✡	NWTPH-Gx	Total/NA
TPH as Diesel Range	12		6.4	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	110		6.4	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-12.5-L3 Lab Sample ID: 570-67613-29

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Motor Oil Range	140	13	mg/Kg	1	NWTPH-Dx	Silica Gel Cleanup

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Lab Sample ID: 570-67613-1

Matrix: Solid

Job ID: 570-67613-1

Date Collected: 08/17/21 10:35 Date Received: 08/18/21 10:15

Client Sample ID: S-2.5-N1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.86		0.20	mg/Kg	<u></u>	08/19/21 18:16	08/31/21 12:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/19/21 18:16	08/31/21 12:48	1

Method: NWTPH-Dx - No	rthwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13		5.7	mg/Kg	— <u></u>	08/24/21 18:14	08/29/21 14:56	1
TPH as Motor Oil Range	ND		5.7	mg/Kg	₩	08/24/21 18:14	08/29/21 14:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150			08/24/21 18:14	08/29/21 14:56	1

Client Sample ID: S-5-N1

Date Collected: 08/17/21 10:40

Lab Sample ID: 570-67613-2

Matrix: Solid

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - North	nwest - volatile Result (		n Products (GC RL	') Unit	_	Duamanad	Amalumad	Dil Foo
Analyte	Result	Quaimer	KL	Unit	ט	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	730		74	mg/Kg	₽	08/19/21 18:16	08/28/21 13:59	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		50 - 150			08/19/21 18:16	08/28/21 13:59	250

Method: NWTPH-Dx - Northwe	st - Semi-V	olatile Petr	oleum Prod	ducts (GC) - Silica Ge	I C	leanup		
Analyte	Result	Qualifier	RL	Unit I	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	160		7.1	mg/Kg	<b>#</b>	08/24/21 18:14	08/29/21 15:16	1
TPH as Motor Oil Range	140		7.1	mg/Kg	<b>☆</b> (	08/24/21 18:14	08/29/21 15:16	1
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150		-	<b>Prepared</b> 08/24/21 18:14	Analyzed 08/29/21 15:16	Dil Fac

Client Sample ID: S-10-N1

Date Collected: 08/17/21 10:45

Lab Sample ID: 570-67613-3

Matrix: Solid

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - North	west - Volatile	e Petroleu	m Products (GC	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.8		0.21	mg/Kg	≎	08/19/21 18:16	08/28/21 13:06	1
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	Limits 50 - 150			Prepared 08/19/21 18:16	Analyzed 08/28/21 13:06	Dil Fac

Method: NWTPH-Dx - North	thwest - Semi-Volatile P	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	14	6.5	mg/Kg	₩	08/24/21 18:14	08/29/21 15:36	1
TPH as Motor Oil Range	13	6.5	mg/Kg	☼	08/24/21 18:14	08/29/21 15:36	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	91	50 - 150			08/24/21 18:14	08/29/21 15:36	1

Job ID: 570-67613-1

Client: Cardno, Inc Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-12.5-N1

Date Collected: 08/17/21 10:50 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67613-4

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.28	mg/Kg	<del>*</del>	08/19/21 18:16	08/28/21 13:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1-	50 - 150			08/19/21 18:16	08/28/21 13:29	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	15		6.2	mg/Kg	<u></u>	08/24/21 18:14	08/29/21 15:55	1
TPH as Motor Oil Range	11		6.2	mg/Kg	₽	08/24/21 18:14	08/29/21 15:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	91		50 - 150			08/24/21 18:14	08/29/21 15:55	1

Lab Sample ID: 570-67613-5 **Client Sample ID: S-2.5-M2** Date Collected: 08/17/21 10:55

Date Received: 08/18/21 10:15

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.96 0.20 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 80 50 - 150 08/19/21 18:16 08/28/21 21:45

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	160		5.7	mg/Kg	<u></u>	08/24/21 18:14	08/29/21 16:15	1	
TPH as Motor Oil Range	23		5.7	mg/Kg	₩	08/24/21 18:14	08/29/21 16:15	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	95		50 - 150			08/24/21 18:14	08/29/21 16:15	1	

Client Sample ID: S-5-M2 Lab Sample ID: 570-67613-6

Date Collected: 08/17/21 11:00 Date Received: 08/18/21 10:15

**Matrix: Solid** 

west - Volatile	e Petroleur	m Products (GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
190		42	mg/Kg	₩	08/19/21 18:16	08/31/21 17:39	100
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
88		50 - 150			08/19/21 18:16	08/31/21 17:39	100
	Result 190 %Recovery	Result Qualifier 190  %Recovery Qualifier	190 42  %Recovery Qualifier Limits	Result Qualifier RL Unit mg/Kg  %Recovery Qualifier Limits	Result 190         Qualifier RL 42         Unit mg/Kg         D mg/Kg           %Recovery Qualifier Limits         Limits	Result 190         Qualifier RL 42         Unit mg/Kg         D ∞         Prepared 08/19/21 18:16           %Recovery Qualifier Limits         Limits         Prepared	Result 190         Qualifier Al 2         Unit mg/Kg         D wit mg/Kg         Prepared 08/19/21 18:16         Analyzed 08/31/21 17:39           %Recovery Qualifier Limits         Prepared Analyzed         Analyzed

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile	e Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualif	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1600	15	mg/Kg	₽	08/24/21 18:14	08/29/21 16:35	2
TPH as Motor Oil Range	650	15	mg/Kg	₩	08/24/21 18:14	08/29/21 16:35	2
Surrogate n-Octacosane (Surr)	%Recovery Qualit	fier <u>Limits</u> 50 - 150			Prepared 08/24/21 18:14	Analyzed 08/29/21 16:35	Dil Fac

Project/Site: ExxonMobi ADC / 031447040

Client: Cardno, Inc

**Client Sample ID: S-7.5-M2** 

Date Collected: 08/17/21 11:05 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67613-7 **Matrix: Solid** 

Method: NWTPH-Gx - North	nwest - Volatile	Petroleur	n Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	5.1		0.46	mg/Kg	<del>-</del>	08/19/21 18:16	08/28/21 18:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	48	S1-	50 - 150			08/19/21 18:16	08/28/21 18:13	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	270		10	mg/Kg	<u></u>	08/24/21 18:14	08/29/21 16:55	1
TPH as Motor Oil Range	450		10	mg/Kg	₩	08/24/21 18:14	08/29/21 16:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			08/24/21 18:14	08/29/21 16:55	1

**Client Sample ID: S-10-M2** Lab Sample ID: 570-67613-8 Date Collected: 08/17/21 11:10 **Matrix: Solid** 

Date Received: 08/18/21 10:15

Date Received. 00/10/21 10.	10							
Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleui	m Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	89		47	mg/Kg	₩	08/19/21 18:16	08/31/21 15:20	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150			08/19/21 18:16	08/31/21 15:20	100

Method: NWTPH-Dx - Nort				. ,	Gel (	•		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	970		9.6	mg/Kg	— <u></u>	08/24/21 18:14	08/29/21 17:14	1
TPH as Motor Oil Range	420		9.6	mg/Kg	₩	08/24/21 18:14	08/29/21 17:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		50 - 150			08/24/21 18:14	08/29/21 17:14	1

Lab Sample ID: 570-67613-9 Client Sample ID: S-12.5-M2 Date Collected: 08/17/21 11:15 **Matrix: Solid** 

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Northw	est - Volatile	<b>Petroleun</b>	n Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.48		0.24	mg/Kg	≎	08/19/21 18:16	08/31/21 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150			08/19/21 18:16	08/31/21 13:39	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup										
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
TPH as Diesel Range	17	6.1	mg/Kg	₽	08/24/21 18:14	08/29/21 17:34	1			
TPH as Motor Oil Range	18	6.1	mg/Kg	☼	08/24/21 18:14	08/29/21 17:34	1			
Surrogate n-Octacosane (Surr)	%Recovery Qualifier 98	Limits 50 - 150			Prepared 08/24/21 18:14	Analyzed 08/29/21 17:34	Dil Fac			

Client Sample ID: S-2.5-L1

Date Collected: 08/17/21 11:30 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67613-10

Matrix: Solid

Method: NWTPH-Gx - Northw	est - Volatile Petroleum P	roducts (GC)
Analyte	Result Qualifier	RL

Unit D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 08/19/21 18:16 08/28/21 19:23 0.42 0.23 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 08/19/21 18:16 08/28/21 19:23 87

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac **TPH as Diesel Range** 16 6.2 mg/Kg 08/24/21 18:14 08/29/21 17:54 6.2 mg/Kg 08/24/21 18:14 08/29/21 17:54 **TPH as Motor Oil Range** 86

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/24/21 18:14 08/29/21 17:54 98

Client Sample ID: S-5-L1 Lab Sample ID: 570-67613-11

Date Collected: 08/17/21 11:35 Date Received: 08/18/21 10:15 Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 08/19/21 18:16 08/28/21 19:47 TPH as Gasoline (C4-C13) 210 mg/Kg 250

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 69 50 - 150 08/19/21 18:16 08/28/21 19:47 250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	660	6.4	mg/Kg	— <u></u>	08/24/21 18:14	08/29/21 18:54	1
TPH as Motor Oil Range	380	6.4	mg/Kg	≎	08/24/21 18:14	08/29/21 18:54	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: S-7.5-L1 Lab Sample ID: 570-67613-12

50 - 150

Date Collected: 08/17/21 11:40 Date Received: 08/18/21 10:15

n-Octacosane (Surr)

Matrix: Solid

08/24/21 18:14 08/29/21 18:54

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

95

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 1.3 0.95 mg/Kg 08/19/21 18:16 08/31/21 14:04

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 50 - 150 08/19/21 18:16 08/31/21 14:04 4-Bromofluorobenzene (Surr) 66

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 35 16 mg/Kg 08/24/21 18:14 08/29/21 19:14 16 08/24/21 18:14 08/29/21 19:14 **TPH as Motor Oil Range 59** mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/24/21 18:14 08/29/21 19:14 97

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-10-L1

Client: Cardno, Inc

Date Collected: 08/17/21 11:45 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67613-13

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (C	201	
Method: NVV   FII-OX - NOITHWEST - VOIGHE FEHOLEUM FIOUUCIS (C	301	

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	4.9		0.24	mg/Kg	<u></u>	08/19/21 18:16	08/28/21 20:34	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 51 50 - 150 08/19/21 18:16 08/28/21 20:34

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	84	6.7	mg/Kg	— <u></u>	08/24/21 18:14	08/29/21 19:35	1
TPH as Motor Oil Range	51	6.7	mg/Kg	₩	08/24/21 18:14	08/29/21 19:35	1
	0/5						5

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/24/21 18:14 08/29/21 19:35 n-Octacosane (Surr) 100 50 - 150

Client Sample ID: S-12.5-L1

Date Collected: 08/17/21 11:50

Date Received: 08/18/21 10:15

Lab Sample ID: 570-67613-14

08/24/21 18:14 08/29/21 19:55

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.50	0.29	mg/Kg	≎	08/19/21 18:16	08/28/21 20:58	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 75 50 - 150 08/19/21 18:16 08/28/21 20:58

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	12	7.3	mg/Kg	— <u></u>	08/24/21 18:14	08/29/21 19:55	1
TPH as Motor Oil Range	8.5	7.3	mg/Kg	₽	08/24/21 18:14	08/29/21 19:55	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: S-2.5-K2 Lab Sample ID: 570-67613-15

50 - 150

Date Collected: 08/17/21 12:20

n-Octacosane (Surr)

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

95

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	460		56	mg/Kg	☆	08/19/21 18:16	08/28/21 14:48	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate %Recovery Qualifier Prepared Analyzed 4-Bromofluorobenzene (Surr) 73 50 - 150 08/19/21 18:16 08/28/21 14:48 250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5100		62	mg/Kg	≎	08/24/21 18:14	08/30/21 16:04	10
TPH as Motor Oil Range	400		62	mg/Kg	₩	08/24/21 18:14	08/30/21 16:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
n-Octacosane (Surr)	111		50 - 150	08/24/21 18:14 08/30/21 16:04	10

**Matrix: Solid** 

Lab Sample ID: 570-67613-16

**Matrix: Solid** 

Job ID: 570-67613-1

Date Collected: 08/17/21 12:25 Date Received: 08/18/21 10:15

Client Sample ID: S-5-K2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1100		110	mg/Kg	<del>-</del>	08/19/21 18:16	08/28/21 15:11	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150			08/19/21 18:16	08/28/21 15:11	500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	14000		58	mg/Kg	<u></u>	08/24/21 18:14	08/30/21 16:24	10
TPH as Motor Oil Range	490		58	mg/Kg	₩	08/24/21 18:14	08/30/21 16:24	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	128		50 - 150			08/24/21 18:14	08/30/21 16:24	10

Client Sample ID: S-7.5-K2 Lab Sample ID: 570-67613-17 Date Collected: 08/17/21 12:30

Date Received: 08/18/21 10:15

**Matrix: Solid** 

Method: NWTPH-Gx - Nortl Analyte		Petroleur Qualifier	n Products (GC RL	Unit	n	Prepared	Analyzed	Dil Fac
Analyte	itesuit	Qualifiei			=	Fiepaieu	Allalyzeu	Diriac
TPH as Gasoline (C4-C13)	1.3		0.22	mg/Kg	≎	08/19/21 18:16	08/28/21 21:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/19/21 18:16	08/28/21 21:22	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	19		6.1	mg/Kg	<u></u>	08/24/21 18:14	08/29/21 20:56	1
TPH as Motor Oil Range	15		6.1	mg/Kg	₽	08/24/21 18:14	08/29/21 20:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		50 - 150			08/24/21 18:14	08/29/21 20:56	1

Lab Sample ID: 570-67613-18 Client Sample ID: S-10-K2

Date Collected: 08/17/21 12:35 Date Received: 08/18/21 10:15

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	4.2		0.22	mg/Kg	₽	08/19/21 18:16	08/29/21 00:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150			08/19/21 18:16	08/29/21 00:53	1

nwest - Semi-Volatil	e Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Result Quali	ifier RL	Unit	D	Prepared	Analyzed	Dil Fac
34	6.5	mg/Kg	₽	08/24/21 18:14	08/29/21 21:16	1
17	6.5	mg/Kg	₩	08/24/21 18:14	08/29/21 21:16	1
				Prepared	Analyzed	Dil Fac
	Result Quali 34 17  %Recovery Quali	Result 34         Qualifier 6.5           17         6.5           %Recovery Qualifier Limits	Result         Qualifier         RL         Unit           34         6.5         mg/Kg           17         6.5         mg/Kg           %Recovery         Qualifier         Limits	Result         Qualifier         RL         Unit         D           34         6.5         mg/Kg         ☆           17         6.5         mg/Kg         ☆           %Recovery         Qualifier         Limits	34       6.5       mg/Kg       □ 08/24/21 18:14         17       6.5       mg/Kg       □ 08/24/21 18:14         %Recovery       Qualifier       Limits       Prepared	Result         Qualifier         RL         Unit         D mg/Kg         Prepared with the property of th

Client Sample ID: S-12.5-K2

Lab Sample ID: 570-67613-19

Matrix: Solid

Job ID: 570-67613-1

Date Collected: 08/17/21 12:40 Date Received: 08/18/21 10:15

Method: NWTPH-Gx - North	nwest - Volatile	Petroleui	m Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	580		79	mg/Kg	<del>-</del>	08/19/21 18:16	08/28/21 14:22	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61		50 - 150			08/19/21 18:16	08/28/21 14:22	250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		8.5	mg/Kg	<u></u>	08/24/21 18:14	08/29/21 21:36	1
TPH as Motor Oil Range	12		8.5	mg/Kg	₩	08/24/21 18:14	08/29/21 21:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150			08/24/21 18:14	08/29/21 21:36	1

Client Sample ID: S-2.5-M4 Lab Sample ID: 570-67613-20

Date Collected: 08/17/21 13:00
Date Received: 08/18/21 10:15

Matrix: Solid

Method: NWTPH-Gx - Norti	nwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.29	mg/Kg	₩	08/19/21 18:16	08/29/21 01:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150			08/19/21 18:16	08/29/21 01:17	1

Method: NWTPH-Dx - Norti			oleum Produ	cts (GC) - Silica	Gel (	Cleanup - DL		
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13000		280	mg/Kg	<del>-</del>	08/24/21 18:14	08/30/21 16:44	50
TPH as Motor Oil Range	2200		280	mg/Kg	₽	08/24/21 18:14	08/30/21 16:44	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	127		50 - 150			08/24/21 18:14	08/30/21 16:44	50

Client Sample ID: S-5-M4 Lab Sample ID: 570-67613-21

Date Collected: 08/17/21 13:05	Matrix: Solid
Date Received: 08/18/21 10:15	
Made at MMTDH O. Neath and Matella Barrata and Part (00)	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1100		120	mg/Kg	<del>*</del>	08/19/21 18:16	08/28/21 15:35	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/19/21 18:16	08/28/21 15:35	500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7900		29	mg/Kg	☼	08/24/21 18:29	08/29/21 22:41	5
TPH as Motor Oil Range	1400		29	mg/Kg	₩	08/24/21 18:29	08/29/21 22:41	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150			08/24/21 18:29	08/29/21 22:41	5

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-7.5-M4

Lab Sample ID: 570-67613-22

**Matrix: Solid** 

Date Collected: 08/17/21 13:10 Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleur	m Products (GC	<b>&gt;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.55	mg/Kg	<del>-</del>	08/19/21 18:16	08/29/21 01:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 150			08/19/21 18:16	08/29/21 01:40	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5500		120	mg/Kg	<u></u>	08/24/21 18:29	08/29/21 23:03	10
TPH as Motor Oil Range	7300		120	mg/Kg	₩	08/24/21 18:29	08/29/21 23:03	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	151	S1+	50 - 150			08/24/21 18:29	08/29/21 23:03	10

Client Sample ID: S-10-M4 Lab Sample ID: 570-67613-23 Date Collected: 08/17/21 13:15

Date Received: 08/18/21 10:15

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 620 mg/Kg 08/19/21 18:16 08/31/21 15:46 250 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 74 50 - 150 08/19/21 18:16 08/31/21 15:46 250

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produ	icts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.9	mg/Kg	<u></u>	08/24/21 18:29	08/29/21 23:24	1
TPH as Motor Oil Range	13		6.9	mg/Kg	☼	08/24/21 18:29	08/29/21 23:24	1
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			<b>Prepared</b> 08/24/21 18:29	Analyzed 08/29/21 23:24	Dil Fac

Client Sample ID: S-12.5-M4 Lab Sample ID: 570-67613-24 Date Collected: 08/17/21 13:20 **Matrix: Solid** 

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - North	nwest - Volatile Pe	troleum Products (GC	<b>;</b> )			
Analyte	Result Qua	alifier RL	Unit	D Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.0	0.86	mg/Kg	□ 08/19/21 18:1	08/29/21 02:50	1
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery Qua	Limits 50 - 150		<b>Prepared</b> 08/19/21 18:1	Analyzed 08/29/21 02:50	Dil Fac

Method: NWTPH-Dx - North	thwest - Semi-Vo	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		15	mg/Kg	<u></u>	08/24/21 18:29	08/29/21 23:46	1
TPH as Motor Oil Range	58		15	mg/Kg	₩	08/24/21 18:29	08/29/21 23:46	1
Surrogate n-Octacosane (Surr)	<b>%Recovery</b> 130	Qualifier	Limits 50 - 150			<b>Prepared</b> 08/24/21 18:29	Analyzed 08/29/21 23:46	Dil Fac

Project/Site: ExxonMobi ADC / 031447040

Lab Sample ID: 570-67613-25 Client Sample ID: S-2.5-L3

Date Collected: 08/17/21 13:25 **Matrix: Solid** 

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleui	m Products (G	C)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.4		0.34	mg/Kg	<u></u>	08/19/21 18:16	08/29/21 03:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150			08/19/21 18:16	08/29/21 03:14	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	8600		29	mg/Kg	— <u></u>	08/24/21 18:31	08/30/21 00:09	5
TPH as Motor Oil Range	2500		29	mg/Kg	₩	08/24/21 18:31	08/30/21 00:09	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125		50 - 150			08/24/21 18:31	08/30/21 00:09	5

Client Sample ID: S-5-L3 Lab Sample ID: 570-67613-26 **Matrix: Solid** 

Date Collected: 08/17/21 13:30

Date Received: 08/18/21 10:15

Analyte		Qualifier	m Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.45	mg/Kg	— <u> </u>	08/19/21 18:16	08/29/21 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/19/21 18:16	08/29/21 03:37	

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup - DL		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7000		64	mg/Kg	<u></u>	08/24/21 18:31	08/30/21 16:47	10
TPH as Motor Oil Range	2600		64	mg/Kg	₩	08/24/21 18:31	08/30/21 16:47	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	166	S1+	50 - 150			08/24/21 18:31	08/30/21 16:47	10

Lab Sample ID: 570-67613-27 Client Sample ID: S-7.5-L3 **Matrix: Solid** 

Date Collected: 08/17/21 13:35

Date Received: 08/18/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.34		0.33	mg/Kg	₽	08/19/21 18:16	08/29/21 04:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		50 - 150			08/19/21 18:16	08/29/21 04:01	1

Method: NWTPH-Dx - Northwe	est - Semi-V	olatile Petr	oleum Prod	ducts (GC) - Silica Gel	Cleanup		
Analyte	Result	Qualifier	RL	Unit D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	170		6.7	mg/Kg	08/24/21 18:31	08/30/21 00:52	1
TPH as Motor Oil Range	360		6.7	mg/Kg ☆	08/24/21 18:31	08/30/21 00:52	1
Surrogate n-Octacosane (Surr)	%Recovery 127	Qualifier	<b>Limits</b> 50 - 150		<b>Prepared</b> 08/24/21 18:31	Analyzed 08/30/21 00:52	Dil Fac

# **Client Sample Results**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-10-L3 Lab Sample ID: 570-67613-28

Date Collected: 08/17/21 13:40 Date Received: 08/18/21 10:15

Matrix: Solid

Method: NWTPH-Gx - North	nwest - Volatile	Petroleui	m Products (G0	<b>C</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	210		59	mg/Kg	<u></u>	08/19/21 18:16	08/28/21 15:58	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	48	S1-	50 - 150			08/19/21 18:16	08/28/21 15:58	250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	12		6.4	mg/Kg	<u></u>	08/24/21 18:31	08/30/21 01:14	1
TPH as Motor Oil Range	110		6.4	mg/Kg	₩	08/24/21 18:31	08/30/21 01:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116		50 - 150			08/24/21 18:31	08/30/21 01:14	1

Lab Sample ID: 570-67613-29 Client Sample ID: S-12.5-L3 Date Collected: 08/17/21 13:45

Date Received: 08/18/21 10:15

Matrix: Solid

_ Method: NWTPH-Gx - Norti	hwest - Volatile	Petroleui	n Products (GC	<del>;</del> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.58	mg/Kg	₩	08/19/21 18:16	08/29/21 04:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	50		50 - 150			08/19/21 18:16	08/29/21 04:24	1

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		13	mg/Kg	— <u></u>	08/24/21 18:31	08/30/21 01:36	1
TPH as Motor Oil Range	140		13	mg/Kg	≎	08/24/21 18:31	08/30/21 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	132		50 - 150			08/24/21 18:31	08/30/21 01:36	1

# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Solid Prep Type: Total/NA** 

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-67613-1	S-2.5-N1	78	
570-67613-2	S-5-N1	65	
570-67613-3	S-10-N1	69	
570-67613-4	S-12.5-N1	33 S1-	
570-67613-5	S-2.5-M2	80	
570-67613-6	S-5-M2	88	
570-67613-7	S-7.5-M2	48 S1-	
570-67613-8	S-10-M2	82	
570-67613-9	S-12.5-M2	67	
570-67613-10	S-2.5-L1	87	
570-67613-11	S-5-L1	69	
570-67613-12	S-7.5-L1	66	
570-67613-13	S-10-L1	51	
570-67613-14	S-12.5-L1	75	
570-67613-15	S-2.5-K2	73	
570-67613-16	S-5-K2	70	
570-67613-17	S-7.5-K2	110	
570-67613-18	S-10-K2	73	
570-67613-19	S-12.5-K2	61	
570-67613-20	S-2.5-M4	60	
570-67613-21	S-5-M4	76	
570-67613-22	S-7.5-M4	54	
570-67613-23	S-10-M4	74	
570-67613-24	S-12.5-M4	67	
570-67613-25	S-2.5-L3	75	
570-67613-26	S-5-L3	55	
570-67613-27	S-7.5-L3	63	
570-67613-28	S-10-L3	48 S1-	
570-67613-29	S-12.5-L3	50	
_CS 570-175094/3	Lab Control Sample	94	
_CS 570-175182/32	Lab Control Sample	76	
_CS 570-175493/3	Lab Control Sample	93	
LCSD 570-175094/4	Lab Control Sample Dup	80	
LCSD 570-175182/33	Lab Control Sample Dup	85	
LCSD 570-175493/4	Lab Control Sample Dup	90	
MB 570-175094/5	Method Blank	59	
MB 570-175094/6	Method Blank	54	
MB 570-175182/34	Method Blank	55	
MB 570-175493/5	Method Blank	79	
	Method Blank	79	
MB 570-175493/6	Mictiliod Dialik		

BFB = 4-Bromofluorobenzene (Surr)

## **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Matrix: Solid** Prep Type: Silica Gel Cleanup

		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-67613-1	S-2.5-N1	96	
570-67613-1 MS	S-2.5-N1	95	
570-67613-1 MS	S-2.5-N1	92	
570-67613-1 MSD	S-2.5-N1	101	
570-67613-1 MSD	S-2.5-N1	98	
570-67613-2	S-5-N1	97	
570-67613-3	S-10-N1	91	
570-67613-4	S-12.5-N1	91	
570-67613-5	S-2.5-M2	95	
570-67613-6	S-5-M2	91	
570-67613-7	S-7.5-M2	97	
570-67613-8	S-10-M2	104	
570-67613-9	S-12.5-M2	98	
570-67613-10	S-2.5-L1	98	
570-67613-11	S-5-L1	95	
570-67613-12	S-7.5-L1	97	
570-67613-13	S-10-L1	100	
570-67613-14	S-12.5-L1	95	
570-67613-15 - DL	S-2.5-K2	111	
570-67613-16 - DL	S-5-K2	128	
570-67613-17	S-7.5-K2	95	
570-67613-18	S-10-K2	97	
570-67613-19	S-12.5-K2	103	
570-67613-19 570-67613-20 - DL	S-2.5-M4	127	
570-67613-21	S-5-M4	124	
570-67613-21 MS	S-5-M4	117	
570-67613-21 MS	S-5-M4	125	
	S-5-M4		
570-67613-21 MSD 570-67613-21 MSD	S-5-M4	129 119	
570-67613-22	S-7.5-M4	151 S1+	
570-67613-23	S-10-M4	123	
570-67613-24	S-12.5-M4	130	
570-67613-25	S-2.5-L3	125	
570-67613-26 - DL	S-5-L3	166 S1+	
570-67613-27	S-7.5-L3	127	
570-67613-28	S-10-L3	116	
570-67613-29	S-12.5-L3	132	
LCS 570-174063/2-A	Lab Control Sample	101	
LCS 570-174063/6-A	Lab Control Sample	96	
_CS 570-174079/2-A	Lab Control Sample	129	
_CS 570-174079/6-A	Lab Control Sample	122	
_CSD 570-174063/3-A	Lab Control Sample Dup	93	
_CSD 570-174063/7-A	Lab Control Sample Dup	88	
LCSD 570-174079/3-A	Lab Control Sample Dup	119	
_CSD 570-174079/7-A	Lab Control Sample Dup	105	
MB 570-174063/1-A	Method Blank	99	
MB 570-174079/1-A	Method Blank	124	

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Client: Cardno, Inc

Project/Site: ExxonMobi ADC / 031447040

Lab Sample ID: MB 570-175094/5

Job ID: 570-67613-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

**Prep Type: Total/NA** 

**Prep Type: Total/NA** 

Client Sample ID: Method Blank

**Matrix: Solid** 

Analysis Batch: 175094

MB MB

Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 08/28/21 11:55 TPH as Gasoline (C4-C13) ND 0.25 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 59 50 - 150 08/28/21 11:55

Client Sample ID: Method Blank Lab Sample ID: MB 570-175094/6 Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 175094

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 08/28/21 12:19 20

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 54 50 - 150 08/28/21 12:19

Lab Sample ID: LCS 570-175094/3

**Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 175094** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.10 2.232 mg/Kg 106 77 - 128

LCS LCS

Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 94 50 - 150

Lab Sample ID: LCSD 570-175094/4

**Matrix: Solid** 

**Analysis Batch: 175094** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Gasoline (C4-C13) 2.13 2.215 104 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150 80

Lab Sample ID: MB 570-175182/34

**Matrix: Solid** 

**Analysis Batch: 175182** 

MB MB Result Qualifier RL D Analyte Unit Prepared Analyzed Dil Fac 0.25 08/28/21 23:42 TPH as Gasoline (C4-C13) ND mg/Kg

MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 55 50 - 150 08/28/21 23:42 4-Bromofluorobenzene (Surr)

Job ID: 570-67613-1

Prep Type: Total/NA

Client: Cardno, Inc

Project/Site: ExxonMobi ADC / 031447040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-175182/32 **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 175182** 

Spike LCS LCS %Rec. Result Qualifier Added Limits Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.13 2.172 mg/Kg 102 77 - 128

LCS LCS

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-175182/33 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 175182

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.10 2.175 mg/Kg 104 77 - 128 n

LCSD LCSD

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Client Sample ID: Method Blank Lab Sample ID: MB 570-175493/5 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 175493** 

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.25 08/31/21 08:13  $\overline{\mathsf{ND}}$ mg/Kg

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 79 50 - 150 08/31/21 08:13

Lab Sample ID: MB 570-175493/6

**Matrix: Solid** 

**Analysis Batch: 175493** 

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 5.0 mg/Kg 08/31/21 08:38

MB MB Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/31/21 08:38 79

Lab Sample ID: LCS 570-175493/3

**Matrix: Solid** 

**Analysis Batch: 175493** 

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Analyte 2.12 77 - 128 TPH as Gasoline (C4-C13) 1.762 mg/Kg 83

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 93

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**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

**Prep Type: Total/NA** 

Prep Type: Total/NA

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570-175493/4 Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 175493

RPD Spike LCSD LCSD %Rec. Result Qualifier Added %Rec Limits RPD Limit Analyte Unit TPH as Gasoline (C4-C13) 2.12 1.759 mg/Kg 83 77 - 128 0 16

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-174063/1-A Client Sample ID: Method Blank **Matrix: Solid** 

Prep Type: Silica Gel Cleanup **Analysis Batch: 175226 Prep Batch: 174063** MB MB

Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range ND 5.0 mg/Kg 08/24/21 18:14 08/29/21 11:59 TPH as Motor Oil Range ND 5.0 08/24/21 18:14 08/29/21 11:59 mg/Kg

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 99 50 - 150 08/24/21 18:14 08/29/21 11:59

n-Octacosane (Surr)

Lab Sample ID: LCS 570-174063/2-A

**Matrix: Solid** 

**Analysis Batch: 175226** 

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup Prep Batch: 174063 LCS LCS %Rec.

Spike Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 453.8 mg/Kg 113 76 - 126

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 101 50 - 150

Lab Sample ID: LCS 570-174063/6-A **Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup

**Matrix: Solid** 

**Analysis Batch: 175226** 

Spike LCS LCS

%Rec. Added Result Qualifier Unit Limits %Rec TPH as Motor Oil (C17-C44) 400 418.0 104 71 - 139 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150 96

Lab Sample ID: LCSD 570-174063/3-A

**Matrix: Solid Prep Type: Silica Gel Cleanup Analysis Batch: 175226 Prep Batch: 174063** LCSD LCSD Spike %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit TPH as Diesel (C10-C28) 400 442.8 76 - 126 mg/Kg 111

LCSD LCSD

%Recovery Qualifier Limits Surrogate n-Octacosane (Surr) 50 - 150 93

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Client Sample ID: Lab Control Sample Dup

**Prep Batch: 174063** 

Prep Type: Total/NA

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 175226	-174063/7-A				C	Client Sa	•		Control ( be: Silica ( Prep Ba	Gel Cle	anup
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)			400	401.7		mg/Kg		100	71 - 139	4	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	88		50 - 150								

	Lab Sample ID: 570-67613 Matrix: Solid Analysis Batch: 175226	-1 MS						P		t Sample ID: S- be: Silica Gel Cl Prep Batch: 1	eanup
	rinaryolo Batom 170220	Sample	Sample	Spike	MS	MS				%Rec.	14000
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	TPH as Diesel (C10-C28)	16		461	521.5		mg/Kg	☆	110	37 - 175	
		MS	MS								
	Surrogate	%Recovery	Qualifier	Limits							
	n-Octacosane (Surr)	95		50 - 150							
ì											

Matrix: Solid	latrix: Solid						Clie Prep Ty				
Analysis Batch: 175226									Prep Ba	tch: 174063	
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
TPH as Motor Oil (C17-C44)	ND		465	479.1		mg/Kg	₽	100	71 - 174		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	92		50 - 150								

Lab Sample ID: 570-67613 Matrix: Solid Analysis Batch: 175226	B-1 MSD						P		t Sample be: Silica Prep Ba	Gel Cle	anup
•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	16		464	555.1		mg/Kg	— <u>—</u>	116	37 - 175	6	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	101		50 - 150								

Lab Sample ID: 570-6761	Lab Sample ID: 570-67613-1 MSD									Client Sample ID: S-2.5-N1						
Matrix: Solid							P	rep Ty	oe: Silica	Gel Cle	anup					
Analysis Batch: 175226									Prep Ba	atch: 17	74063					
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD					
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit					
TPH as Motor Oil (C17-C44)	ND		459	483.2		mg/Kg	<del>-</del>	102	71 - 174	1	20					
	MSD	MSD														
Surrogate	%Recovery	Qualifier	Limits													
n-Octacosane (Surr)	98		50 - 150													

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Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-174079/1-A

Lab Sample ID: LCS 570-174079/2-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 175228** 

**Analysis Batch: 175228** 

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup

Prep Batch: 174079

Result Qualifier RL Unit Analyzed Dil Fac Analyte Prepared TPH as Diesel Range ND 5.0 mg/Kg 08/24/21 18:28 08/29/21 12:54 TPH as Motor Oil Range ND 5.0 mg/Kg 08/24/21 18:28 08/29/21 12:54

MB MB

MB MB

Qualifier Surrogate %Recovery I imite Prepared Analyzed Dil Fac n-Octacosane (Surr) 124 50 - 150 08/24/21 18:28 08/29/21 12:54

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 174079

Spike LCS LCS %Rec. Added Limits **Analyte** Result Qualifier %Rec Unit 76 - 126 TPH as Diesel (C10-C28) 400 454.4 mg/Kg 114

LCS LCS

%Recovery Surrogate Qualifier Limits 50 - 150 n-Octacosane (Surr) 129

Lab Sample ID: LCS 570-174079/6-A Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

**Matrix: Solid** 

**Analysis Batch: 175228** Prep Batch: 174079 Spike LCS LCS %Rec.

Added Result Qualifier Limits Analyte Unit %Rec TPH as Motor Oil (C17-C44) 400 439.9 mg/Kg 110 71 - 139

LCS LCS

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 122 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-174079/3-A

**Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 175228** Prep Batch: 174079

LCSD LCSD RPD Spike %Rec. Added Limits Result Qualifier Unit %Rec **RPD** Limit

400 441.2 110 76 - 126 TPH as Diesel (C10-C28) mg/Kg

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 119 50 - 150

Lab Sample ID: LCSD 570-174079/7-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Silica Gel Cleanup** 

**Prep Batch: 174079 Analysis Batch: 175228** LCSD LCSD %Rec

RPD Spike %Rec Analyte Added Result Qualifier Unit Limits RPD Limit TPH as Motor Oil (C17-C44) 400 406.7 102 71 - 139

mg/Kg

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 105 50 - 150

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-67613 Matrix: Solid Analysis Batch: 175228	3-21 MS						P	le ID: S-5-M4 Gel Cleanup atch: 174079		
-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	8000	F2	464	5916	4	mg/Kg	— <u>—</u>	-446	37 - 175	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	117		50 - 150							

Lab Sample ID: 570-6761	3-21 MS							Clie	ent Sample	e ID: S-5-M4
Matrix: Solid							P	rep Typ	oe: Silica (	Gel Cleanup
Analysis Batch: 175228									Prep Ba	tch: 174079
-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	3800		471	3540	4	mg/Kg	<del>*</del>	-51	71 - 174	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	125		<del>50 - 150</del>							

Lab Sample ID: 570-6761 Matrix: Solid Analysis Batch: 175228	3-21 MSD						P		ent Sampl be: Silica Prep Ba	Gel Cle	anup
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	8000	F2	469	7539	4 F2	mg/Kg	<del>*</del>	-95	37 - 175	24	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	129		50 - 150								

Lab Sample ID: 5/0-6/613	3-21 MSD							CIIE	ent Sampi	е ID: S	-5-IVI4
Matrix: Solid							P	rep Typ	e: Silica	Gel Cle	anup
Analysis Batch: 175228									Prep Ba	atch: 17	74079
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	3800		473	3431	4	mg/Kg	<del>-</del>	-74	71 - 174	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	119		50 - 150								

9/1/2021

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

## **GC VOA**

## **Prep Batch: 172893**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-1	S-2.5-N1	Total/NA	Solid	5035	
570-67613-3	S-10-N1	Total/NA	Solid	5035	
570-67613-4	S-12.5-N1	Total/NA	Solid	5035	
570-67613-5	S-2.5-M2	Total/NA	Solid	5035	
570-67613-7	S-7.5-M2	Total/NA	Solid	5035	
570-67613-9	S-12.5-M2	Total/NA	Solid	5035	
570-67613-10	S-2.5-L1	Total/NA	Solid	5035	
570-67613-12	S-7.5-L1	Total/NA	Solid	5035	
570-67613-13	S-10-L1	Total/NA	Solid	5035	
570-67613-14	S-12.5-L1	Total/NA	Solid	5035	
570-67613-17	S-7.5-K2	Total/NA	Solid	5035	
570-67613-18	S-10-K2	Total/NA	Solid	5035	
570-67613-20	S-2.5-M4	Total/NA	Solid	5035	
570-67613-22	S-7.5-M4	Total/NA	Solid	5035	
570-67613-24	S-12.5-M4	Total/NA	Solid	5035	
570-67613-25	S-2.5-L3	Total/NA	Solid	5035	
570-67613-26	S-5-L3	Total/NA	Solid	5035	
570-67613-27	S-7.5-L3	Total/NA	Solid	5035	
570-67613-29	S-12.5-L3	Total/NA	Solid	5035	

## **Prep Batch: 172894**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-2	S-5-N1	Total/NA	Solid	5035	
570-67613-6	S-5-M2	Total/NA	Solid	5035	
570-67613-8	S-10-M2	Total/NA	Solid	5035	
570-67613-11	S-5-L1	Total/NA	Solid	5035	
570-67613-15	S-2.5-K2	Total/NA	Solid	5035	
570-67613-16	S-5-K2	Total/NA	Solid	5035	
570-67613-19	S-12.5-K2	Total/NA	Solid	5035	
570-67613-21	S-5-M4	Total/NA	Solid	5035	
570-67613-23	S-10-M4	Total/NA	Solid	5035	
570-67613-28	S-10-L3	Total/NA	Solid	5035	

#### Analysis Batch: 175094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-2	S-5-N1	Total/NA	Solid	NWTPH-Gx	172894
570-67613-3	S-10-N1	Total/NA	Solid	NWTPH-Gx	172893
570-67613-4	S-12.5-N1	Total/NA	Solid	NWTPH-Gx	172893
570-67613-5	S-2.5-M2	Total/NA	Solid	NWTPH-Gx	172893
570-67613-7	S-7.5-M2	Total/NA	Solid	NWTPH-Gx	172893
570-67613-10	S-2.5-L1	Total/NA	Solid	NWTPH-Gx	172893
570-67613-11	S-5-L1	Total/NA	Solid	NWTPH-Gx	172894
570-67613-13	S-10-L1	Total/NA	Solid	NWTPH-Gx	172893
570-67613-14	S-12.5-L1	Total/NA	Solid	NWTPH-Gx	172893
570-67613-15	S-2.5-K2	Total/NA	Solid	NWTPH-Gx	172894
570-67613-16	S-5-K2	Total/NA	Solid	NWTPH-Gx	172894
570-67613-17	S-7.5-K2	Total/NA	Solid	NWTPH-Gx	172893
570-67613-19	S-12.5-K2	Total/NA	Solid	NWTPH-Gx	172894
570-67613-21	S-5-M4	Total/NA	Solid	NWTPH-Gx	172894
570-67613-28	S-10-L3	Total/NA	Solid	NWTPH-Gx	172894
MB 570-175094/5	Method Blank	Total/NA	Solid	NWTPH-Gx	

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

## **GC VOA (Continued)**

## **Analysis Batch: 175094 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-175094/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175094/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175094/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

## **Analysis Batch: 175182**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-18	S-10-K2	Total/NA	Solid	NWTPH-Gx	172893
570-67613-20	S-2.5-M4	Total/NA	Solid	NWTPH-Gx	172893
570-67613-22	S-7.5-M4	Total/NA	Solid	NWTPH-Gx	172893
570-67613-24	S-12.5-M4	Total/NA	Solid	NWTPH-Gx	172893
570-67613-25	S-2.5-L3	Total/NA	Solid	NWTPH-Gx	172893
570-67613-26	S-5-L3	Total/NA	Solid	NWTPH-Gx	172893
570-67613-27	S-7.5-L3	Total/NA	Solid	NWTPH-Gx	172893
570-67613-29	S-12.5-L3	Total/NA	Solid	NWTPH-Gx	172893
MB 570-175182/34	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175182/32	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175182/33	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

## **Analysis Batch: 175493**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-1	S-2.5-N1	Total/NA	Solid	NWTPH-Gx	172893
570-67613-6	S-5-M2	Total/NA	Solid	NWTPH-Gx	172894
570-67613-8	S-10-M2	Total/NA	Solid	NWTPH-Gx	172894
570-67613-9	S-12.5-M2	Total/NA	Solid	NWTPH-Gx	172893
570-67613-12	S-7.5-L1	Total/NA	Solid	NWTPH-Gx	172893
570-67613-23	S-10-M4	Total/NA	Solid	NWTPH-Gx	172894
MB 570-175493/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-175493/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175493/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175493/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

## **GC Semi VOA**

## **Prep Batch: 174063**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-1	S-2.5-N1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-2	S-5-N1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-3	S-10-N1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-4	S-12.5-N1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-5	S-2.5-M2	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-6	S-5-M2	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-7	S-7.5-M2	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-8	S-10-M2	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-9	S-12.5-M2	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-10	S-2.5-L1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-11	S-5-L1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-12	S-7.5-L1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-13	S-10-L1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-14	S-12.5-L1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-15 - DL	S-2.5-K2	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-16 - DL	S-5-K2	Silica Gel Cleanup	Solid	3550C SGC	

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

## GC Semi VOA (Continued)

## Prep Batch: 174063 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-17	S-7.5-K2	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-18	S-10-K2	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-19	S-12.5-K2	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-20 - DL	S-2.5-M4	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-174063/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174063/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174063/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174063/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174063/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-1 MS	S-2.5-N1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-1 MS	S-2.5-N1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-1 MSD	S-2.5-N1	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-1 MSD	S-2.5-N1	Silica Gel Cleanup	Solid	3550C SGC	

#### **Prep Batch: 174079**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-21	S-5-M4	Silica Gel Cleanup	Solid	3550C SGC	·
570-67613-22	S-7.5-M4	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-23	S-10-M4	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-24	S-12.5-M4	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-25	S-2.5-L3	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-26 - DL	S-5-L3	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-27	S-7.5-L3	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-28	S-10-L3	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-29	S-12.5-L3	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-174079/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174079/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174079/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174079/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174079/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-21 MS	S-5-M4	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-21 MS	S-5-M4	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-21 MSD	S-5-M4	Silica Gel Cleanup	Solid	3550C SGC	
570-67613-21 MSD	S-5-M4	Silica Gel Cleanup	Solid	3550C SGC	

#### Analysis Batch: 175226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-1	S-2.5-N1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-2	S-5-N1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-3	S-10-N1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-4	S-12.5-N1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-5	S-2.5-M2	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-6	S-5-M2	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-7	S-7.5-M2	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-8	S-10-M2	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-9	S-12.5-M2	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-10	S-2.5-L1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-11	S-5-L1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-12	S-7.5-L1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-13	S-10-L1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-14	S-12.5-L1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

## GC Semi VOA (Continued)

## **Analysis Batch: 175226 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-17	S-7.5-K2	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-18	S-10-K2	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-19	S-12.5-K2	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
MB 570-174063/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
LCS 570-174063/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
LCS 570-174063/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
LCSD 570-174063/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
LCSD 570-174063/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-1 MS	S-2.5-N1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-1 MS	S-2.5-N1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-1 MSD	S-2.5-N1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-1 MSD	S-2.5-N1	Silica Gel Cleanup	Solid	NWTPH-Dx	174063

#### **Analysis Batch: 175228**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-21	S-5-M4	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-22	S-7.5-M4	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-23	S-10-M4	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-24	S-12.5-M4	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-25	S-2.5-L3	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-27	S-7.5-L3	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-28	S-10-L3	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-29	S-12.5-L3	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
MB 570-174079/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
LCS 570-174079/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
LCS 570-174079/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
LCSD 570-174079/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
LCSD 570-174079/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-21 MS	S-5-M4	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-21 MS	S-5-M4	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-21 MSD	S-5-M4	Silica Gel Cleanup	Solid	NWTPH-Dx	174079
570-67613-21 MSD	S-5-M4	Silica Gel Cleanup	Solid	NWTPH-Dx	174079

## **Analysis Batch: 175333**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-15 - DL	S-2.5-K2	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-16 - DL	S-5-K2	Silica Gel Cleanup	Solid	NWTPH-Dx	174063
570-67613-20 - DL	S-2.5-M4	Silica Gel Cleanup	Solid	NWTPH-Dx	174063

#### **Analysis Batch: 175405**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67613-26 - DI	S-5-L3	Silica Gel Cleanup	Solid	NWTPH-Dx	174079

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## **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-2.5-N1

Date Collected: 08/17/21 10:35 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67613-1

Lab Sample ID: 570-67613-3

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.229 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC22		1	5 g	5 mL	175493	08/31/21 12:48	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.23 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 14:56	A1W	ECL 1
	Instrumen	t ID: GC50								

**Client Sample ID: S-5-N1** Lab Sample ID: 570-67613-2 Date Collected: 08/17/21 10:40 **Matrix: Solid** 

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.036 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175094	08/28/21 13:59	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 15:16	A1W	ECL 1
	Instrumer	t ID: GC50								

**Client Sample ID: S-10-N1** Date Collected: 08/17/21 10:45

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.8 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175094	08/28/21 13:06	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 15:36	A1W	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-12.5-N1 Lab Sample ID: 570-67613-4 Date Collected: 08/17/21 10:50 **Matrix: Solid** 

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.647 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175094	08/28/21 13:29	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.20 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 15:55	A1W	ECL 1
	Instrumen	t ID: GC50								

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**Matrix: Solid** 

## **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-2.5-M2

Date Collected: 08/17/21 10:55 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67613-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.099 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	175094	08/28/21 21:45	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 16:15	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-M2 Lab Sample ID: 570-67613-6 **Matrix: Solid** 

Date Collected: 08/17/21 11:00 Date Received: 08/18/21 10:15

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 4.554 g 5 mL 172894 08/19/21 18:16 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** ECL 2 100 5 mL 5 mL 175493 08/31/21 17:39 P1R Instrument ID: GC22 Silica Gel Cleanup 3550C SGC 10.15 g 10 mL 174063 08/24/21 18:14 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 2 175226 08/29/21 16:35 A1W ECL 1 Instrument ID: GC50

Client Sample ID: S-7.5-M2 Date Collected: 08/17/21 11:05

Date Received: 08/18/21 10:15

Lab Sample ID: 570-67613-7

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.543 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175094	08/28/21 18:13	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 16:55	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-10-M2 Lab Sample ID: 570-67613-8 **Matrix: Solid** 

Date Collected: 08/17/21 11:10 Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.18 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	175493	08/31/21 15:20	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 17:14	A1W	ECL 1
	Instrumen	t ID: GC50								

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Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-12.5-M2

Client: Cardno, Inc

Date Collected: 08/17/21 11:15 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67613-9

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.416 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC22		1	5 g	5 mL	175493	08/31/21 13:39	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 17:34	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-L1 Lab Sample ID: 570-67613-10

Date Collected: 08/17/21 11:30 Date Received: 08/18/21 10:15

Batch Dil Initial Final Batch Batch Prepared **Prep Type** Method Type Run **Factor** Amount **Amount** Number or Analyzed Analyst Lab Total/NA 5035 172893 Prep 6.905 g 5 g 08/19/21 18:16 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 175094 08/28/21 19:23 P1R ECL 2 5 g 5 mL Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.21 g 10 mL 174063 08/24/21 18:14 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175226 08/29/21 17:54 A1W ECL 1 1 Instrument ID: GC50

Client Sample ID: S-5-L1 Lab Sample ID: 570-67613-11 Date Collected: 08/17/21 11:35 **Matrix: Solid** 

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.229 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175094	08/28/21 19:47	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 18:54	A1W	ECL 1
	Instrumer	t ID: GC50								

Lab Sample ID: 570-67613-12 Client Sample ID: S-7.5-L1 **Matrix: Solid** 

Date Collected: 08/17/21 11:40 Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.26 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175493	08/31/21 14:04	P1R	ECL 2
	Instrumer	it ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 19:14	A1W	ECL 1
	Instrumer	t ID: GC50								

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## **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-10-L1

Date Collected: 08/17/21 11:45 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67613-13

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.981 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC57		1	5 g	5 mL	175094	08/28/21 20:34	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.23 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 19:35	A1W	ECL 1

Lab Sample ID: 570-67613-14 Client Sample ID: S-12.5-L1 Date Collected: 08/17/21 11:50 **Matrix: Solid** 

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.428 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175094	08/28/21 20:58	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 19:55	A1W	ECL 1
	Instrumer	nt ID: GC50								

Lab Sample ID: 570-67613-15 **Client Sample ID: S-2.5-K2** Date Collected: 08/17/21 12:20 **Matrix: Solid** 

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.899 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175094	08/28/21 14:48	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.03 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175333	08/30/21 16:04	UJ3K	ECL 1
	Instrumer	t ID: GC50								

**Client Sample ID: S-5-K2** Lab Sample ID: 570-67613-16

Date Collected: 08/17/21 12:25 Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.902 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175094	08/28/21 15:11	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.04 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175333	08/30/21 16:24	UJ3K	ECL 1
	Instrumer	t ID: GC50								

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**Matrix: Solid** 

Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-7.5-K2

Client: Cardno, Inc

Date Collected: 08/17/21 12:30 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67613-17

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.03 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	175094	08/28/21 21:22	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 20:56	A1W	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-10-K2

Date Collected: 08/17/21 12:35

Date Received: 08/18/21 10:15

Lab	<b>Sample</b>	ID:	<b>57</b>	0-67613-18
				Matrice Callel

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.308 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC57		1	5 g	5 mL	175182	08/29/21 00:53	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 21:16	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-12.5-K2

Date Collected: 08/17/21 12:40

Date Received: 08/18/21 10:15

Lab	Sample	ID:	570-67613-19	
			Matrix: Solid	

Lab Sample ID: 570-67613-20

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.757 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175094	08/28/21 14:22	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 21:36	A1W	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-2.5-M4

Date Collected: 08/17/21 13:00

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.047 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175182	08/29/21 01:17	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.25 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			175333	08/30/21 16:44	UJ3K	ECL 1
	Instrumen	t ID: GC50								

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## **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-5-M4

Date Collected: 08/17/21 13:05

Lab Sample ID: 570-67613-21

Lab Sample ID: 570-67613-23

**Matrix: Solid** 

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.987 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175094	08/28/21 15:35	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174079	08/24/21 18:29	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175228	08/29/21 22:41	N1A	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-7.5-M4 Lab Sample ID: 570-67613-22 Date Collected: 08/17/21 13:10 **Matrix: Solid** 

Date Received: 08/18/21 10:15

Batch Dil Initial Final Batch Batch Prepared **Prep Type** Method Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 172893 Prep 5.653 g 5 g 08/19/21 18:16 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 08/29/21 01:40 P1R ECL 2 5 g 5 mL 175182 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 10.13 g 10 mL 174079 08/24/21 18:29 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175228 08/29/21 23:03 N1A ECL 1 10 Instrument ID: GC48

Client Sample ID: S-10-M4 Date Collected: 08/17/21 13:15

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.239 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175493	08/31/21 15:46	P1R	ECL 2
	Instrumer	nt ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.21 g	10 mL	174079	08/24/21 18:29	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/29/21 23:24	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-12.5-M4 Lab Sample ID: 570-67613-24 **Matrix: Solid** 

Date Collected: 08/17/21 13:20 Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.377 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175182	08/29/21 02:50	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	174079	08/24/21 18:29	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/29/21 23:46	N1A	ECL 1
	Instrumen	t ID: GC48								

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**Matrix: Solid** 

Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-2.5-L3

Client: Cardno, Inc

Date Collected: 08/17/21 13:25 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67613-25

Lab Sample ID: 570-67613-27

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.348 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	175182	08/29/21 03:14	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.00 g	10 mL	174079	08/24/21 18:31	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175228	08/30/21 00:09	N1A	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-5-L3 Lab Sample ID: 570-67613-26

Date Collected: 08/17/21 13:30 Date Received: 08/18/21 10:15

Dil Initial Final Batch Batch Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 3.552 g 5 g 172893 08/19/21 18:16 EDZ4 ECL 2 Total/NA **NWTPH-Gx** ECL 2 Analysis 5 g 5 mL 175182 08/29/21 03:37 P1R Instrument ID: GC57 Silica Gel Cleanup 3550C SGC DL 10.07 g 10 mL 174079 08/24/21 18:31 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx DL 175405 08/30/21 16:47 N1A ECL 1 10 Instrument ID: GC48

Client Sample ID: S-7.5-L3

Date Collected: 08/17/21 13:35

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.101 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	175182	08/29/21 04:01	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174079	08/24/21 18:31	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 00:52	N1A	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-10-L3 Lab Sample ID: 570-67613-28

Date Collected: 08/17/21 13:40 Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.851 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175094	08/28/21 15:58	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	174079	08/24/21 18:31	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 01:14	N1A	ECL 1
	Instrumer	t ID: GC48								

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## **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

Client Sample ID: S-12.5-L3 Lab Sample ID: 570-67613-29

Date Collected: 08/17/21 13:45

Date Received: 08/18/21 10:15

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.694 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175182	08/29/21 04:24	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	174079	08/24/21 18:31	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 01:36	N1A	ECL 1
	Instrumer	t ID: GC48								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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## **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-67613-1

Project/Site: ExxonMobi ADC / 031447040

## **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-11-21

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## **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobi ADC / 031447040

Method **Method Description** Protocol Laboratory ECL 2 NWTPH-Gx Northwest - Volatile Petroleum Products (GC) NWTPH NWTPH-Dx **NWTPH** Northwest - Semi-Volatile Petroleum Products (GC) ECL 1 ECL 1 3550C SGC SW846 Ultrasonic Extraction 5035 Closed System Purge and Trap SW846 ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-67613-1

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es eurofins	7440 LINCOLN WAY		<u>i</u>	Site Name Everett		Everett Bulk Plant	CHAIN OF CUSTODY RECORD	
	Calscience Garden Grove, ca 92841-1432	841-1432	8	vide MRN for ret	all or AFE for r	najor projects	DATE: 8/]7/2021	
	TEL. (714) 895-5494 FAX: (714) 894-7501	X: (714) 894-7501	Ret	Retail Project (MRN)			PAGE 1 OF 2	
			Maj	Major Project (AFE)				
xxonMobil Engr	Jennifer Sedlachek		Pro	Project Name	Ш	ExxonMobil ADC / 0314476040		
LABORATORY CLIENT- Cardno					GLOBAL ID #/ COELT LOG CODE	6 CODE:	P O 0314476040, Agreement# A2604415	
ADDRESS:	<b>474</b>				TO STATE OF THE ST		Sing Ball Gri	
309 South Cloverdale Street Unit A13	treet Unit A13				Robert Thompson	bson	+ + + + + + + + + + + + + + + + + + + +	
Seattle, WA 98108	.>*L				SAMPLER(S): Paul P	SAMPLER(S): Paul Prevou, John Considine	GOOLER REGEIPT	
206-510-5855	N/A	robert thon	(a)	robert.thompson@cardno com				
SAME DAY 24 HR	☐48 HR ☐72 HR	☐ 5 DAYS	☑ 10 DAYS			REQUE	REQUESTED ANALYSIS	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY SPECY SPECY)	COSTS MAY APPLY)  SARCHIVE SAMPLES UNTIL	m//_						
SPECIAL INSTRUCTIONS:	sector 3 Comments for a citizeness	James ve estite by com	not by	alveic method				
tequired EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group resuns by sample, not by analysis memora. Include & Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thompson@cardno.com Il units in mg/kg.	form Silica Gel Cleanup - 0.5 grams reight correction. Report to: laina.	s. Group resums by sample cole@cardno.com, robert.t	thompson(	alysis bleuou. gcardno.com	02M/8 25 HqT - 3 26 HqT - X		570-67613 Chain of Custody	
teport to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.pefinter-asin@cardno.com	bert.thompson@cardno.com, and	cameron.penner-asn@car	dno.com	NO. OF CONT	ю-н О ^Т Н			
LAS: SAMPLE ID	Field Point Name	DATE TIME	RIX 4				CONTAINER TYPE	
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2 S-5- M	J.V	├	$\vdash$	4	××	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
\$7.5.44	*	1	$\vdash$	4	*	2-Sodium-Bicultate VOAs, 1 Methanol VOA, one fee un preserved glass ja	one-terun processed glass jar	
3 S-10-11	γŅ		+	4	-+	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
4 S-12.5-M	M		$\dashv$		+	2 Sodium bisuntate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar	one 4oz un-preserveg glass jar	
S-2.5-70.	AA2	$\neg$	+		+	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar	one 4oz un-preserved glass Jar	
6 55-62	W1		S 0		< ×	2 Sodium Bisuitate VOAs, 1 Methanol VOA, one 402 un-preserved glass Jal. 2 Sodium Bisuitate VOAs, 1 Methanol VOA, one 402 un-preserved class iar.	one 40z un-preserved glass jar	
S-10-182	7247	8/17/2021 1183	+	- 4	+-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
	Anz	-	S		×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
10 8-25-41		6/11/2021/1130		4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
	17	-	Н		×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar	one 4oz un-preserved glass Jar	
(2 8-75-61	17		1	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
12/S-10- Ll	<i>[7]</i>		S		-+	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
14   S-12.5- 61	17	-	-	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
⁶ 5   S-2 5-   \(\ceil \)	<b>K</b> 1	_	$\dashv$		$\dashv$	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar	one 4oz un-preserved glass jar	
16 S-5- K2	ಭ				-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
17 S-75-K2	೮	8/17/2021 1230			-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar	one 4oz un-preserved glass jar	
14 S-10- K2	Ø		S S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
_	24	6/17/2021   1243	_	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
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Paul Prevou	<u> </u>		Fed	(Samuel) (Samuel)			8/ <b>17</b> /2021 4 15 00 PM	
Relinquished by: (Signature)			Rec	Received by (Signature)		B	Date, & Time:	
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	IEL. (714) 635-5434 FAX. (714) 634-750	.X. (7.14) 654-750 I	Major	Project (AFE)				5	
ExxonMobil Engr	Jennifer Sedlachek		Projec	Project Name	25777777225 <b>458</b> 88888888888888	Exxon	ExxonMobil ADC / 0314476040		
LABORATORY CLIENT  Cardno					GLOBAL ID #/ COELT LOG CODE	T LOG CODE		P O 0314476040, Agreement# A2604415	-
ADDRESS: 309 South Cloverdale Street Unit A13	Street Unit A13				PROJECT CONTACT	Ŀ		windstand ( which is a second	· · · · · · ·
Seattle, WA 98108					SAMPLER(S): Paul Prevo	ompsor ul Prevo	Robert Thompson SAMPLER(S): Paul Prevou, John Considine		
TE 206-510-5855	N/A	robert.thompson@cardno.com	son@car	lno.com				Temp> ~ °C	
TURNAROUND TIME SAME DAY 24 HR	☐48 HR ☐72 HR	S DAYS	J 10 DAYS				REQUEST	REQUESTED ANALYSIS	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWQCB REPORTING	L COSTS MAY APPLY)  SARCHIVE SAMPLES UNTIL	NTIL//	-						
SPECIAL INSTRUCTIONS. Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method.	erform Silica Gei Cleanup - 0.5 gram	ns. Group results by sample,	not by analysi	s method.	ss Gasi				
Include % Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in mg/kg.	weight correction. Report to: laina	Lcole@cardno.com, robert.th	ompson@carc	no.com					
t to: laina.coli	robert thompson@cardno.com, and	SAMPLING	MAT-	NO. OF CONT	:อ-нч <u>о_</u> нч				
USE	Field Point Name	DATE TIME	RIX		TWN			CONTAINER TYPE	
26 S-25-M	μW	8/17/2021 1300	S	4	$\vdash$		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar	4oz un-preserved glass jar	
21 S-5- MH	'nW		S	4	-		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	
22 S-75-MH	MAY	8/7/2021 17/2	S	4	-	-	2 Sodium Bisultate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar 2 Sodium Bisultate VOAs, 1 Mathanol VOA one 4oz un-presented place for	402 un-preserved glass jar	
23 S-10- MJ	NA.	8/ 7/2021 1375 1375	ه ر	4	< ×	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	
26 5-125-MA	W.H.	_	9 0	1 4	+-		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	_
_	2	+	S	4	$\vdash$		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	
27 8-75-13			1 1	4	×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	-
	Ŋ	8117 12021 1340	l 1	4	-	1	2 Sodium Bisulfate VOAs 1 Methanol VOA, one 4oz un-preserved glass Jar	4oz un-preserved glass jar	
24 S-12 5-£3	13	847/2021 1345	- 1	4	×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	
		-8/ /2021	Ŋ	4	* :		2 Sodium Biculiate VOAs, 1 Meditarrol VOA, one 4oz un preserved glasse for	to preserved glace-yer	-
<del>S-5-</del>		8/ /2021	Sp (	4	* ;		2 Sodium Bisulfate VOAs, 1 Metitarior VOA, ene 462 un presented glass lat.	462-un-precedual glass lar	_
878		8 - 12021	d) (	#	<b>∮</b> ⟩ <b>↓</b> ,		Society bisulate bower internation VOA, one	HOL UIT-PITOSOFFEE BIAND JOL	_
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0-12 d-		9/ 72021	1 4	+	*   *   *	<u> </u>	2 Sodium Bisultate VOAs, 1 Methand VOA, one 402 on-preserved glass jar	40Z un-preserved glass jar	_
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578			do	#	*		2-Sedium-Bieuffate VOAS, 1 Methanol VOA, one 402 un-preserved glass par	doz un presenved glass jar	
0+9		12021	ф	4	**		2 Sodium Bisulfate VOAs. 1 Methanol VOA, one 4oz un preserved glass jar.	4 <del>oz un prese</del> rved glass jar	
\$ 12.5			þ	4	X		2. Sodium, Bisulfate VOAs, 1. Methanol VOA, one for un preserved glass jan	<del>dor un prasenvad glase jar -</del>	
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Client: Cardno, Inc

Job Number: 570-67613-1

Login Number: 67613 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Creator. Ramos, Mamber		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# **Environment Testing America**

## **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-67715-1

Client Project/Site: ExxonMobil ADC / 0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Soma

Authorized for release by: 9/1/2021 7:07:06 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040 Laboratory Job ID: 570-67715-1

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## **Sample Summary**

Job ID: 570-67715-1 Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

570-67715-27

S-16-N3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67715-1	S-2.5-N7	Solid	08/17/21 06:45	08/18/21 10:15
570-67715-2	S-5-N7	Solid	08/17/21 06:50	08/18/21 10:15
570-67715-3	S-7.5-N7	Solid	08/17/21 06:55	08/18/21 10:15
570-67715-4	S-10-N7	Solid	08/17/21 07:00	08/18/21 10:15
570-67715-5	S-12.5-N7	Solid	08/17/21 07:05	08/18/21 10:15
570-67715-6	S-2.5-O6	Solid	08/17/21 07:35	08/18/21 10:15
570-67715-7	S-5-O6	Solid	08/17/21 07:40	08/18/21 10:15
570-67715-8	S-7.5-O6	Solid	08/17/21 07:45	08/18/21 10:15
570-67715-9	S-10-O6	Solid	08/17/21 07:50	08/18/21 10:15
570-67715-10	S-12.5-O6	Solid	08/17/21 07:55	08/18/21 10:15
570-67715-11	S-2.5-N5	Solid	08/17/21 08:20	08/18/21 10:15
570-67715-12	S-5-N5	Solid	08/17/21 08:25	08/18/21 10:15
570-67715-13	S-7.5-N5	Solid	08/17/21 08:30	08/18/21 10:15
570-67715-14	S-10-N5	Solid	08/17/21 08:35	08/18/21 10:15
570-67715-15	S-12.5-N5	Solid	08/17/21 08:40	08/18/21 10:15
570-67715-16	S-10-O4	Solid	08/17/21 09:15	08/18/21 10:15
570-67715-17	S-12.5-O4	Solid	08/17/21 09:20	08/18/21 10:15
570-67715-18	S-7.5-O6 DUP	Solid	08/17/21 08:00	08/18/21 10:15
570-67715-19	S-2.5-N3	Solid	08/17/21 09:30	08/18/21 10:15
570-67715-20	S-5-N3	Solid	08/17/21 09:35	08/18/21 10:15
570-67715-21	S-7.5-N3	Solid	08/17/21 09:40	08/18/21 10:15
570-67715-22	S-2.5-O2	Solid	08/17/21 10:05	08/18/21 10:15
570-67715-23	S-5-O2	Solid	08/17/21 10:10	08/18/21 10:15
570-67715-24	S-7.5-O2	Solid	08/17/21 10:15	08/18/21 10:15
570-67715-25	S-10-O2	Solid	08/17/21 10:20	08/18/21 10:15
570-67715-26	S-12.5-O2	Solid	08/17/21 10:25	08/18/21 10:15

Solid

08/17/21 09:45 08/18/21 10:15

## **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

**Qualifier Description** 

#### Qualifiers

<b>GC VOA</b>	
Qualifier	

 $\overline{\mathsf{H}}$ Sample was prepped or analyzed beyond the specified holding time

S1-Surrogate recovery exceeds control limits, low biased.

S1+ Surrogate recovery exceeds control limits, high biased.

#### **GC Semi VOA**

4 MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

Ε Result exceeded calibration range. F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.

#### **Glossary**

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R **CFL** Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

**DER** Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

**PQL Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

**RER** Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

**RPD** Relative Percent Difference, a measure of the relative difference between two points

**TEF** Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count TNTC

**Eurofins Calscience LLC** 

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9/1/2021

#### Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67715-1

Job ID: 570-67715-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-67715-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/18/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

#### Receipt Exceptions

S-7.5-O6 (570-67715-8) container jar collection time per label is 07:50 S-10-O6 S-10-O6 (570-67715-9) container jar collection time per label is 07:45

Client was notifed and advised the laboratory to use the sample collection times listed on the COC. Please refer to the attached email.

#### **GC VOA**

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-175182. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-175737. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-175493. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: The following samples were analyzed outside of analytical holding time due to an error in sampling scheduling: S-5-N5 (570-67715-12) and S-5-N3 (570-67715-20).

Method NWTPH-Gx: Surrogate recovery for the following samples were outside control limits: S-5-N5 (570-67715-12), S-7.5-O6 DUP (570-67715-18) and S-7.5-N3 (570-67715-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-175849. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-175886. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Dilution analysis of the following sample was performed outside of holding time due to target analyte over the calibration range in the initial analysis: S-2.5-N3 (570-67715-19). Initial analysis was performed within required holding time.

Method NWTPH-Gx: Re-analysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameter in the initial analysis. S-12.5-O2 (570-67715-26).

Method NWTPH-Gx: The following sample was analyzed outside of analytical holding time due to an error in sampling scheduling: S-10-O4 (570-67715-16).

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-5-O2 (570-67715-23). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits. The initial data analysis has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

#### **Case Narrative**

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

## Job ID: 570-67715-1 (Continued)

#### **Laboratory: Eurofins Calscience LLC (Continued)**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Client: Cardno, Inc Job ID: 570-67715-1 Project/Site: ExxonMobil ADC / 0314476040

					Lab Sample ID: 5	70-67715
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	36		10	mg/Kg	50 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	6100		28	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	2300		28	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-5-N7					Lab Sample ID: 5	70-67715
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1200	<u> </u>	170	mg/Kg		Total/NA
TPH as Diesel Range	1600		6.7	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	37		6.7	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
<u>-</u>						Cleanup
Client Sample ID: S-7.5-N7					Lab Sample ID: 5	70-67715
Analyte	Posult	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	9500	Qualifier	890	mg/Kg	500 × NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	24000		170	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel
TI TI as Diesei Range - DE	24000		170	mg/Kg	10 × 14441111-0X	Cleanup
TPH as Motor Oil Range - DL	1000		170	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel
3				3, 3		Cleanup
Client Sample ID: S-10-N7					Lab Sample ID: 5	70-67715
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
		Qualifier				_ i ich iyhe
TPH as Gasoline (C4-C13)	1400		350	ma/Ka	250 × NWTPH-Gy	Total/NA
TPH as Dissal Panas	1400		350 46	mg/Kg	250 NWTPH-Gx	Total/NA
TPH as Gasoline (C4-C13) TPH as Diesel Range	1400 4400		350 46	mg/Kg mg/Kg	250 ☆ NWTPH-Gx 2 ☆ NWTPH-Dx	Silica Gel
TPH as Diesel Range	4400		46	mg/Kg	2 ☆ NWTPH-Dx	Silica Gel Cleanup
, ,						Silica Gel
TPH as Diesel Range TPH as Motor Oil Range	4400		46	mg/Kg	2 ☆ NWTPH-Dx 2 ☆ NWTPH-Dx	Silica Gel Cleanup Silica Gel Cleanup
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7	4400 1800		46 46	mg/Kg	2 * NWTPH-Dx 2 * NWTPH-Dx  Lab Sample ID: 5	Silica Gel Cleanup Silica Gel Cleanup
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte	4400 1800 Result	Qualifier	46 46 <b>RL</b>	mg/Kg mg/Kg	2 * NWTPH-Dx 2 * NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method	Silica Gel Cleanup Silica Gel Cleanup  70-67715
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte  TPH as Gasoline (C4-C13)	4400 1800 Result 4.4	Qualifier	46 46 <b>RL</b> 0.85	mg/Kg mg/Kg  mg/Kg  Unit mg/Kg	2 * NWTPH-Dx  2 * NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  NWTPH-Gx	Silica Gel Cleanup Silica Gel Cleanup  70-67715  Prep Type Total/NA
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte	4400 1800 Result	Qualifier	46 46 <b>RL</b>	mg/Kg mg/Kg	2 * NWTPH-Dx 2 * NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method	Silica Gel Cleanup Silica Gel Cleanup  70-67715  Prep Type Total/NA Silica Gel
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte  TPH as Gasoline (C4-C13)  TPH as Diesel Range	Result 4.4 320	Qualifier	46 46 <b>RL</b> 0.85 21	mg/Kg mg/Kg  Mnit mg/Kg mg/Kg	2 % NWTPH-Dx  2 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  1 % NWTPH-Gx 1 % NWTPH-Dx	Silica Gel Cleanup Silica Gel Cleanup  70-67715  Prep Type Total/NA Silica Gel Cleanup
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte  TPH as Gasoline (C4-C13)	4400 1800 Result 4.4	Qualifier	46 46 <b>RL</b> 0.85	mg/Kg mg/Kg  mg/Kg  Unit mg/Kg	2 * NWTPH-Dx  2 * NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  NWTPH-Gx	Silica Gel Cleanup Silica Gel Cleanup  70-67715  Prep Type Total/NA Silica Gel Cleanup Silica Gel
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte  TPH as Gasoline (C4-C13)  TPH as Diesel Range  TPH as Motor Oil Range	Result 4.4 320	Qualifier	46 46 <b>RL</b> 0.85 21	mg/Kg mg/Kg  Mnit mg/Kg mg/Kg	2 © NWTPH-Dx  2 © NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  1 © NWTPH-Gx  1 © NWTPH-Dx  1 © NWTPH-Dx	Silica Gel Cleanup Silica Gel Cleanup  70-67715  Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte  TPH as Gasoline (C4-C13)  TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-2.5-O6	Result 4.4 320 190		46 46 RL 0.85 21 21	mg/Kg mg/Kg  Unit mg/Kg mg/Kg mg/Kg	2 % NWTPH-Dx  2 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  1 % NWTPH-Gx 1 % NWTPH-Dx  1 % NWTPH-Dx  Lab Sample ID: 5	Silica Gel Cleanup Silica Gel Cleanup  70-67715  Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup Silica Gel Cleanup
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte  TPH as Gasoline (C4-C13)  TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-2.5-O6  Analyte	Result  4.4 320 190  Result	Qualifier	46 46 RL 0.85 21 21	mg/Kg mg/Kg  Unit mg/Kg mg/Kg mg/Kg	2 % NWTPH-Dx 2 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method 1 % NWTPH-Gx 1 % NWTPH-Dx  1 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method	Silica Gel Cleanup Silica Gel Cleanup  70-67715  Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup To-67715  Prep Type
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte  TPH as Gasoline (C4-C13)  TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-2.5-O6  Analyte  TPH as Gasoline (C4-C13)	Result 4.4 320 190 Result 170		46 46 RL 0.85 21 21 21	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	2 % NWTPH-Dx  2 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  1 % NWTPH-Gx  1 % NWTPH-Dx  1 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  250 % Method  NWTPH-Gx	Silica Gel Cleanup Silica Gel Cleanup  70-67715  Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup T0-67715  Prep Type Total/NA
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte  TPH as Gasoline (C4-C13)  TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-2.5-O6  Analyte	Result  4.4 320 190  Result		46 46 RL 0.85 21 21	mg/Kg mg/Kg  Unit mg/Kg mg/Kg mg/Kg	2 % NWTPH-Dx 2 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method 1 % NWTPH-Gx 1 % NWTPH-Dx  1 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method	Silica Gel Cleanup Silica Gel Cleanup  70-67715  Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup T0-67715  Prep Type Total/NA Silica Gel Cleanup
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte  TPH as Gasoline (C4-C13)  TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-2.5-O6  Analyte  TPH as Gasoline (C4-C13)  TPH as Diesel Range	Result 4.4 320 190  Result 170 1000		46 46  RL 0.85 21 21 21  RL 58 52	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	2 % NWTPH-Dx  2 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  1 % NWTPH-Gx  1 % NWTPH-Dx  1 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  250 % NWTPH-Gx  10 % NWTPH-Dx	Silica Gel Cleanup Silica Gel Cleanup 70-67715  Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup Total/NA Silica Gel Cleanup Total/NA Silica Gel Cleanup Total/NA Silica Gel Cleanup
TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-12.5-N7  Analyte  TPH as Gasoline (C4-C13)  TPH as Diesel Range  TPH as Motor Oil Range  Client Sample ID: S-2.5-O6  Analyte  TPH as Gasoline (C4-C13)	Result 4.4 320 190 Result 170		46 46 RL 0.85 21 21 21	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	2 % NWTPH-Dx  2 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  1 % NWTPH-Gx  1 % NWTPH-Dx  1 % NWTPH-Dx  Lab Sample ID: 5  Dil Fac D Method  250 % Method  NWTPH-Gx	Silica Gel Cleanup Silica Gel Cleanup  70-67715  Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup To-67715  Prep Type Total/NA Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Result Qualifier

2800

2000

Analyte

TPH as Gasoline (C4-C13)

TPH as Diesel Range

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Dil Fac D Method

2500 ☼ NWTPH-Gx

10 ☼ NWTPH-Dx

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RL

490

59

Unit

mg/Kg mg/Kg

**Prep Type** 

Total/NA

Silica Gel Cleanup

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-06	6 (Continue	d)			Lab Sample ID: 5	70-67715-7
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	320		59	mg/Kg	10 🌣 NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-0	<b>D6</b>				Lab Sample ID: 5	70-67715-8
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	200		24	mg/Kg	100	Total/NA
TPH as Diesel Range	220		5.7	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-C	)6				Lab Sample ID: 5	70-67715-9
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	2900		590	mg/Kg	2500 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	600		6.1	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
Ti Ti da Diesei Kange	000		0.1	mg/Ng	1 × 14W1111-DX	Cleanup
TPH as Motor Oil Range	27		6.1	mg/Kg	1 🌣 NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5	-06				Lab Sample ID: 57	0-67715-10
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	210		22	mg/Kg	100 × NWTPH-Gx	Total/NA
TPH as Diesel Range	260		13	mg/Kg	2 ☆ NWTPH-Dx	Silica Gel
				99		Cleanup
TPH as Motor Oil Range	210		13	mg/Kg	2 🌣 NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-I	N5				Lab Sample ID: 57	0-67715-11
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	2000		230	mg/Kg	500 × NWTPH-Gx	Total/NA
TPH as Diesel Range	110000		380	mg/Kg	50 ☆ NWTPH-Dx	Silica Gel
Ç				0 0		Cleanup
TPH as Motor Oil Range	6300		380	mg/Kg	50 ☼ NWTPH-Dx	Silica Gel
_						Cleanup
Client Sample ID: S-5-N5	5				Lab Sample ID: 57	0-67715-12
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1100	H	35	mg/Kg	100 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	820		33	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	51		33	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
_						Cleanup
Client Sample ID: S-7.5-I	N5				Lab Sample ID: 57	0-67715-13
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.87		0.21	mg/Kg	1 ☼ NWTPH-Gx	Total/NA
Client Sample ID: S-10-N	15				Lab Sample ID: 57	0-67715-14
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	9.4		0.24	mg/Kg	1 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	32		6.0	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
	32			J <del>J</del>	<b>_</b>	Cleanup

This Detection Summary does not include radiochemical test results.

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Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

No Detections.

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	66	H	4.7	mg/Kg	20	☼	NWTPH-Gx	Total/NA
TPH as Diesel Range	230		6.1	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	75		6.1	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-O4

Analyte	Result Qualifier	RL	Unit	Dil Fac [	Method	Prep Type
TPH as Gasoline (C4-C13)	1.2	0.74	mg/Kg	1	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	62	20	mg/Kg	1 ₃	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-O6 DUP

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	55		3.9	mg/Kg	20	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	1100		5.8	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	26		5.8	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-N3

Analyte         Result         Qualifier           TPH as Gasoline (C4-C13)         1700         H           TPH as Diesel Range         930           TPH as Motor Oil Range         9.5	190 5.5 5.5	Mnit mg/Kg mg/Kg mg/Kg	1000	<u></u>	Method NWTPH-Gx NWTPH-Dx	Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup
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## Client Sample ID: S-5-N3

Analyte TPH as Gasoline (C4-C13)		Qualifier	RL 110	Unit mg/Kg	Dil Fac 500	_	Method NWTPH-Gx	Prep Type Total/NA
TPH as Diesel Range	780		6.0	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	190		6.0	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-N3

Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1.8	0.23	mg/Kg	1   □ NWTPH-Gx	Total/NA

## Client Sample ID: S-2.5-O2

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	0.25	0.22	mg/Kg	1		Total/NA
TPH as Diesel Range	45	6.1	mg/Kg	1	☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	47	6.1	mg/Kg	1	☼ NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

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Lab Sample ID: 570-67715-17

Lab Sample ID: 570-67715-18

Lab Sample ID: 570-67715-19

Lab Sample ID: 570-67715-20

Lab Sample ID: 570-67715-21

Lab Sample ID: 570-67715-22

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## **Detection Summary**

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-O2				Lab Sample ID: 57	0-67715-23
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	67	12	mg/Kg	2 🌣 NWTPH-Dx	Silica Gel
L					Cleanup
Client Sample ID: S-7.5-C	)2			Lab Sample ID: 57	0-67715-24
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	5.4	0.47	mg/Kg	1 ☆ NWTPH-Gx	Total/NA
TPH as Diesel Range	240	74	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
					Cleanup
TPH as Motor Oil Range	1400	74	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
					Cleanup
Client Sample ID: S-10-O	2			Lab Sample ID: 57	0-67715-25
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1.3	0.66	mg/Kg	1 × NWTPH-Gx	Total/NA
Client Sample ID: S-12.5-	·O2			Lab Sample ID: 57	0-67715-26
 Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range		6.3	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
_					Cleanup
Client Sample ID: S-16-N	3			Lab Sample ID: 57	0-67715-27
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	15		mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
-					Cleanup

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

**Client Sample ID: S-2.5-N7** 

Date Collected: 08/17/21 06:45 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-1

**Matrix: Solid** 

1	Method: NWTPH-Gx - Northwe	st - Volatile	<b>Petroleun</b>	n Products (GC)					
/	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
7	TPH as Gasoline (C4-C13)	36		10	mg/Kg	☆	08/23/21 16:31	08/31/21 15:13	50
	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4	4-Bromofluorobenzene (Surr)	72		50 - 150			08/23/21 16:31	08/31/21 15:13	50

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6100		28	mg/Kg	— <u></u>	08/25/21 18:19	08/30/21 10:44	5
<b>TPH as Motor Oil Range</b>	2300		28	mg/Kg	☼	08/25/21 18:19	08/30/21 10:44	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	133		50 - 150			08/25/21 18:19	08/30/21 10:44	5

**Client Sample ID: S-5-N7** Lab Sample ID: 570-67715-2 **Matrix: Solid** 

Date Collected: 08/17/21 06:50

Date Received: 08/18/21 10:15

_ Method: NWTPH-Gx - NortI	hwest - Volatile	e Petroleur	n Products (GC	<b>;</b> )				
Analyte		Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1200		170	mg/Kg	<del>*</del>	08/23/21 16:31	08/31/21 17:37	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150			08/23/21 16:31	08/31/21 17:37	500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1600		6.7	mg/Kg	<u></u>	08/25/21 18:19	08/30/21 04:45	1
TPH as Motor Oil Range	37		6.7	mg/Kg	₩	08/25/21 18:19	08/30/21 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		50 - 150			08/25/21 18:19	08/30/21 04:45	1

Lab Sample ID: 570-67715-3 Client Sample ID: S-7.5-N7 **Matrix: Solid** 

Date Collected: 08/17/21 06:55

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Norti	hwest - Volatile	Petroleur	m Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	9500		890	mg/Kg	☼	08/23/21 16:31	08/31/21 18:01	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		50 - 150			08/23/21 16:31	08/31/21 18:01	500

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup - DL		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	24000		170	mg/Kg	<u></u>	08/25/21 18:19	08/30/21 17:24	10
TPH as Motor Oil Range	1000		170	mg/Kg	☼	08/25/21 18:19	08/30/21 17:24	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		50 - 150			08/25/21 18:19	08/30/21 17:24	10

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-N7

Client: Cardno, Inc

Date Collected: 08/17/21 07:00 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-4

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1400		350	mg/Kg	<del>*</del>	08/23/21 16:31	08/31/21 16:49	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150			08/23/21 16:31	08/31/21 16:49	250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4400		46	mg/Kg	₩	08/25/21 18:19	08/30/21 05:26	2
TPH as Motor Oil Range	1800		46	mg/Kg	☼	08/25/21 18:19	08/30/21 05:26	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	72		50 - 150			08/25/21 18:19	08/30/21 05:26	2

Lab Sample ID: 570-67715-5 Client Sample ID: S-12.5-N7 Date Collected: 08/17/21 07:05 **Matrix: Solid** 

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.85 mg/Kg 08/23/21 16:31 08/29/21 00:29 4.4 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 53 50 - 150 08/23/21 16:31 08/29/21 00:29

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	320		21	mg/Kg	<u></u>	08/25/21 18:19	08/30/21 05:48	1
TPH as Motor Oil Range	190		21	mg/Kg	₩	08/25/21 18:19	08/30/21 05:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	84		50 - 150			08/25/21 18:19	08/30/21 05:48	1

Client Sample ID: S-2.5-O6 Lab Sample ID: 570-67715-6 **Matrix: Solid** 

Date Collected: 08/17/21 07:35

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - North	west - Volatile	Petroleur	m Products (GC	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	170		58	mg/Kg	₩	08/23/21 16:31	08/31/21 16:25	250
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	Limits 50 - 150			Prepared 08/23/21 16:31	Analyzed 08/31/21 16:25	<b>Dil Fac</b> 250

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1000	52	mg/Kg	<del>-</del>	08/25/21 18:19	08/30/21 10:14	10
TPH as Motor Oil Range	1700	52	mg/Kg	≎	08/25/21 18:19	08/30/21 10:14	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	79	50 - 150			08/25/21 18:19	08/30/21 10:14	10

Lab Sample ID: 570-67715-7

Matrix: Solid

Job ID: 570-67715-1

Date Collected: 08/17/21 07:40 Date Received: 08/18/21 10:15

Client Sample ID: S-5-O6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2800		490	mg/Kg	<del></del>	08/23/21 16:31	08/31/21 18:25	2500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150			08/23/21 16:31	08/31/21 18:25	2500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2000		59	mg/Kg	<u></u>	08/25/21 18:19	08/30/21 10:34	10
TPH as Motor Oil Range	320		59	mg/Kg	₩	08/25/21 18:19	08/30/21 10:34	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	86		50 - 150			08/25/21 18:19	08/30/21 10:34	10

Client Sample ID: S-7.5-O6

Date Collected: 08/17/21 07:45

Lab Sample ID: 570-67715-8

Matrix: Solid

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - North			•	•	_	Duamanad	Amalumad	Dil Foo
Analyte	Result	Qualifier	RL	Unit	ט	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	200		24	mg/Kg	₽	08/23/21 16:31	08/31/21 15:36	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/23/21 16:31	08/31/21 15:36	100

Method: NWTPH-Dx - No	rthwest - Semi-Volatile Pe	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	220	5.7	mg/Kg	<del>-</del>	08/25/21 18:19	08/30/21 06:48	1
TPH as Motor Oil Range	ND	5.7	mg/Kg	₩	08/25/21 18:19	08/30/21 06:48	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93	50 - 150			08/25/21 18:19	08/30/21 06:48	1

Client Sample ID: S-10-O6

Date Collected: 08/17/21 07:50

Lab Sample ID: 570-67715-9

Matrix: Solid

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Northy	vest - Volatile	<b>Petroleur</b>	n Products (GC	<b>;</b> )					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	2900		590	mg/Kg	☼	08/23/21 16:31	08/31/21 18:49	2500	
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 08/23/21 16:31	Analyzed 08/31/21 18:49	<b>Dil Fac</b> 2500	

Method: NWTPH-Dx - Nort	hwest - Semi-Vola	itile Petroleum Produ	ucts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qu	ıalifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	600	6.1	mg/Kg	<del>*</del>	08/25/21 18:19	08/30/21 07:08	1
TPH as Motor Oil Range	27	6.1	mg/Kg	₩	08/25/21 18:19	08/30/21 07:08	1
Surrogate n-Octacosane (Surr)	%Recovery 90	Limits 50 - 150			<b>Prepared</b> 08/25/21 18:19	Analyzed 08/30/21 07:08	Dil Fac

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-O6

Lab Sample ID: 570-67715-10

**Matrix: Solid** 

Job ID: 570-67715-1

Date Collected: 08/17/21 07:55 Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Northw	vest - Volatile	Petroleur	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	210		22	mg/Kg	<del>-</del>	08/23/21 16:31	08/31/21 16:01	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150			08/23/21 16:31	08/31/21 16:01	100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	260		13	mg/Kg	₩	08/25/21 18:19	08/30/21 07:28	
TPH as Motor Oil Range	210		13	mg/Kg	₩	08/25/21 18:19	08/30/21 07:28	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
n-Octacosane (Surr)	94		50 - 150			-1	08/30/21 07:28	

**Client Sample ID: S-2.5-N5** Lab Sample ID: 570-67715-11 Date Collected: 08/17/21 08:20 **Matrix: Solid** 

Date Received: 08/18/21 10:15

- Method: NWTPH-Gx - Nortl	nwest - Volatile	e Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2000		230	mg/Kg	₩	08/23/21 16:31	08/31/21 17:13	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/23/21 16:31	08/31/21 17:13	500

Method: NWTPH-Dx - Nort	thwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	110000		380	mg/Kg	— <u></u>	08/25/21 18:19	08/30/21 17:44	50
TPH as Motor Oil Range	6300		380	mg/Kg	₩	08/25/21 18:19	08/30/21 17:44	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	169	S1+	50 - 150			08/25/21 18:19	08/30/21 17:44	50

Lab Sample ID: 570-67715-12 **Client Sample ID: S-5-N5** 

Date Collected: 08/17/21 08:25 Date Received: 08/18/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1100	Н	35	mg/Kg	☆	08/23/21 16:31	09/01/21 00:13	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	283	S1+	50 - 150			08/23/21 16:31	09/01/21 00:13	100

Analyte	Result Qualifier	KL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	820	33	mg/Kg	≎	08/25/21 18:19	08/30/21 17:09	5	
TPH as Motor Oil Range	51	33	mg/Kg	≎	08/25/21 18:19	08/30/21 17:09	5	
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	117	50 - 150			08/25/21 18:19	08/30/21 17:09		

**Matrix: Solid** 

Job ID: 570-67715-1

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-N5

Lab Sample ID: 570-67715-13 Date Collected: 08/17/21 08:30 Matrix: Solid

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac 0.21 08/23/21 16:31 08/31/21 23:29 TPH as Gasoline (C4-C13) 0.87 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 08/23/21 16:31 08/31/21 23:29 115

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac TPH as Diesel Range ND 6.0 mg/Kg 08/25/21 18:19 08/30/21 17:30 TPH as Motor Oil Range ND 6.0 mg/Kg 08/25/21 18:19 08/30/21 17:30

%Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed <u>08/25/21 18:19</u> <u>08/30/21 17:30</u> 50 - 150 n-Octacosane (Surr) 110

Client Sample ID: S-10-N5

Lab Sample ID: 570-67715-14 Date Collected: 08/17/21 08:35 **Matrix: Solid** 

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac 08/23/21 16:31 08/31/21 23:53 TPH as Gasoline (C4-C13) 9.4 0.24 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 75 50 - 150 08/23/21 16:31 08/31/21 23:53

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 32 6.0 mg/Kg 08/25/21 18:19 08/30/21 17:51 TPH as Motor Oil Range ND 6.0 mg/Kg 08/25/21 18:19 08/30/21 17:51 %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac n-Octacosane (Surr) 118 50 - 150 08/25/21 18:19 08/30/21 17:51

Client Sample ID: S-12.5-N5 Lab Sample ID: 570-67715-15

Date Collected: 08/17/21 08:40

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.98 mg/Kg 08/23/21 16:31 08/31/21 19:00

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 50 - 150 08/23/21 16:31 08/31/21 19:00 4-Bromofluorobenzene (Surr) 71

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 29 mg/Kg 08/25/21 18:19 08/30/21 18:13 TPH as Motor Oil Range ND 29 08/25/21 18:19 08/30/21 18:13 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/25/21 18:19 08/30/21 18:13 123

Matrix: Solid

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-O4

Date Collected: 08/17/21 09:15 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-16

**Matrix: Solid** 

Job ID: 570-67715-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)	

Analyte	Result	Qualifier	RL	Unit	ט	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	66	Н	4.7	mg/Kg	₩	08/23/21 16:31	09/01/21 10:25	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

50 - 150 08/23/21 16:31 09/01/21 10:25 4-Bromofluorobenzene (Surr) 71

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	230	6.1	mg/Kg	— <u>—</u>	08/25/21 18:19	08/31/21 15:06	1
TPH as Motor Oil Range	75	6.1	mg/Kg	☼	08/25/21 18:19	08/31/21 15:06	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122	50 - 150			08/25/21 18:19	08/31/21 15:06	1

Client Sample ID: S-12.5-O4 Lab Sample ID: 570-67715-17 Date Collected: 08/17/21 09:20 **Matrix: Solid** 

Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.2		0.74	mg/Kg	₩	08/23/21 16:31	08/31/21 18:34	1
	0/5	a						5=

Surrogate Prepared Analyzed %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 72 50 - 150 08/23/21 16:31 08/31/21 18:34

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		20	mg/Kg	₩	08/25/21 18:19	08/30/21 18:56	1
TPH as Motor Oil Range	62		20	mg/Kg	₩	08/25/21 18:19	08/30/21 18:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150			08/25/21 18:19	08/30/21 18:56	1

Client Sample ID: S-7.5-O6 DUP Lab Sample ID: 570-67715-18

Date Collected: 08/17/21 08:00 **Matrix: Solid** Date Received: 08/18/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result Qualifier 55	RL 3.9	Unit mg/Kg	D/∞ Prepared 08/23/21 16:31	Analyzed 08/31/21 23:44	Dil Fac
Surrogate  A Promofluorobonzono (Surr)	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1100		5.8	mg/Kg	<del></del>	08/25/21 18:19	08/30/21 19:17	1
TPH as Motor Oil Range	26		5.8	mg/Kg	☼	08/25/21 18:19	08/30/21 19:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	128		50 - 150			08/25/21 18:19	08/30/21 19:17	1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-N3

Date Collected: 08/17/21 09:30 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-19

**Matrix: Solid** 

Job ID: 570-67715-1

Method: NWTPH-Gx - North	west - Volatile Petroleum P	roducts (GC)
<b>∆nalyte</b>	Result Qualifier	RI

Analyte	Result	Qualifier	KL	Unit	ט	Prepared	Analyzea	DII Fac
TPH as Gasoline (C4-C13)	1700	Н	190	mg/Kg	<u></u>	08/23/21 16:31	09/01/21 10:51	1000

Surrogate	%Recovery Qu	ıalifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150	08/23/21 16:31 0	9/01/21 10:51	1000

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	930	5.5	mg/Kg	<del>-</del>	08/25/21 18:20	08/30/21 19:39	1
TPH as Motor Oil Range	9.5	5.5	mg/Kg	≎	08/25/21 18:20	08/30/21 19:39	1
Surrogato	%Pocovory Qualifier	l imite			Propared	Analyzod	Dil Eac

Prepared Analyzed Surrogate %Recovery Qualifier 08/25/21 18:20 08/30/21 19:39 n-Octacosane (Surr) 106 50 - 150

Client Sample ID: S-5-N3 Lab Sample ID: 570-67715-20 Date Collected: 08/17/21 09:35 **Matrix: Solid** 

Date Received: 08/18/21 10:15

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

				Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13) 880 H	110	mg/Kg	<del>*</del>	08/23/21 16:31	09/01/21 00:42	500

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	50 - 150	08/23/21 16:31	09/01/21 00:42	500

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

mounour mount in DX moralis	Tool Committee on the	olouin i louus	10 (OO) Oou	•••	roundp		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	780	6.0	mg/Kg	<del>-</del>	08/25/21 18:20	08/31/21 15:28	1
TPH as Motor Oil Range	190	6.0	mg/Kg	₩	08/25/21 18:20	08/31/21 15:28	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: S-7.5-N3 Lab Sample ID: 570-67715-21 **Matrix: Solid** 

50 - 150

Date Collected: 08/17/21 09:40 Date Received: 08/18/21 10:15

n-Octacosane (Surr)

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

139

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.8	0.23	mg/Kg	≎	08/23/21 16:31	08/31/21 23:15	1
	0/5	,					5=

Surrogate	/orvecovery	Quanner	Liiiits	riepareu Analyze	u Dirrac
4-Bromofluorobenzene (Surr)	193	S1+	50 - 150	08/23/21 16:31 08/31/21 23	3:15 1

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.2	mg/Kg	<del>-</del>	08/25/21 18:22	08/29/21 16:28	1
TPH as Motor Oil Range	ND		6.2	mg/Kg	☼	08/25/21 18:22	08/29/21 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		50 - 150			08/25/21 18:22	08/29/21 16:28	1

08/25/21 18:20 08/31/21 15:28

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-O2

Date Collected: 08/17/21 10:05 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-22

**Matrix: Solid** 

Method: NWTPH-Gx - Norti	hwest - Volatile	Petroleur	n Products (GC	<b>C</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.25		0.22	mg/Kg	<del>*</del>	08/23/21 16:31	08/31/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150			08/23/21 16:31	08/31/21 19:25	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	45		6.1	mg/Kg	— <u></u>	08/25/21 18:22	08/29/21 16:50	1
TPH as Motor Oil Range	47		6.1	mg/Kg	₩	08/25/21 18:22	08/29/21 16:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121		50 - 150			08/25/21 18:22	08/29/21 16:50	1

Lab Sample ID: 570-67715-23 Client Sample ID: S-5-O2 **Matrix: Solid** 

Date Collected: 08/17/21 10:10

Date Received: 08/18/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.18	mg/Kg	<del></del>	08/23/21 16:31	08/31/21 19:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1-	50 - 150			08/23/21 16:31	08/31/21 19:51	7

Method: NWTPH-Dx - North	west - Semi-V	olatile Pet	roleum Produ	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		12	mg/Kg	<u></u>	08/25/21 18:22	08/29/21 17:11	2
TPH as Motor Oil Range	67		12	mg/Kg	☼	08/25/21 18:22	08/29/21 17:11	2
Surrogate n-Octacosane (Surr)	%Recovery 86	Qualifier	Limits 50 - 150			<b>Prepared</b> 08/25/21 18:22	Analyzed 08/29/21 17:11	Dil Fac

Client Sample ID: S-7.5-O2 Lab Sample ID: 570-67715-24 **Matrix: Solid** 

Date Collected: 08/17/21 10:15 Date Received: 08/18/21 10:15

4-Bromofluorobenzene (Surr)

Surrogate

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 5.4 0.47 mg/Kg 

Limits

50 - 150

%Recovery Qualifier

73

Method: NWTPH-Dx - North Analyte	hwest - Semi-Volatile Po	etroleum Produc	ts (GC) - Silica Unit	Gel (	Cleanup Prepared	Analvzed	Dil Fac
TPH as Diesel Range	240	74	mg/Kg		08/25/21 18:22		5
TPH as Motor Oil Range	1400	74	mg/Kg	₽	08/25/21 18:22	08/29/21 17:33	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	128	50 - 150			08/25/21 18:22	08/29/21 17:33	5

Analyzed

Prepared

08/23/21 16:31 08/31/21 20:16

Dil Fac

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-O2

Date Collected: 08/17/21 10:20 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67715-25

**Matrix: Solid** 

TPH-Gx - Northwest - Volatile Petroleum Products (GC)
-------------------------------------------------------

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.3		0.66	mg/Kg	<u></u>	08/23/21 16:31	08/31/21 20:42	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	50 - 150	08/23/21 16:31	08/31/21 20:42	1

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		19	mg/Kg	₩	08/25/21 18:22	08/29/21 17:54	1
TPH as Motor Oil Range	ND		19	mg/Kg	₩	08/25/21 18:22	08/29/21 17:54	1
Surrogate	%Recovery (	Qualifier	Limits			Prepared	Analyzed	Dil Fac

rogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
ctacosane (Surr)	119	50 - 150	08/25/21 18:22	08/29/21 17:54	1

Client Sample ID: S-12.5-O2

Date Collected: 08/17/21 10:25 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67715-26

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND H	0.25	mg/Kg	≎	08/23/21 16:31	09/01/21 10:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150	08/23/21 16:31 09/01/21 10:00	1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.3	mg/Kg	— <u>—</u>	08/25/21 18:22	08/29/21 18:17	1
TPH as Motor Oil Range	14	6.3	mg/Kg	₩	08/25/21 18:22	08/29/21 18:17	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	64	50 - 150			08/25/21 18:22	08/29/21 18:17	1

Client Sample ID: S-16-N3 Lab Sample ID: 570-67715-27

Date Collected: 08/17/21 09:45 Date Received: 08/18/21 10:15

**Matrix: Solid** 

#### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.28	mg/Kg	☼	08/23/21 16:31	08/31/21 23:05	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85	50 - 150	08/23/21 16:31	08/31/21 23:05	1

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qu	ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND	11	mg/Kg	<del></del>	08/25/21 18:22	08/29/21 18:39	1
TPH as Motor Oil Range	15	11	mg/Kg	₩	08/25/21 18:22	08/29/21 18:39	1
Surrogate	%Recovery Qu	ualifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		50 - 150			08/25/21 18:22	08/29/21 18:39	1

**Eurofins Calscience LLC** 

# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-67715-1	S-2.5-N7	72	
570-67715-2	S-5-N7	97	
70-67715-3	S-7.5-N7	63	
70-67715-4	S-10-N7	82	
70-67715-5	S-12.5-N7	53	
70-67715-6	S-2.5-O6	61	
70-67715-7	S-5-O6	70	
70-67715-8	S-7.5-O6	70	
70-67715-9	S-10-O6	64	
70-67715-10	S-12.5-O6	67	
570-67715-11	S-2.5-N5	100	
70-67715-12	S-5-N5	283 S1+	
70-67715-13	S-7.5-N5	115	
570-67715-14	S-10-N5	75	
70-67715-15	S-12.5-N5	71	
70-67715-16	S-10-O4	71	
70-67715-17	S-12.5-O4	72	
70-67715-18	S-7.5-06 DUP	165 S1+	
70-67715-19	S-2.5-N3	90	
70-67715-20	S-5-N3	132	
70-67715-21	S-7.5-N3	193 S1+	
70-67715-22	S-2.5-O2	80	
70-67715-23	S-5-O2	0 S1-	
70-67715-24	S-7.5-O2	73	
70-67715-25	S-10-O2	69	
70-67715-26	S-12.5-O2	70	
70-67715-27	S-16-N3	85	
CS 570-175182/32	Lab Control Sample	76	
CS 570-175162/32 CS 570-175493/3	Lab Control Sample	93	
CS 570-175493/3 CS 570-175737/77	Lab Control Sample	81	
CS 570-175737/17 CS 570-175849/14	Lab Control Sample	106	
CS 570-175886/37	Lab Control Sample	89	
CSD 570-175666/37	•	85	
	Lab Control Sample Dup		
CSD 570-175493/4	Lab Control Sample Dup	90	
CSD 570-175737/78	Lab Control Sample Dup	81	
CSD 570-175849/15	Lab Control Sample Dup	108	
CSD 570-175886/38 IB 570-175182/34	Lab Control Sample Dup	93	
	Method Blank	55	
1B 570-175493/5	Method Blank	79	
MB 570-175737/51	Method Blank	74	
MB 570-175849/4	Method Blank	78	
MB 570-175849/5	Method Blank	79	
MB 570-175886/39	Method Blank	78	
/IB 570-175886/40	Method Blank	81	

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# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-67715-1	S-2.5-N7	133	
570-67715-1 MS	S-2.5-N7	131	
570-67715-1 MS	S-2.5-N7	102	
570-67715-1 MSD	S-2.5-N7	124	
570-67715-1 MSD	S-2.5-N7	128	
570-67715-2	S-5-N7	95	
570-67715-3 - DL	S-7.5-N7	106	
570-67715-4	S-10-N7	72	
570-67715-5	S-12.5-N7	84	
570-67715-6	S-2.5-O6	79	
570-67715-7	S-5-O6	86	
570-67715-8	S-7.5-O6	93	
570-67715-9	S-10-O6	90	
570-67715-10	S-12.5-O6	94	
570-67715-11	S-2.5-N5	169 S1+	
570-67715-12	S-5-N5	117	
570-67715-13	S-7.5-N5	110	
570-67715-14	S-10-N5	118	
570-67715-15	S-12.5-N5	123	
570-67715-16	S-10-O4	122	
570-67715-17	S-12.5-O4	98	
570-67715-18	S-7.5-06 DUP	128	
570-67715-19	S-2.5-N3	106	
570-67715-20	S-5-N3	139	
570-67715-21	S-7.5-N3	115	
570-67715-22	S-2.5-O2	121	
570-67715-22 MS	S-2.5-O2	115	
570-67715-22 MS	S-2.5-O2	115	
570-67715-22 MSD	S-2.5-O2	121	
570-67715-22 MSD	S-2.5-O2	115	
570-67715-23	S-5-O2	86	
570-67715-24	S-7.5-O2	128	
570-67715-25	S-10-O2	119	
570-67715-26	S-12.5-O2	64	
570-67715-27	S-16-N3	114	
_CS 570-174384/2-A	Lab Control Sample	120	
_CS 570-174384/6-A	Lab Control Sample	116	
_CS 570-174385/2-A	Lab Control Sample	119	
_CS 570-174385/6-A	Lab Control Sample	118	
CSD 570-174303/0-A	Lab Control Sample Dup	119	
LCSD 570-174384/7-A	Lab Control Sample Dup	115	
LCSD 570-174385/3-A	Lab Control Sample Dup	120	
_CSD 570-174385/7-A	Lab Control Sample Dup	120	
MB 570-174384/1-A	Method Blank	120	
MB 570-174364/1-A MB 570-174385/1-A	Method Blank	120	
VID 310-114303/1-A	IVICUIOU DIAIIK	120	

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: MB 570-175182/34

Lab Sample ID: LCS 570-175182/32

Job ID: 570-67715-1

Prep Type: Total/NA

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 175182** 

MB MB

Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 0.25 08/28/21 23:42 TPH as Gasoline (C4-C13) ND mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 55 50 - 150 08/28/21 23:42

**Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 175182** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.13 2.172 mg/Kg 102 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 76

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-175182/33 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 175182** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.10 2.175 mg/Kg 104 77 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 85 50 - 150

Lab Sample ID: MB 570-175493/5

**Analysis Batch: 175493** 

**Matrix: Solid Prep Type: Total/NA** 

MB MB

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.25 mg/Kg 08/31/21 08:13

MB MB

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 08/31/21 08:13 79

Lab Sample ID: LCS 570-175493/3

**Matrix: Solid** 

**Analysis Batch: 175493** 

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Analyte 2.12 77 - 128 TPH as Gasoline (C4-C13) 1.762 mg/Kg 83

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 93

Eurofins Calscience LLC

Prep Type: Total/NA

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: LCSD 570-175493/4

Job ID: 570-67715-1

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 175493** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.12	1.759		mg/Kg		83	77 - 128	0	16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr)

Lab Sample ID: MB 570-175737/51 **Client Sample ID: Method Blank** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 175737** 

	INIR	MB						
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg	<del></del> _		08/31/21 09:10	20

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150		08/31/21 09:10	20

Lab Sample ID: LCS 570-175737/77 **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 175737** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	 2.10	2.148		mg/Kg		102	77 - 128	 

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 81 50 - 150

Lab Sample ID: LCSD 570-175737/78 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 175737** 

		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)		2 13	2 020		ma/Ka		95	77 - 128	6	16

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 81

Lab Sample ID: MB 570-175849/4

4-Bromofluorobenzene (Surr)

Matrix: Solid Analysis Batch: 175849							Prep Type: To	otal/NA
•	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/31/21 20:44	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

50 - 150

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08/31/21 20:44

Client Sample ID: Method Blank

Job ID: 570-67715-1

**Prep Type: Total/NA** 

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: MB 570-175849/5

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Client Sample ID: Method Blank** 

**Matrix: Solid** 

Client: Cardno, Inc

Analysis Batch: 175849

	MIR MIR						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND ND	5.0	mg/Kg			08/31/21 21:19	20

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150		08/31/21 21:19	20

Lab Sample ID: LCS 570-175849/14 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 175849

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
TPH as Gasoline (C4-C13)	2.12	2.015		mg/Kg	_	95	77 - 128

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-175849/15 **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 175849

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.11	2.026		mg/Kg		96	77 - 128	1	16

LCSD LCSD

MB MB

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 108 50 - 150

Lab Sample ID: MB 570-175886/39 **Client Sample ID: Method Blank** 

**Matrix: Solid** 

**Analysis Batch: 175886** 

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND —	5.0	mg/Kg			08/31/21 23:47	20

MB MB Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 08/31/21 23:47 50 - 150 78

Lab Sample ID: MB 570-175886/40 **Client Sample ID: Method Blank** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 175886

•	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			09/01/21 00:13	1
	МВ	MB						

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 09/01/21 00:13 81

Prep Type: Total/NA

Job ID: 570-67715-1 Project/Site: ExxonMobil ADC / 0314476040

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-175886/37

**Matrix: Solid** 

Analysis Batch: 175886

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.13 1.796 mg/Kg 84 77 - 128

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-175886/38

**Matrix: Solid** 

Analysis Batch: 175886

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 77 - 128 TPH as Gasoline (C4-C13) 2.13 1.858 mg/Kg 87 3

LCSD LCSD

Surrogate %Recovery Qualifier Limits

50 - 150 4-Bromofluorobenzene (Surr)

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-174384/1-A

**Matrix: Solid** 

**Analysis Batch: 175228** 

Prep Type: Silica Gel Cleanup

Prep Batch: 174384

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed D Dil Fac TPH as Diesel Range 5.0 mg/Kg 08/25/21 18:19 08/29/21 16:07 ND TPH as Motor Oil Range ND 5.0 mg/Kg 08/25/21 18:19 08/29/21 16:07

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 120 50 - 150 08/25/21 18:19 08/29/21 16:07

Lab Sample ID: LCS 570-174384/2-A

**Matrix: Solid** 

**Analysis Batch: 175228** 

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup Prep Batch: 174384 LCS LCS

%Rec.

Spike Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 407.9 102 76 - 126 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 120 50 - 150

Lab Sample ID: LCS 570-174384/6-A

**Matrix: Solid** 

**Analysis Batch: 175228** 

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

**Prep Batch: 174384** 

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 400 420.5 105 71 - 139 mg/Kg

LCS LCS

%Recovery Qualifier Limits Surrogate

n-Octacosane (Surr) 50 - 150 116

**Eurofins Calscience LLC** 

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

n-Octacosane (Surr)

Surrogate

Surrogate

n-Octacosane (Surr)

n-Octacosane (Surr)

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

119

%Recovery Qualifier

**%Recovery Qualifier** 

131

115

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 175228	)-174384/3-A			(	Client Sar	ample ID: Lab Control Sample Dup Prep Type: Silica Gel Cleanup Prep Batch: 174384					
		Spike	LCSD	LCSD				%Rec.		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
TPH as Diesel (C10-C28)		400	428.9		mg/Kg		107	76 - 126	5	20	
	LCSD LCSL	)									
Surrogate	%Recovery Quali	ifier Limits									

Lab Sample ID: LCSD 570-174384/7-A Matrix: Solid			(	Client Sa			Control ce: Silica		
Analysis Batch: 175228							Prep Ba	atch: 1	74384
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	400	402.6		mg/Kg		101	71 - 139	4	20
LCSD LCSD									

50 - 150

Limits

Limits

50 - 150

50 - 150

Lab Sample ID: 570-67715- Matrix: Solid	1 MS						P			ID: S-2.5-N7 Gel Cleanup
Analysis Batch: 175228									Prep Ba	atch: 174384
-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	6900		454	6533	4	mg/Kg	<del>-</del>	-74	37 - 175	
	MS	MS								

Lab Sample ID: 570-67715-1 MS			Client Sample ID: S-2.5-N7
Matrix: Solid			•
			Prep Type: Silica Gel Cleanup
Analysis Batch: 175228			Prep Batch: 174384
Sample Sample	Snika	MC MC	%Pac

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	5500	E F2	455	4561	E 4	mg/Kg	₩	-197	71 - 174	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	102		50 - 150

Lab Sample ID: 570-67715 Matrix: Solid	-1 MSD						P		t Sample be: Silica	Gel Cle	anup
Analysis Batch: 175228									Prep Ba	atch: 17	74384
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	6900		441	7429	4	mg/Kg	☆	127	37 - 175	13	20
	MSD	MSD									

%Recovery Qualifier Limits Surrogate 50 - 150 n-Octacosane (Surr) 124

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Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

n-Octacosane (Surr)

n-Octacosane (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-67715-1 MSD

Matrix: Solid

Analysis Batch: 175228

Client Sample ID: S-2.5-N7

Prep Type: Silica Gel Cleanup

Prep Batch: 174384

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	5500	E F2	444	8761	E 4 F2	mg/Kg	☆	744	71 - 174	63	20

 MSD
 MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 n-Octacosane (Surr)
 128
 50 - 150

Lab Sample ID: MB 570-174385/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Silica Gel Cleanup

Analysis Batch: 175228 Prep Batch: 174385

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range ND 5.0 mg/Kg 08/25/21 18:22 08/29/21 12:33 TPH as Motor Oil Range ND 5.0 mg/Kg 08/25/21 18:22 08/29/21 12:33 MB MB

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier Limits
 Limits
 Prepared 08/25/21 18:22
 Analyzed 08/29/21 12:33
 Dil Fac 08/25/21 18:22

Lab Sample ID: LCS 570-174385/2-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Silica Gel Cleanup

50 - 150

50 - 150

TPH as Diesel (C10-C28) 400 424.6 mg/Kg 106

LCS LCS

Surrogate %Recovery Qualifier Limits

119

118

Lab Sample ID: LCS 570-174385/6-A

Client Sample ID: Lab Control Sample
Matrix: Solid

Prep Type: Silica Gel Cleanup

 Analysis Batch: 175228
 Prep Batch: 174385

 Spike
 LCS
 LCS
 LCS
 KRec.

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

 TPH as Motor Oil (C17-C44)
 400
 431.3
 mg/Kg
 108
 71 - 139

TPH as Motor Oil (C17-C44)

LCS LCS

Surrogate 
%Recovery Qualifier Limits

Lab Sample ID: LCSD 570-174385/3-A

Matrix: Solid

Analysis Batch: 175228

Client Sample ID: Lab Control Sample Dup
Prep Type: Silica Gel Cleanup
Prep Batch: 174385

Spike LCSD LCSD RPD %Rec %Rec Analyte Added Result Qualifier Unit Limits RPD Limit TPH as Diesel (C10-C28) 400 437.2 mg/Kg 109 76 - 126

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76 - 126

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 175228	)-174385/7-A				C	Client Sa			Control : be: Silica Prep Ba	Gel Cle	anup
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)			400	433.3		mg/Kg		108	71 - 139	0	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	120		50 - 150								

Lab Sample ID: 570-67715 Matrix: Solid Analysis Batch: 175228	5-22 MS						P		t Sample ID be: Silica Ge Prep Bato	el Cleanup
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	61		489	579.5		mg/Kg	<del>-</del>	106	37 - 175	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	115		<u>50 - 150</u>							

Lab Sample ID: 5/0-6//1	5-22 IVIS							Cilen	t Sample	ID: S-2.5-02
Matrix: Solid							P	rep Typ	e: Silica	Gel Cleanup
Analysis Batch: 175228									Prep Ba	atch: 174385
-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	87		487	534.0		mg/Kg	☆	92	71 - 174	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	115		50 - 150							

Lab Sample ID: 5/0-6//1	5-22 MSD							Cilen	it Sample	ID: 5-2	.5-02
Matrix: Solid							P	rep Ty	oe: Silica	Gel Cle	anup
Analysis Batch: 175228									Prep Ba	atch: 17	74385
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	61		497	600.9		mg/Kg	<del>-</del>	109	37 - 175	4	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	121		50 - 150								

Lab Sample ID: 570-67719 Matrix: Solid Analysis Batch: 175228	5-22 MSD						P		t Sample be: Silica ( Prep Ba	Gel Cle	anup
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	87		480	543.4		mg/Kg	<u></u>	95	71 - 174	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	115		50 - 150								

# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

### **GC VOA**

### **Prep Batch: 173703**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-5	S-12.5-N7	Total/NA	Solid	5035	
570-67715-12	S-5-N5	Total/NA	Solid	5035	
570-67715-13	S-7.5-N5	Total/NA	Solid	5035	
570-67715-14	S-10-N5	Total/NA	Solid	5035	
570-67715-15	S-12.5-N5	Total/NA	Solid	5035	
570-67715-17	S-12.5-O4	Total/NA	Solid	5035	
570-67715-18	S-7.5-O6 DUP	Total/NA	Solid	5035	
570-67715-20	S-5-N3	Total/NA	Solid	5035	
570-67715-21	S-7.5-N3	Total/NA	Solid	5035	
570-67715-22	S-2.5-O2	Total/NA	Solid	5035	
570-67715-23	S-5-O2	Total/NA	Solid	5035	
570-67715-24	S-7.5-O2	Total/NA	Solid	5035	
570-67715-25	S-10-O2	Total/NA	Solid	5035	
570-67715-26	S-12.5-O2	Total/NA	Solid	5035	
570-67715-27	S-16-N3	Total/NA	Solid	5035	

### **Prep Batch: 173704**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-1	S-2.5-N7	Total/NA	Solid	5035	
570-67715-2	S-5-N7	Total/NA	Solid	5035	
570-67715-3	S-7.5-N7	Total/NA	Solid	5035	
570-67715-4	S-10-N7	Total/NA	Solid	5035	
570-67715-6	S-2.5-O6	Total/NA	Solid	5035	
570-67715-7	S-5-O6	Total/NA	Solid	5035	
570-67715-8	S-7.5-O6	Total/NA	Solid	5035	
570-67715-9	S-10-O6	Total/NA	Solid	5035	
570-67715-10	S-12.5-O6	Total/NA	Solid	5035	
570-67715-11	S-2.5-N5	Total/NA	Solid	5035	
570-67715-16	S-10-O4	Total/NA	Solid	5035	
570-67715-19	S-2.5-N3	Total/NA	Solid	5035	

#### **Analysis Batch: 175182**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-5	S-12.5-N7	Total/NA	Solid	NWTPH-Gx	173703
MB 570-175182/34	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175182/32	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175182/33	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 175493**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-15	S-12.5-N5	Total/NA	Solid	NWTPH-Gx	173703
570-67715-17	S-12.5-O4	Total/NA	Solid	NWTPH-Gx	173703
570-67715-22	S-2.5-O2	Total/NA	Solid	NWTPH-Gx	173703
570-67715-23	S-5-O2	Total/NA	Solid	NWTPH-Gx	173703
570-67715-24	S-7.5-O2	Total/NA	Solid	NWTPH-Gx	173703
570-67715-25	S-10-O2	Total/NA	Solid	NWTPH-Gx	173703
MB 570-175493/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175493/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175493/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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Client: Cardno, Inc Job ID: 570-67715-1

**GC VOA** 

### **Analysis Batch: 175737**

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-1	S-2.5-N7	Total/NA	Solid	NWTPH-Gx	173704
570-67715-2	S-5-N7	Total/NA	Solid	NWTPH-Gx	173704
570-67715-3	S-7.5-N7	Total/NA	Solid	NWTPH-Gx	173704
570-67715-4	S-10-N7	Total/NA	Solid	NWTPH-Gx	173704
570-67715-6	S-2.5-O6	Total/NA	Solid	NWTPH-Gx	173704
570-67715-7	S-5-O6	Total/NA	Solid	NWTPH-Gx	173704
570-67715-8	S-7.5-O6	Total/NA	Solid	NWTPH-Gx	173704
570-67715-9	S-10-O6	Total/NA	Solid	NWTPH-Gx	173704
570-67715-10	S-12.5-O6	Total/NA	Solid	NWTPH-Gx	173704
570-67715-11	S-2.5-N5	Total/NA	Solid	NWTPH-Gx	173704
MB 570-175737/51	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175737/77	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175737/78	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### Analysis Batch: 175849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-12	S-5-N5	Total/NA	Solid	NWTPH-Gx	173703
570-67715-18	S-7.5-O6 DUP	Total/NA	Solid	NWTPH-Gx	173703
570-67715-20	S-5-N3	Total/NA	Solid	NWTPH-Gx	173703
570-67715-21	S-7.5-N3	Total/NA	Solid	NWTPH-Gx	173703
MB 570-175849/4	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-175849/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175849/14	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175849/15	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Analysis Batch: 175886**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-16	S-10-O4	Total/NA	Solid	NWTPH-Gx	173704
570-67715-19	S-2.5-N3	Total/NA	Solid	NWTPH-Gx	173704
570-67715-26	S-12.5-O2	Total/NA	Solid	NWTPH-Gx	173703
MB 570-175886/39	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-175886/40	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175886/37	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175886/38	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### Analysis Batch: 175904

Lab Sample	ID Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-1	3 S-7.5-N5	Total/NA	Solid	NWTPH-Gx	173703
570-67715-1	4 S-10-N5	Total/NA	Solid	NWTPH-Gx	173703
570-67715-2	77 S-16-N3	Total/NA	Solid	NWTPH-Gx	173703

### **GC Semi VOA**

#### **Prep Batch: 174384**

Lab Sample ID 570-67715-1	Client Sample ID S-2.5-N7	Prep Type Silica Gel Cleanup	Matrix Solid	Method 3550C SGC	Prep Batch
570-67715-2	S-5-N7	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-3 - DL	S-7.5-N7	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-4	S-10-N7	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-5	S-12.5-N7	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-6	S-2.5-O6	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

# GC Semi VOA (Continued)

### Prep Batch: 174384 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-7	S-5-O6	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-8	S-7.5-O6	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-9	S-10-O6	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-10	S-12.5-O6	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-11	S-2.5-N5	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-12	S-5-N5	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-13	S-7.5-N5	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-14	S-10-N5	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-15	S-12.5-N5	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-16	S-10-O4	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-17	S-12.5-O4	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-18	S-7.5-O6 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-19	S-2.5-N3	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-20	S-5-N3	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-174384/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174384/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174384/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174384/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174384/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-1 MS	S-2.5-N7	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-1 MS	S-2.5-N7	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-1 MSD	S-2.5-N7	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-1 MSD	S-2.5-N7	Silica Gel Cleanup	Solid	3550C SGC	

#### **Prep Batch: 174385**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-21	S-7.5-N3	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-22	S-2.5-O2	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-23	S-5-O2	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-24	S-7.5-O2	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-25	S-10-O2	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-26	S-12.5-O2	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-27	S-16-N3	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-174385/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174385/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174385/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174385/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174385/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-22 MS	S-2.5-O2	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-22 MS	S-2.5-O2	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-22 MSD	S-2.5-O2	Silica Gel Cleanup	Solid	3550C SGC	
570-67715-22 MSD	S-2.5-O2	Silica Gel Cleanup	Solid	3550C SGC	

### **Analysis Batch: 175226**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-2	S-5-N7	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-4	S-10-N7	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-5	S-12.5-N7	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-6	S-2.5-O6	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-7	S-5-O6	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-8	S-7.5-O6	Silica Gel Cleanup	Solid	NWTPH-Dx	174384

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# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

# GC Semi VOA (Continued)

### **Analysis Batch: 175226 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-9	S-10-06	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-10	S-12.5-O6	Silica Gel Cleanup	Solid	NWTPH-Dx	174384

### **Analysis Batch: 175228**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-1	S-2.5-N7	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-21	S-7.5-N3	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
570-67715-22	S-2.5-O2	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
570-67715-23	S-5-O2	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
570-67715-24	S-7.5-O2	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
570-67715-25	S-10-O2	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
570-67715-26	S-12.5-O2	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
570-67715-27	S-16-N3	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
MB 570-174384/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
MB 570-174385/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
LCS 570-174384/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
LCS 570-174384/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
LCS 570-174385/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
LCS 570-174385/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
LCSD 570-174384/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
LCSD 570-174384/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
LCSD 570-174385/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
LCSD 570-174385/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
570-67715-1 MS	S-2.5-N7	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-1 MS	S-2.5-N7	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-1 MSD	S-2.5-N7	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-1 MSD	S-2.5-N7	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-22 MS	S-2.5-O2	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
570-67715-22 MS	S-2.5-O2	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
570-67715-22 MSD	S-2.5-O2	Silica Gel Cleanup	Solid	NWTPH-Dx	174385
570-67715-22 MSD	S-2.5-O2	Silica Gel Cleanup	Solid	NWTPH-Dx	174385

### **Analysis Batch: 175333**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-3 - DL	S-7.5-N7	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-11	S-2.5-N5	Silica Gel Cleanup	Solid	NWTPH-Dx	174384

### **Analysis Batch: 175405**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-12	S-5-N5	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-13	S-7.5-N5	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-14	S-10-N5	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-15	S-12.5-N5	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-16	S-10-O4	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-17	S-12.5-O4	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-18	S-7.5-O6 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-19	S-2.5-N3	Silica Gel Cleanup	Solid	NWTPH-Dx	174384
570-67715-20	S-5-N3	Silica Gel Cleanup	Solid	NWTPH-Dx	174384

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Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-N7

Date Collected: 08/17/21 06:45 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.018 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC1		50	5 mL	5 mL	175737	08/31/21 15:13	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.27 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175228	08/30/21 10:44	N1A	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-5-N7 Lab Sample ID: 570-67715-2 **Matrix: Solid** 

Date Collected: 08/17/21 06:50 Date Received: 08/18/21 10:15

Dil Initial Final Batch Batch Batch Prepared **Prep Type** Method Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 173704 Prep 5.05 g 5 mL 08/23/21 16:31 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** ECL 2 500 5 mL 5 mL 175737 08/31/21 17:37 A9VE Instrument ID: GC1 Silica Gel Cleanup 3550C SGC 10.08 g 10 mL 174384 08/25/21 18:19 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175226 08/30/21 04:45 A1W ECL 1 Instrument ID: GC50

Client Sample ID: S-7.5-N7 Date Collected: 08/17/21 06:55

Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-3

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.452 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC1		500	5 mL	5 mL	175737	08/31/21 18:01	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC	DL		10.09 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	,	NWTPH-Dx	DL	10			175333	08/30/21 17:24	UJ3K	ECL 1
	,	nt ID: GC50								

Client Sample ID: S-10-N7 Lab Sample ID: 570-67715-4 **Matrix: Solid** 

Date Collected: 08/17/21 07:00 Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.2 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175737	08/31/21 16:49	A9VE	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175226	08/30/21 05:26	A1W	ECL 1
	Instrumen	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-N7

Date Collected: 08/17/21 07:05 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-5

Lab Sample ID: 570-67715-7

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.467 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC57		1	5 g	5 mL	175182	08/29/21 00:29	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.20 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 05:48	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-O6 Lab Sample ID: 570-67715-6 Date Collected: 08/17/21 07:35

Date Received: 08/18/21 10:15

Batch Dil Initial Final Batch Batch Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 173704 Prep 5.845 g 5 mL 08/23/21 16:31 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** ECL 2 250 5 mL 5 mL 175737 08/31/21 16:25 A9VE Instrument ID: GC1 Silica Gel Cleanup 3550C SGC 10.34 g 10 mL 174384 08/25/21 18:19 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 10 175226 08/30/21 10:14 A1W ECL 1 Instrument ID: GC50

Client Sample ID: S-5-O6 Date Collected: 08/17/21 07:40

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.531 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		2500	5 mL	5 mL	175737	08/31/21 18:25	A9VE	ECL 2
	Instrumer	nt ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175226	08/30/21 10:34	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-7.5-O6 Lab Sample ID: 570-67715-8 Date Collected: 08/17/21 07:45 **Matrix: Solid** 

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.174 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	175737	08/31/21 15:36	A9VE	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.36 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 06:48	A1W	ECL 1
	Instrumen	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

**Client Sample ID: S-10-06** 

Date Collected: 08/17/21 07:50 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-9

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.642 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC1		2500	5 mL	5 mL	175737	08/31/21 18:49	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.29 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 07:08	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-12.5-O6

Date Collected: 08/17/21 07:55 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-10

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.222 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	175737	08/31/21 16:01	A9VE	ECL 2
	Instrumer	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175226	08/30/21 07:28	A1W	ECL 1
	Instrumer	t ID: GC50								

**Client Sample ID: S-2.5-N5** 

Date Collected: 08/17/21 08:20 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-11

Lab Sample ID: 570-67715-12

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.307 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC1		500	5 mL	5 mL	175737	08/31/21 17:13	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.33 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx at ID: GC50		50			175333	08/30/21 17:44	UJ3K	ECL 1

**Client Sample ID: S-5-N5** 

Date Collected: 08/17/21 08:25

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.824 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	175849	09/01/21 00:13	P1R	ECL 2
	Instrumen	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/30/21 17:09	N1A	ECL 1
	Instrumen	t ID: GC48								

Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-N5

Client: Cardno, Inc

Date Collected: 08/17/21 08:30 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-13

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.212 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC56		1	5 g	5 mL	175904	08/31/21 23:29	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/30/21 17:30	N1A	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: S-10-N5** 

Date Collected: 08/17/21 08:35

Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-14

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.514 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC56		1	5 g	5 mL	175904	08/31/21 23:53	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.45 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/30/21 17:51	N1A	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: S-12.5-N5** 

Date Collected: 08/17/21 08:40

Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-15

Lab Sample ID: 570-67715-16

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.419 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175493	08/31/21 19:00	P1R	ECL 2
	Instrumer	nt ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.00 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/30/21 18:13	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-O4

Date Collected: 08/17/21 09:15

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.814 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	175886	09/01/21 10:25	A9VE	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.53 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 15:06	N1A	ECL 1
	Instrumen	t ID: GC48								

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Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-O4

Client: Cardno, Inc

Date Collected: 08/17/21 09:20 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-17

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.738 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC22		1	5 g	5 mL	175493	08/31/21 18:34	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/30/21 18:56	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-O6 DUP

Date Collected: 08/17/21 08:00

Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-18

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.529 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	175849	08/31/21 23:44	P1R	ECL 2
	Instrumer	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/30/21 19:17	N1A	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-2.5-N3

Date Collected: 08/17/21 09:30

Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-19

Lab Sample ID: 570-67715-20

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.227 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC22		1000	5 mL	5 mL	175886	09/01/21 10:51	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	174384	08/25/21 18:20	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/30/21 19:39	N1A	ECL 1
	Instrumer	t ID: GC48								

**Client Sample ID: S-5-N3** 

Date Collected: 08/17/21 09:35

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.952 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175849	09/01/21 00:42	P1R	ECL 2
	Instrumer	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	174384	08/25/21 18:20	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 15:28	N1A	ECL 1
	Instrumer	t ID: GC48								

**Eurofins Calscience LLC** 

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Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-N3

Date Collected: 08/17/21 09:40 Date Received: 08/18/21 10:15

Lab Sample ID: 570-67715-21

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.86 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC25		1	5 g	5 mL	175849	08/31/21 23:15	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.35 g	10 mL	174385	08/25/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/29/21 16:28	N1A	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-67715-22 Client Sample ID: S-2.5-O2 Date Collected: 08/17/21 10:05 **Matrix: Solid** 

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.973 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175493	08/31/21 19:25	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	174385	08/25/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/29/21 16:50	N1A	ECL 1
	Instrumen	t ID: GC48								

Lab Sample ID: 570-67715-23 **Client Sample ID: S-5-O2** Date Collected: 08/17/21 10:10

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.267 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175493	08/31/21 19:51	P1R	ECL 2
	Instrumer	nt ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	174385	08/25/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175228	08/29/21 17:11	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-O2 Lab Sample ID: 570-67715-24 Date Collected: 08/17/21 10:15 **Matrix: Solid** 

Date Received: 08/18/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.019 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175493	08/31/21 20:16	P1R	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174385	08/25/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175228	08/29/21 17:33	N1A	ECL 1
	Instrumen	t ID: GC48								

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-O2

Date Collected: 08/17/21 10:20 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67715-25

Matrix: Solid

Batch Batch Batch Dil Initial Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount Amount** Analyst Lab Total/NA 5035 173703 08/23/21 16:31 ECL 2 Prep 7.195 g 5 g EDZ4 Total/NA **NWTPH-Gx** 175493 08/31/21 20:42 P1R ECL 2 Analysis 1 5 g 5 mL Instrument ID: GC22 Silica Gel Cleanup Prep 3550C SGC 10.08 g 10 mL 174385 08/25/21 18:22 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 175228 08/29/21 17:54 N1A ECL 1 Instrument ID: GC48

Client Sample ID: S-12.5-O2 Lab Sample ID:

Date Collected: 08/17/21 10:25 Date Received: 08/18/21 10:15 Lab Sample ID: 570-67715-26 Matrix: Solid

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5 g Prep 5035 6.283 g 173703 08/23/21 16:31 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 175886 09/01/21 10:00 A9VE ECL 2 Instrument ID: GC22 Silica Gel Cleanup 3550C SGC 10.12 g 10 mL 174385 08/25/21 18:22 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 175228 08/29/21 18:17 N1A ECL 1 Analysis 1

Client Sample ID: S-16-N3 Lab Sample ID: 570-67715-27

Date Collected: 08/17/21 09:45 Date Received: 08/18/21 10:15

Instrument ID: GC48

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			9.41 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	175904	08/31/21 23:05	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	174385	08/25/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/29/21 18:39	N1A	ECL 1
	Instrumer	nt ID: GC48								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-67715-1

Project/Site: ExxonMobil ADC / 0314476040

# **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-11-21

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# **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5035	Closed System Purge and Trap	SW846	ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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Job ID: 570-67715-1

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Calst	elice							
	TEL: (714) 895-5494 FAX. (714) 894-7501	X. (714) 894-7501	Retail	Project (MRN) Project (AFE)			PAGE OF 2	
ExxonMobil Engr	Jennifer Sedlachek		Projec	Project Name	EX	ExxonMobil ADC / 0314476040		
PARTON OF THE PA								
Cardno					GLOBAL ID # COELT LOG CODE	CODE:	P O 0314476040 Agreement# A2604415	12604415
309 South Cloverdale Street Unit A13	Street Unit A13				PROJECT CONTACT:		LABUSE ONE	1-41
Seattle, WA 98108					Robert Thompson	Robert Thompson	GOOLER REGEIPT	
206-510-5855	N/A	robert.thompson@ca	pson@can	rdno.com	ייייי רבע(ס) א		Temor≠	3,
SAME DAY   24 HR	☐48 HR ☐72 HR	□ 5 DAYS	J 10 DAYS			REQUE	REQUESTED ANALYSIS	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWQCB REPORTING  ARCHI	L COSTS MAY APPLY)	mit.	1					
ECIAL INSTRUCTIONS: uired EIM and Cardno EDDs. P	special. INSTRUCTIONS. Aguired EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analy	s. Group results by sample	not by analys	sis method.	se Gas			
nclude % Moisture in report for dry All units in mg/kg. Report to: Isina colesPosition com	iclude */ Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert thompson@ca Il units in mg/kg. anort for laina rollaficardno com, robert thompson@cardno.com, and cameron canner-ash@cardno.com	.cole@cardno.com, robert.! cameron cenner-ash@car		rdno.com	GSM\2		570-67715 Chain of Custody	1
		SAMPLING	_	NO. OF CONT	D-Hq			
USE SAMPLE ID	Field Point Name	DATE TIME	ž		TWŃ		CONTAINER TYPE	
S-2.5-N7	472	8/17/2021 0645	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
S-5- N7	NG		-	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
S-7 5-N7	ZW.	_		4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
4 S-10-N7	N/N	2010 12021 18/15/05	n u	4 4	< ×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar 2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved plass far	one 4oz un-preserved glass jar one 4oz un-preserved glass jar	
8-25-06	30		-	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un preserved glass jar	one 4oz un-preserved glass jar	
3-5- OL	90			4	×	2 Sodium Bisufate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
S-7 5-06	90	-	-	4	+	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
_	8	84 1 2021 LVS	00	4	< >	2 Sodium Bisuitate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
20-5-12 0V	3,		+	4	-	2 Sodium Bisultate VOAs, 1 Methanol VOA, one 402 un-preserved glass lar	one 4oz un-preserved glass jar	
12. S-5- NS	2/4	8/17 /2021 0535		4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
S-7.5	NS			4	$\vdash$	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ons 4oz un-preserved glass jar	
M S-10-NS	WS	311	S	4	××	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ons 4oz un-preserved glass jar	
S-125- NS	SW	8/17/2021 034	0 4	4	< <b>*</b>	2 Sodium Bisuitale VOAs, 1 Metrianol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
# 98	书	81772024	ф	†		VOVe - Hells	ons dor un presented glackfur	
\$2.5.0H	18			+	*	2-Bodtom Biselfale Volce, 1-Methonal Mode	nos domen proserved glace jor	
16 S-10-64	ho		S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
	λ'n	02.60 12021 7118	+	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	one 4oz un-preserved glass jar	
And on	DUP	8/17/20218303	5	3	×	и и		
S-7.5-06 DUP								
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000000000000000000000000000000000000000	Croose at cooose and in the second con-		-		2		J.	

### de Guia, Cecile

**From:** Bobby Thompson <robert.thompson@cardno.com>

**Sent:** Wednesday, September 1, 2021 4:03 PM **To:** de Guia, Cecile; Laina Cole; Cam Penner-Ash

**Subject:** RE: Eurofins Calscience sample confirmation files from 570-67715-1 ExxonMobil ADC /

0314476040

**EXTERNAL EMAIL*** 

Hello Cecile,

Please use the times listed on the COC;

S-7.5-O6 (570-67715-8): 07:45

S-10-O6 (570-67715-9) 07:50

Thank you,

**Bobby** 

#### **Bobby Thompson**

SENIOR PROJECT MANAGER CARDNO

Mobile +1 206 510 5855

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108

Email <a href="mailto:robert.thompson@cardno.com">robert.thompson@cardno.com</a> Web <a href="mailto:www.cardno.com">www.cardno.com</a>

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From: de Guia, Cecile < Cecile.de Guia@eurofinset.com>

Sent: Wednesday, September 1, 2021 4:57 PM

To: Laina Cole <laina.cole@cardno.com>; Bobby Thompson <robert.thompson@cardno.com>; Cam Penner-Ash

<cameron.penner-ash@cardno.com>

Subject: FW: Eurofins Calscience sample confirmation files from 570-67715-1 ExxonMobil ADC / 0314476040

Importance: High

Good afternoon Laina,

1

Page 43 of 49

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Please confirm the sample collection times for the samples below. Report is due today and I do not find an email for these discrepancies:

- -8 sample ID S-7.5-O6 (570-67715-8) container jar collection time per label is 07:50
- -9 sample ID S-10-O6 (570-67715-9) container jar collection time per label is 07:45

#### Thank you.

Best regards, Cecile de Guia Project Manager

### How are we doing? Let us know!



Eurofins Calscience, LLC 7440 Lincoln Way Garden Grove, CA 92841 USA

Phone: +1 714 895 5494

Email: <u>Cecile.deGuia@eurofinset.com</u>
Website: <u>www.eurofinsUS.com/Calscience</u>

### Please note our adjusted schedule for Labor Day

From: Laina Cole < laina.cole@cardno.com > Sent: Thursday, August 19, 2021 2:49 PM

To: de Guia, Cecile <Cecile.deGuia@eurofinset.com>; Cam Penner-Ash <cameron.penner-ash@cardno.com>; Bobby

Thompson < robert.thompson@cardno.com >

Subject: RE: Eurofins Calscience sample confirmation files from 570-67715-1 ExxonMobil ADC / 0314476040

#### EXTERNAL EMAIL*

#### Hi Cecile,

Please note that the "DUP" sample ID should be "S-7.5-O6 DUP". Revised COC is attached.

Thank you,

#### Laina Cole

SENIOR PROGRAM COORDINATOR | BRANCH SAFETY OFFICER CARDNO

Direct +1 206 394 7225 Office +1 800 499 8950
Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108
Email |aina.cole@cardno.com | Web www.cardno.com |

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From: Cecile de Guia < Cecile.de Guia @eurofinset.com >

Sent: Thursday, August 19, 2021 2:36 PM

To: Cam Penner-Ash <<u>cameron.penner-ash@cardno.com</u>>; Laina Cole <<u>laina.cole@cardno.com</u>>; Bobby Thompson

<robert.thompson@cardno.com>

Subject: Eurofins Calscience sample confirmation files from 570-67715-1 ExxonMobil ADC / 0314476040

Hello,

Attached please find the sample confirmation files for job 570-67715-1; ExxonMobil ADC / 0314476040

Please feel free to contact me if you have any questions.

Thank you.

#### Cecile de Guia

Project Manager

**Eurofins Calscience LLC** Phone: 714-895-5494

E-mail: Cecile.deGuia@eurofinset.com

www.eurofinsus.com/env



Reference: [570-232901] Attachments: 2

>> Bank information has changed, please refer to remittance information on invoice. < <

s eurofins	7440 LINCOLN WAY		Site Name		Everett Bulk Plant	CHAIN OF CUSTODY RECORD
	Calscience Garden Grove, ca 92841-1432	41-1432	Provide WRN for	e WRN for retail or AFE for major or operis	serscenting and the second sec	ľ
	TEL: (714) 896-6494 FAX. (714) 894-7501	. (714) 894-7501	Retail Project (MRN) Major Project (AFE)	IRN) FE)		PAGE   OF 2
ExxonMobil Engr	Jennifer Sedlachek		Project Name		ExxonMobil ADC / 0314476040	
LABORATORY CLIENT  Cardno				GLOBAL ID #/ COELT LOG CODE	CODE:	P O 0314476040 Agreement# A2604415
ADDRESS. 309 South Cloverdale Street Unit A13	Street Unit A13			PROJECT CONTACT		177
CITY. Seattle WA 98108				Robert Thompson	Son	+ 0000
75 206-510-5855	N/A	robert.thompson@car	son@cardno.com	SAMPLER(S): Paul P	SAMPLER(S) Paul Prevou, John Considine	odousangeuerin Tèmb⊨
TURNAROUND TIME SAME DAY 24 HR	☐48 HR ☐72 HR	5 DAYS 310	J 10 DAYS		REQUESTE	REQUESTED ANALYSIS
SPECIAL REQUIREMENTS (ADDI)TIONAL COSTS MAY APPLY [TRWQCB REPORTING ] SARCH]	VAL COSTS MAY APPLY)	П//				
SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs	SPECIAL INSTRUCTIONS: Recuired EIM and Cardro EDDs. Perform Silica Gel Cleanup - 0.5 crams. Group results by sample, not by analy	Group results by sample. n	ot by analysis method.			AVACOUNT
Include % Moisture in report for d	relude ** Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thompson@ca Il units in mg/kg.	ole@cardno.com, robert.tho	mpson@cardno.com	GSM\ ≋s HqT ≅ HqT :		570-67715 Chain of Custody
Report to: laina.cole@cardno.cor	eport to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com	ameron.penner-ash@cardno	o.com	ı Dx I-Gx		
LAB: SAMPLE ID USE: ONLY	Field Point Name	DATE TIME	MAT- RIX		:	CONTAINER TYPE
i S-2.5-N7	3/	8/17/2021 0645	S 4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
2 S-5- N7	M.7	-		×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
3 S-7 5-N7	<i>M</i> .,				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	: un-preserved glass jar
4 S-10-N7	/N/ N/1	8/17/2021 6705	0 S	< ×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 402 un-preserved glass at	. un-preserved glass jar
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	**	12021 LAS		× > × >	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
10 S-12 5- 06			0 W	< ×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 402 un-preserved glass lat	ur-preserved glass jar
12 S-5- NS	2/4	8/17 /2021 0555			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
12	ŊŚ	2000000	S 4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
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15 S-12 5- MS	<b>%</b>	8/17/2021 0540		k × k	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass]ar	Un-preserved glass jar
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	eurofins	7440 LINCOLN WAY	WAY		Site	Name		Everett Bulk Plant	CHAIN OF CUSTODY RECORD	
*		Calscience Garden Grove, CA 92841-1432	/E, CA 92841-1432		Provi	Provide MRN for es	de MRN for retail or AFE for major projects	<b>egior projects</b>		
		TEL: (714) 895-1	TEL: (714) 896-5494 FAX. (714) 894-7601	<u> </u>	Retail Major	Retail Project (MRN) Major Project (AFE)			PAGE. 2 OF 2	8
Exxo	ExxonMobil Engr	Jennifer Sedlachek	hek		Proje	Project Name		ExxonMobil ADC / 0314476040		
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SID SI	offic WA 984	08					Robert Thompson	Robert Thompson	# H 13338/88/10000	opinionini propins
الم	206-510-585	855   N/A	l robert.	thomps	on@ca	robert.thompson@cardno.com	SAMPLER(S): FAULF	evou, Joint Constante	Temp≠ °C	olokoninina
	TURNAROUND TIME SAME DAY  24 HR		☐2 HR ☐5 DAYS	☑ 10 DAYS	DAYS			REQUES	REQUESTED ANALYSIS	and the same of th
§ ₽	SPECIAL REQUIREMENTS (AD PROPERTING	SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)	MPLES UNTIL							gramoumoum
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Include All unit	Include % Moisture in repo All units in mg/kg.	include % Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in mg/kg.	nrt to: laina.cole@cardno.com, n	obert.thon	pson@ca	rdno.com	OSM HGT-	ATT 1101 - 12-12		ON CONTRACTOR OF THE
Report	to: laina.cole@can	Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com	o.com, and cameron.penner-ash	h@cardno.	mos	NO. OF CONT	×9-⊦			150pp)(150pp)(150pp)
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ŧ	S-7 502	728	1	1015	S	4	+	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ie 4oz un-preserved glass jar	quento
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Ç	S-12.5-02	7.9		250	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	ополитую
-	-£2-5-	The state of the s	8/ /2021		do q	<b>†</b>  1	* *	PSodium Bisuitete VOAs, 1 Metiterrot VOA, one 4oz un preserved glass jar	16-402 un-preserved glass jar	secessions
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			8/ /2021		9	+	- 42.00	2.Sodium Bisuifate VOAs A Menatro VOA, one 40z un-preserved glass ja	re-for un-presented glassian.	-
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56011/88F3/FE48

570-67715 Waybill

Client: Cardno, Inc Job Number: 570-67715-1

Login Number: 67715 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

ordator: ramoo, maribor		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

## **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-67856-1

Client Project/Site: ExxonMobil ADC / 0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Suria

Authorized for release by: 9/3/2021 5:43:08 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS .....

Review your project results through

Total Access

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Detection Summary	6
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QC Association Summary	22
Lab Chronicle	25
Certification Summary	30
Method Summary	31
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## **Sample Summary**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67856-1	S-2.5-K4	Solid	08/18/21 07:05	08/20/21 09:30
570-67856-2	S-5-K4	Solid	08/18/21 07:10	08/20/21 09:30
570-67856-3	S-10-K4	Solid	08/18/21 07:15	08/20/21 09:30
570-67856-4	S-2.5-L5	Solid	08/18/21 07:45	08/20/21 09:30
570-67856-5	S-5-L5	Solid	08/18/21 07:50	08/20/21 09:30
570-67856-6	S-7.5-L5	Solid	08/18/21 07:55	08/20/21 09:30
570-67856-7	S-10-L5	Solid	08/18/21 08:00	08/20/21 09:30
570-67856-8	S-12.5-L5	Solid	08/18/21 08:05	08/20/21 09:30
570-67856-9	S-2.5-M6	Solid	08/18/21 08:30	08/20/21 09:30
570-67856-10	S-5-M6	Solid	08/18/21 08:35	08/20/21 09:30
570-67856-11	S-7.5-M6	Solid	08/18/21 08:40	08/20/21 09:30
570-67856-12	S-10-M6	Solid	08/18/21 08:45	08/20/21 09:30
570-67856-13	S-12.5-M6	Solid	08/18/21 08:50	08/20/21 09:30
570-67856-14	S-2.5-L7	Solid	08/18/21 09:05	08/20/21 09:30
570-67856-15	S-5-L7	Solid	08/18/21 09:10	08/20/21 09:30
570-67856-16	S-7.5-L7	Solid	08/18/21 09:15	08/20/21 09:30
570-67856-17	S-10-L7	Solid	08/18/21 09:20	08/20/21 09:30
570-67856-18	S-12.5-L7	Solid	08/18/21 09:25	08/20/21 09:30
570-67856-19	S-15-K4	Solid	08/18/21 07:20	08/20/21 09:30

#### **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

#### **Qualifiers**

**GC VOA** 

Qualifier Qualifier Description

S1- Surrogate recovery exceeds control limits, low biased.

**GC Semi VOA** 

Qualifier Qualifier Description

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

E Result exceeded calibration range.

S1+ Surrogate recovery exceeds control limits, high biased.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
POS Prestical Quantifation I

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

5

6

0

10

12

#### Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67856-1

Job ID: 570-67856-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-67856-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/20/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3° C.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-10-K4 (570-67856-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 175894. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 175904. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: S-2.5-K4 (570-67856-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Cardno, Inc
Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-K4

Detection Summary

Job ID: 570-67856-1

Lab Sample ID: 570-67856-1

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	570	97	mg/Kg	500	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	5800	54	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	140	5.4	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-K4 Lab Sample ID: 570-67856-2

Analyte	Result Qualifier	RL	Unit	Dil Fac I	Method	Prep Type
TPH as Gasoline (C4-C13)	0.99	0.21	mg/Kg	<u> </u>	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	9.1	5.9	mg/Kg	1 ∃	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-K4 Lab Sample ID: 570-67856-3

Analyte	Result Qualifier	RL	Unit	Dil Fac I	) Method	Prep Type
TPH as Gasoline (C4-C13)	0.67	0.50	mg/Kg	<u> </u>	NWTPH-Gx	Total/NA
TPH as Diesel Range	9.5	6.7	mg/Kg	1 ₃	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	14	6.7	mg/Kg	1 ⊰	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-L5 Lab Sample ID: 570-67856-4

Analyte	Result Qualifier	RL	Unit	Dil Fac [	Method	Prep Type
TPH as Gasoline (C4-C13)	1300	96	mg/Kg	500 🕏	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	500	5.5	mg/Kg	1 ⊀	NWTPH-Dx	Silica Gel Cleanup
TPH as Diesel Range - DL	8700	55	mg/Kg	10 ≾	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-L5 Lab Sample ID: 570-67856-5

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	840	210	mg/Kg	500	NWTPH-Gx	Total/NA
TPH as Diesel Range	4600	150	mg/Kg	20	⇔ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	280	150	mg/Kg	20	⇔ NWTPH-Dx	Cleanup Silica Gel Cleanup

## Client Sample ID: S-7.5-L5 Lab Sample ID: 570-67856-6

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.90	0.33	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range - RA	160	7.5	mg/Kg	1 ≎	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - RA	160	7.5	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-L5 Lab Sample ID: 570-67856-7

Analyte	Result Qualifier	RL	Unit	Dil Fac [	) Method	Prep Type
TPH as Gasoline (C4-C13)	89	16	mg/Kg	50	NWTPH-Gx	Total/NA
TPH as Diesel Range - RA	1700	7.1	mg/Kg	1 ₹	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - RA	600	7.1	mg/Kg	1 ⊀	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

9/3/2021

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5	-L5				Lab Sa	mple ID: 5	70-67856-8
Analyte	Result Q	ualifier	RL	Unit	Dil Fac D		Prep Type
TPH as Motor Oil Range	23		20	mg/Kg	1 🌣	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-M	<b>16</b>				Lab Sa	mple ID: 5	70-67856-9
Analyte	Result Qu	ualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1500		110	mg/Kg	500 🜣	NWTPH-Gx	Total/NA
TPH as Diesel Range	10000		110	mg/Kg	20 ☼	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1100		110	mg/Kg	20 ☼	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-M6	<b>)</b>				Lab San	nple ID: 57	0-67856-10
Analyte	Result Q	ualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1200		130	mg/Kg	500 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range	4400		60	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	620		60	mg/Kg	10 ⇔	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-N	<b>16</b>				Lab San	nple ID: 57	0-67856-11
Analyte	Result Q	ualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	67		9.1	mg/Kg	20 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range	60		8.2	mg/Kg	1 ❖	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	240		8.2	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-M	16				Lab San	nple ID: 57	0-67856-12
Analyte	Result Q	ualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	8.5		0.44	mg/Kg	<u></u> 1 ☆	NWTPH-Gx	Total/NA
TPH as Diesel Range	690		8.9	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	930		8.9	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5	-M6				Lab San	nple ID: 57	0-67856-13
Analyte	Result Q	ualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Diesel Range	120		19	mg/Kg		NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	280		19	mg/Kg	1 🌣	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-L	.7				Lab San	nple ID: 57	0-67856-14
Analyte	Result Q	ualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	410		54	mg/Kg	250 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	4700		55	mg/Kg	10 ❖	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DI	2000		55	ma/Ka	10 🔅	NIMTDH DV	Silion Col

This Detection Summary does not include radiochemical test results.

2000

TPH as Motor Oil Range - DL

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55

mg/Kg

10 ☼ NWTPH-Dx

Silica Gel Cleanup

## **Detection Summary**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-L7	,			Lab Sar	mple ID: 57	0-67856-1
Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	820	180	mg/Kg	500 🕏	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	310	7.6	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Diesel Range - DL	45000	760	mg/Kg	100	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-I	L7			Lab Sar	mple ID: 57	0-67856-1
Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	290	28	mg/Kg	50	NWTPH-Gx	Total/NA
TPH as Diesel Range	11000	99	mg/Kg	10 兌	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	5100	99	mg/Kg	10 ≴	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-L	.7			Lab Sar	mple ID: 57	0-67856-1
Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type

Analyte	Result Qualifier	KL	Unit	DII Fac	D Metnoa	Prep Type
TPH as Gasoline (C4-C13)	410	110	mg/Kg	250	NWTPH-Gx	Total/NA
TPH as Diesel Range	1400	18	mg/Kg	2	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	800	18	mg/Kg	2	∷ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5-L	Lab Sa	mple ID: 57	0-67856-18			

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	73	28	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-15-k	<b>(4</b>			Lab Sample ID:	70-67856-19
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)		0.81	mg/Kg	1   □ NWTPH-Gx	Total/NA
TPH as Diesel Range	65	12	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	56	12	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-K4

Lab Sample ID: 570-67856-1

Date Collected: 08/18/21 07:05 Matrix: Solid
Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (G0	C)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	570		97	mg/Kg	₩	08/24/21 16:26	09/01/21 03:21	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150			08/24/21 16:26	09/01/21 03:21	500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5800		54	mg/Kg	<u></u>	08/25/21 18:16	09/03/21 13:08	10
TPH as Motor Oil Range	140		5.4	mg/Kg	₩	08/25/21 18:16	09/02/21 09:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	143		50 - 150			08/25/21 18:16	09/02/21 09:12	1
n-Octacosane (Surr)	151	S1+	50 - 150			08/25/21 18:16	09/03/21 13:08	10

Client Sample ID: S-5-K4

Date Collected: 08/18/21 07:10

Lab Sample ID: 570-67856-2

Matrix: Solid

Date Received: 08/20/21 09:30

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - North	nwest - Volatile	e Petroleui	m Products (G	iC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.99		0.21	mg/Kg	<del>*</del>	08/24/21 16:26	09/01/21 09:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131		50 - 150			08/24/21 16:26	09/01/21 09:18	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.9	mg/Kg	<u></u>	08/25/21 18:16	09/02/21 09:34	1
TPH as Motor Oil Range	9.1		5.9	mg/Kg	₩	08/25/21 18:16	09/02/21 09:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)			50 - 150			08/25/21 18:16	09/02/21 09:34	1

Client Sample ID: S-10-K4

Date Collected: 08/18/21 07:15

Lab Sample ID: 570-67856-3

Matrix: Solid

Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.67		0.50	mg/Kg	<del>-</del>	08/24/21 16:26	09/01/21 03:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	6	S1-	50 - 150			08/24/21 16:26	09/01/21 03:08	

Method: NWTPH-Dx - North	thwest - Semi-Vo	latile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	9.5		6.7	mg/Kg	— <u></u>	08/25/21 18:16	09/02/21 09:56	1
TPH as Motor Oil Range	14		6.7	mg/Kg	₩	08/25/21 18:16	09/02/21 09:56	1
Surrogate	%Recovery (	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			08/25/21 18:16	09/02/21 09:56	1

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0

9

11

13

14

Job ID: 570-67856-1

Dil Fac

Dil Fac

Analyzed

Analyzed

Prepared

Project/Site: ExxonMobil ADC / 0314476040

Client: Cardno, Inc

Lab Sample ID: 570-67856-4 Client Sample ID: S-2.5-L5

Date Collected: 08/18/21 07:45 **Matrix: Solid** Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1300		96	mg/Kg	— <u></u>	08/24/21 16:26	09/01/21 03:45	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

50 - 150 4-Bromofluorobenzene (Surr) 52 08/24/21 16:26 09/01/21 03:45

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit Prepared

TPH as Motor Oil Range	500	5.5	mg/Kg	□ 08/25/21 18:16	09/02/21 11:01	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121	50 - 150		08/25/21 18:16	09/02/21 11:01	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL Result Qualifier Unit

TPH as Diesel Range	8700	55	mg/Kg	08/25/21 18:16	09/02/21 19:56	10
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	140	50 - 150		08/25/21 18:16	09/02/21 19:56	10

RL

Client Sample ID: S-5-L5 Lab Sample ID: 570-67856-5 Date Collected: 08/18/21 07:50 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Analyte

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

			,				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	840	210	mg/Kg	₩	08/24/21 16:26	09/01/21 04:09	500
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81	50 - 150			08/24/21 16:26	09/01/21 04:09	500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4600		150	mg/Kg	☼	08/25/21 18:16	09/02/21 11:23	20
TPH as Motor Oil Range	280		150	mg/Kg	₽	08/25/21 18:16	09/02/21 11:23	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150			08/25/21 18:16	09/02/21 11:23	20

Client Sample ID: S-7.5-L5 Lab Sample ID: 570-67856-6 Date Collected: 08/18/21 07:55 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - No	rthwest - Volatile	e Petroleui	m Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.90		0.33	mg/Kg	≎	08/24/21 16:26	09/01/21 03:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150			08/24/21 16:26	09/01/21 03:32	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - RA									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	TPH as Diesel Range	160		7.5	mg/Kg	<del>*</del>	08/25/21 18:16	09/02/21 20:18	1
	TPH as Motor Oil Range	160		7.5	mg/Kg	₩	08/25/21 18:16	09/02/21 20:18	1

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Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-L5

Lab Sample ID: 570-67856-6 Date Collected: 08/18/21 07:55 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 140 50 - 150 <u>08/25/21 18:16</u> <u>09/02/21 20:18</u>

Client Sample ID: S-10-L5 Lab Sample ID: 570-67856-7 **Matrix: Solid** 

Date Collected: 08/18/21 08:00 Date Received: 08/20/21 09:30

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	89		16	mg/Kg	₩	08/24/21 16:26	09/01/21 09:39	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55		50 - 150			08/24/21 16:26	09/01/21 09:39	50

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Po	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup - RA	L	
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1700	7.1	mg/Kg	☼	08/25/21 18:16	09/02/21 20:41	1
TPH as Motor Oil Range	600	7.1	mg/Kg	☼	08/25/21 18:16	09/02/21 20:41	1
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits			Prepared 08/25/21 18:16	Analyzed 09/02/21 20:41	Dil Fac

Lab Sample ID: 570-67856-8 Client Sample ID: S-12.5-L5

Date Collected: 08/18/21 08:05 Date Received: 08/20/21 09:30

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		1.3	mg/Kg	<del>*</del>	08/24/21 16:26	09/01/21 03:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 150			08/24/21 16:26	09/01/21 03:55	1

Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	20	mg/Kg	<del>-</del>	08/25/21 18:16	09/02/21 12:28	1
TPH as Motor Oil Range	23	20	mg/Kg	☼	08/25/21 18:16	09/02/21 12:28	1
Surrogate	%Recovery Qual	lifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	<u></u>				08/25/21 18:16	09/02/21 12:28	1

Client Sample ID: S-2.5-M6 Lab Sample ID: 570-67856-9 Date Collected: 08/18/21 08:30 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - North	west - Volatile	e Petroleui	n Products (GC	3)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1500		110	mg/Kg	<u></u>	08/24/21 16:26	09/01/21 04:57	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	50		50 - 150			08/24/21 16:26	09/01/21 04:57	500

**Matrix: Solid** 

Client Sample ID: S-2.5-M6

Client: Cardno, Inc

Lab Sample ID: 570-67856-9

Date Collected: 08/18/21 08:30 **Matrix: Solid** Date Received: 08/20/21 09:30

Method: NWTPH-Dx - North	nwest - Semi-Volatile Pe Result Qualifier	etroleum Produc RL	ts (GC) - Silica Unit	Ger (	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	10000	110	mg/Kg	— <u>-</u>		09/02/21 12:49	20
TPH as Motor Oil Range	1100	110	mg/Kg	₽	08/25/21 18:16	09/02/21 12:49	20
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112	50 - 150			08/25/21 18:16	09/02/21 12:49	20

Lab Sample ID: 570-67856-10 **Client Sample ID: S-5-M6** Date Collected: 08/18/21 08:35 Matrix: Solid

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northy	vest - Volatile	Petroleur	n Products	(GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1200		130	mg/Kg	<del>-</del>	08/24/21 16:26	09/01/21 05:22	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61		50 - 150			08/24/21 16:26	09/01/21 05:22	500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4400		60	mg/Kg	<u></u>	08/25/21 18:16	09/02/21 13:11	10
TPH as Motor Oil Range	620		60	mg/Kg	₩	08/25/21 18:16	09/02/21 13:11	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	126		50 - 150			08/25/21 18:16	09/02/21 13:11	10

**Client Sample ID: S-7.5-M6** Lab Sample ID: 570-67856-11 Date Collected: 08/18/21 08:40 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - North	west - Volatile	Petroleu	m Products (GC	<b>&gt;</b> )				
Analyte TPH as Gasoline (C4-C13)	Result	Qualifier		Unit mg/Kg	- <b>D</b>	Prepared 08/24/21 16:26	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits	mg/Kg	*	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93	Quaimer	50 - 150				09/01/21 10:27	20

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	60		8.2	mg/Kg	<del>*</del>	08/25/21 18:16	09/02/21 13:32	1
TPH as Motor Oil Range	240		8.2	mg/Kg	☼	08/25/21 18:16	09/02/21 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121		50 - 150			08/25/21 18:16	09/02/21 13:32	1

Lab Sample ID: 570-67856-12 Client Sample ID: S-10-M6 Date Collected: 08/18/21 08:45 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwe	st - Volatile Petroleun	n Products (GC)	)				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	8.5	0.44	mg/Kg	<del>-</del>	08/24/21 16:26	09/01/21 04:43	1

**Matrix: Solid** 

08:07

Dil Fac

Client Sample ID: S-10-M6

Client: Cardno, Inc

Date Collected: 08/18/21 08:45 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67856-12

Lab Sample ID: 570-67856-13

**Matrix: Solid** 

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89	50 - 150	08/24/21 16:26	09/01/21 04:43	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	690		8.9	mg/Kg	<u></u>	08/25/21 18:16	09/02/21 13:54	1
TPH as Motor Oil Range	930		8.9	mg/Kg	₽	08/25/21 18:16	09/02/21 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	129		50 - 150			08/25/21 18:16	09/02/21 13:54	1

Client Sample ID: S-12.5-M6

Date Collected: 08/18/21 08:50

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwe	est - Volatile Petroleum	Products (GC	<b>;</b> )			
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed
TPH as Gasoline (C4-C13)	ND —	1.2	mg/Kg	#	08/24/21 16:26	09/01/21 08:0

%Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 4-Bromofluorobenzene (Surr) 64 50 - 150 08/24/21 16:26 09/01/21 08:07

Method: NWTPH-Dx - North	hwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	120	19	mg/Kg	<del>*</del>	08/25/21 18:16	09/02/21 14:15	1
TPH as Motor Oil Range	280	19	mg/Kg	₩	08/25/21 18:16	09/02/21 14:15	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114	50 - 150			08/25/21 18:16	09/02/21 14:15	1

Client Sample ID: S-2.5-L7 Lab Sample ID: 570-67856-14 Date Collected: 08/18/21 09:05 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northy	west - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	410		54	mg/Kg	☼	08/24/21 16:26	09/01/21 05:46	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51		50 - 150			08/24/21 16:26	09/01/21 05:46	250

Method: NWTPH-Dx - Nort	:hwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel 0	Cleanup - DL		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4700	55	mg/Kg	☆	08/25/21 18:16	09/02/21 21:03	10
TPH as Motor Oil Range	2000	55	mg/Kg	≎	08/25/21 18:16	09/02/21 21:03	10
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits 50 - 150			Prepared 08/25/21 18:16	Analyzed 09/02/21 21:03	Dil Fac

Job ID: 570-67856-1

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Project/Site: ExxonMobil ADC / 0314476040

Client: Cardno, Inc

Lab Sample ID: 570-67856-15 **Client Sample ID: S-5-L7** 

Date Collected: 08/18/21 09:10 **Matrix: Solid** Date Received: 08/20/21 09:30

Method: NWTPH-Gx - No	rthwest - Volatile Petroleum P	roducts (GC)
Analyte	Result Qualifier	RL

Allalyte	Result	Qualifier	114	Oint	_	rrepared	Allalyzea	Diriac	
TPH as Gasoline (C4-C13)	820		180	mg/Kg	₽	08/24/21 16:26	09/01/21 06:10	500	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	54		50 - 150			08/24/21 16:26	09/01/21 06:10	500	

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Method: NWTPH-Dx - Nor	thwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	310		7.6	mg/Kg	☆	08/25/21 18:16	09/02/21 14:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150			08/25/21 18:16	09/02/21 14:59	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL												
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
TPH as Diesel Range	45000		760	mg/Kg	<del>*</del>	08/25/21 18:16	09/03/21 14:15	100				
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac				
n-Octacosane (Surr)	145		50 - 150			08/25/21 18:16	09/03/21 14:15	100				

Client Sample ID: S-7.5-L7 Lab Sample ID: 570-67856-16 Date Collected: 08/18/21 09:15 **Matrix: Solid** 

Date Received: 08/20/21 09:30

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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	290	28	mg/Kg	<del>*</del>	08/24/21 16:26	09/01/21 10:03	50
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115	50 - 150			08/24/21 16:26	09/01/21 10:03	50

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	11000		99	mg/Kg	<u></u>	08/25/21 18:18	09/02/21 15:21	10
TPH as Motor Oil Range	5100		99	mg/Kg	₽	08/25/21 18:18	09/02/21 15:21	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	152	S1+	50 - 150			08/25/21 18:18	09/02/21 15:21	10

Client Sample ID: S-10-L7 Lab Sample ID: 570-67856-17 Date Collected: 08/18/21 09:20 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)												
Analyte	Result Qualifier	r RL	Unit	D	Prepared	Analyzed	Dil Fac					
TPH as Gasoline (C4-C13)	410	110	mg/Kg	<del>-</del>	08/24/21 16:26	09/01/21 06:59	250					
Surrogate	%Recovery Qualifier	r Limits			Prepared	Analyzed	Dil Fac					
4-Bromofluorobenzene (Surr)	<u> </u>	50 - 150			08/24/21 16:26	09/01/21 06:59	250					

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup											
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
	TPH as Diesel Range	1400		18	mg/Kg	<del>*</del>	08/25/21 18:18	09/02/21 15:42	2		
	TPH as Motor Oil Range	800		18	mg/Kg	≎	08/25/21 18:18	09/02/21 15:42	2		

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Dil Fac

#### Client Sample Results

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-L7 Lab Sample ID: 570-67856-17

Date Collected: 08/18/21 09:20 Date Received: 08/20/21 09:30

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed n-Octacosane (Surr) 131 50 - 150 08/25/21 18:18 09/02/21 15:42

Client Sample ID: S-12.5-L7 Lab Sample ID: 570-67856-18 Date Collected: 08/18/21 09:25

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac 08/24/21 16:26 09/01/21 08:31 TPH as Gasoline (C4-C13) ND 2.0 mg/Kg %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 50 - 150 08/24/21 16:26 09/01/21 08:31

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range ND 28 mg/Kg 08/25/21 18:18 09/02/21 16:04 28 08/25/21 18:18 09/02/21 16:04 **TPH as Motor Oil Range 73** mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 66 50 - 150 08/25/21 18:18 09/02/21 16:04

Client Sample ID: S-15-K4 Lab Sample ID: 570-67856-19 **Matrix: Solid** 

Date Collected: 08/18/21 07:20

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 0.81 mg/Kg 08/24/21 16:26 09/01/21 08:54 TPH as Gasoline (C4-C13) 22 Qualifier Surrogate %Recovery I imits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 90 50 - 150 08/24/21 16:26 09/01/21 08:54

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Diesel Range** 65 12 mg/Kg 08/25/21 18:18 09/02/21 16:25 12 08/25/21 18:18 09/02/21 16:25 **TPH as Motor Oil Range 56** mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/25/21 18:18 09/02/21 16:25 119

Matrix: Solid

**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Solid Prep Type: Total/NA** 

		BFB1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(50-150)	
570-67856-1	S-2.5-K4		
570-67856-2	S-5-K4	131	
570-67856-3	S-10-K4	6 S1-	
570-67856-4	S-2.5-L5	52	
570-67856-5	S-5-L5	81	
570-67856-6	S-7.5-L5	96	
570-67856-7	S-10-L5	55	
570-67856-8	S-12.5-L5	54	
570-67856-9	S-2.5-M6	50	
570-67856-10	S-5-M6	61	
570-67856-11	S-7.5-M6	93	
570-67856-12	S-10-M6	89	
570-67856-13	S-12.5-M6	64	
570-67856-14	S-2.5-L7	51	
570-67856-15	S-5-L7	54	
570-67856-16	S-7.5-L7	115	
570-67856-17	S-10-L7	51	
570-67856-18	S-12.5-L7	70	
570-67856-19	S-15-K4	90	
LCS 570-175894/5	Lab Control Sample	78	
LCS 570-175904/61	Lab Control Sample	97	
LCSD 570-175894/6	Lab Control Sample Dup	79	
LCSD 570-175904/62	Lab Control Sample Dup	101	
MB 570-175894/7	Method Blank	68	
MB 570-175894/8	Method Blank	63	
MB 570-175904/54	Method Blank	80	

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Matrix: Solid** Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-67856-1	S-2.5-K4	143	
570-67856-1	S-2.5-K4	151 S1+	
570-67856-2	S-5-K4	111	
570-67856-3	S-10-K4	107	
570-67856-4	S-2.5-L5	121	
570-67856-4 - DL	S-2.5-L5	140	
570-67856-5	S-5-L5	98	
570-67856-6 - RA	S-7.5-L5	140	
570-67856-7 - RA	S-10-L5	138	
570-67856-8	S-12.5-L5	56	
570-67856-9	S-2.5-M6	112	
570-67856-9 MS	S-2.5-M6	233 S1+	
570-67856-9 MS	S-2.5-M6	119	
570-67856-9 MSD	S-2.5-M6	225 S1+	

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## **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Prep Type: Silica Gel Cleanup **Matrix: Solid** 

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-67856-9 MSD	S-2.5-M6	117	
570-67856-10	S-5-M6	126	
570-67856-11	S-7.5-M6	121	
570-67856-12	S-10-M6	129	
570-67856-13	S-12.5-M6	114	
570-67856-14 - DL	S-2.5-L7	143	
570-67856-15	S-5-L7	124	
570-67856-15 - DL	S-5-L7	145	
570-67856-16	S-7.5-L7	152 S1+	
570-67856-17	S-10-L7	131	
570-67856-18	S-12.5-L7	66	
570-67856-19	S-15-K4	119	
LCS 570-174383/2-A	Lab Control Sample	122	
LCS 570-174383/6-A	Lab Control Sample	115	
LCSD 570-174383/3-A	Lab Control Sample Dup	114	
LCSD 570-174383/7-A	Lab Control Sample Dup	118	
MB 570-174383/1-A	Method Blank	106	

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Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-175894/7 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Client: Cardno, Inc

Analysis Batch: 175894

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 09/01/21 02:32 TPH as Gasoline (C4-C13) ND 0.25 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 68 50 - 150 09/01/21 02:32

Client Sample ID: Method Blank Lab Sample ID: MB 570-175894/8 Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 175894

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 09/01/21 02:57 TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 20

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 63 50 - 150 09/01/21 02:57

**Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 570-175894/5 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 175894** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.12 1.801 mg/Kg 85 77 - 128

LCS LCS

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 78 50 - 150

Lab Sample ID: LCSD 570-175894/6

**Matrix: Solid** 

**Analysis Batch: 175894** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Gasoline (C4-C13) 2.10 1.828 87 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150 79

Lab Sample ID: MB 570-175904/54

Client Sample ID: Method Blank **Matrix: Solid Prep Type: Total/NA Analysis Batch: 175904** 

MB MB Result Qualifier RL D Analyte Unit Prepared Analyzed Dil Fac 0.25 TPH as Gasoline (C4-C13) ND mg/Kg 08/31/21 22:40

MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 80 50 - 150 08/31/21 22:40 4-Bromofluorobenzene (Surr)

9/3/2021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-175904/61 **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

Analysis Batch: 175904

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.12 2.028 mg/Kg 96 77 - 128

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-175904/62 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 175904

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.10 2.118 mg/Kg 101 77 - 128 4

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 101

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-174383/1-A

**Matrix: Solid** 

**Analysis Batch: 176144** 

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed D Dil Fac TPH as Diesel Range 5.0 mg/Kg 08/25/21 18:16 09/01/21 19:21 ND TPH as Motor Oil Range ND 5.0 mg/Kg 08/25/21 18:16 09/01/21 19:21

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 106 50 - 150 08/25/21 18:16 09/01/21 19:21

Lab Sample ID: LCS 570-174383/2-A

**Matrix: Solid** 

**Analysis Batch: 176144** 

**Prep Batch: 174383** Spike LCS LCS %Rec. Added Result Qualifier Unit Limits %Rec TPH as Diesel (C10-C28) 400 450.7 113 76 - 126 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 122 50 - 150

Lab Sample ID: LCS 570-174383/6-A

Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 176144 Prep Batch: 174383** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 400 456.2 71 - 139 mg/Kg 114

LCS LCS

%Recovery Qualifier Limits Surrogate n-Octacosane (Surr) 50 - 150 115

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Prep Type: Total/NA

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

Prep Type: Silica Gel Cleanup

Prep Type: Silica Gel Cleanup

**Prep Batch: 174383** 

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Surrogate

n-Octacosane (Surr)

n-Octacosane (Surr)

n-Octacosane (Surr)

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Limits

50 - 150

50 - 150

50 - 150

%Recovery Qualifier

114

118

233 S1+

Lab Sample ID: LCSD 570-174383/3-A Matrix: Solid Analysis Batch: 176144			(	Client Sa			b Control Samp pe: Silica Gel C Prep Batch: 1		anup
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	400	439.8		mg/Kg		110	76 - 126	2	20
LCSD LCSD									

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 176144			(	Client Sa	•		Control : be: Silica : Prep Ba	Gel Čle	anup	
		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)		400	443.1		mg/Kg		111	71 - 139	3	20
	LCSD LCSD									
Surrogate	%Recovery Qualifier	Limits								

Lab Sample ID: 570-6785 Matrix: Solid Analysis Batch: 176144	6-9 MS						Client Sample Prep Type: Silica Prep B			leanup
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	11000		451	22070	E 4	mg/Kg	<del>-</del>	2545	37 - 175	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

Lab Sample ID: 570-6785 Matrix: Solid Analysis Batch: 176144	6-9 MS						P		t Sample ID: S-2.5-M6 be: Silica Gel Cleanup Prep Batch: 174383
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
TPH as Motor Oil (C17-C44)	4000		456	4685	E 4	mg/Kg	<u></u>	153	71 - 174
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						

n-Octacosane (Surr)	119	50 - 150		
Lab Sample ID: 570-67856-	-9 MSD			Client Sample ID: S-2.5-M6
Matrix: Solid				Prep Type: Silica Gel Cleanup
Analysis Batch: 176144				<b>Prep Batch: 174383</b>
	Sample Sample	Snika	MSD MSD	%Rec RPD

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	11000		457	21440	E 4	mg/Kg	₩	2376	37 - 175	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	225	S1+	50 - 150

9/3/2021

## **QC Sample Results**

Client: Cardno, Inc Job ID: 570-67856-1

MSD MSD

5178 E 4

Result Qualifier Unit

Project/Site: ExxonMobil ADC / 0314476040

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-67856-9 MSD

**Matrix: Solid** 

Analyte

Surrogate

n-Octacosane (Surr)

**Analysis Batch: 176144** 

TPH as Motor Oil (C17-C44)

Client Sample ID: S-2.5-M6 Prep Type: Silica Gel Cleanup

71 - 174

D

✡

259

mg/Kg

	Prep Ba	atch: 17	4383
	%Rec.		RPD
%Rec	Limits	RPD	Limit

10

MSD MSD

4000

Sample Sample

Result Qualifier

%Recovery Qualifier 117

Limits 50 - 150

Spike

Added

459

## **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

#### **GC VOA**

#### **Prep Batch: 174021**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67856-2	S-5-K4	Total/NA	Solid	5035	
570-67856-3	S-10-K4	Total/NA	Solid	5035	
570-67856-6	S-7.5-L5	Total/NA	Solid	5035	
570-67856-8	S-12.5-L5	Total/NA	Solid	5035	
570-67856-12	S-10-M6	Total/NA	Solid	5035	
570-67856-13	S-12.5-M6	Total/NA	Solid	5035	
570-67856-18	S-12.5-L7	Total/NA	Solid	5035	
570-67856-19	S-15-K4	Total/NA	Solid	5035	

#### **Prep Batch: 174022**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67856-1	S-2.5-K4	Total/NA	Solid	5035	<del></del>
570-67856-4	S-2.5-L5	Total/NA	Solid	5035	
570-67856-5	S-5-L5	Total/NA	Solid	5035	
570-67856-7	S-10-L5	Total/NA	Solid	5035	
570-67856-9	S-2.5-M6	Total/NA	Solid	5035	
570-67856-10	S-5-M6	Total/NA	Solid	5035	
570-67856-11	S-7.5-M6	Total/NA	Solid	5035	
570-67856-14	S-2.5-L7	Total/NA	Solid	5035	
570-67856-15	S-5-L7	Total/NA	Solid	5035	
570-67856-16	S-7.5-L7	Total/NA	Solid	5035	
570-67856-17	S-10-L7	Total/NA	Solid	5035	

#### **Analysis Batch: 175894**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67856-1	S-2.5-K4	Total/NA	Solid	NWTPH-Gx	174022
570-67856-4	S-2.5-L5	Total/NA	Solid	NWTPH-Gx	174022
570-67856-5	S-5-L5	Total/NA	Solid	NWTPH-Gx	174022
570-67856-7	S-10-L5	Total/NA	Solid	NWTPH-Gx	174022
570-67856-9	S-2.5-M6	Total/NA	Solid	NWTPH-Gx	174022
570-67856-10	S-5-M6	Total/NA	Solid	NWTPH-Gx	174022
570-67856-11	S-7.5-M6	Total/NA	Solid	NWTPH-Gx	174022
570-67856-14	S-2.5-L7	Total/NA	Solid	NWTPH-Gx	174022
570-67856-15	S-5-L7	Total/NA	Solid	NWTPH-Gx	174022
570-67856-16	S-7.5-L7	Total/NA	Solid	NWTPH-Gx	174022
570-67856-17	S-10-L7	Total/NA	Solid	NWTPH-Gx	174022
MB 570-175894/7	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-175894/8	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175894/5	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175894/6	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### Analysis Batch: 175904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67856-2	S-5-K4	Total/NA	Solid	NWTPH-Gx	174021
570-67856-3	S-10-K4	Total/NA	Solid	NWTPH-Gx	174021
570-67856-6	S-7.5-L5	Total/NA	Solid	NWTPH-Gx	174021
570-67856-8	S-12.5-L5	Total/NA	Solid	NWTPH-Gx	174021
570-67856-12	S-10-M6	Total/NA	Solid	NWTPH-Gx	174021
570-67856-13	S-12.5-M6	Total/NA	Solid	NWTPH-Gx	174021
570-67856-18	S-12.5-L7	Total/NA	Solid	NWTPH-Gx	174021
570-67856-19	S-15-K4	Total/NA	Solid	NWTPH-Gx	174021

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## **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

### **GC VOA (Continued)**

#### **Analysis Batch: 175904 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-175904/54	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175904/61	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175904/62	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **GC Semi VOA**

#### **Prep Batch: 174383**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67856-1	S-2.5-K4	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-2	S-5-K4	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-3	S-10-K4	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-4	S-2.5-L5	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-4 - DL	S-2.5-L5	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-5	S-5-L5	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-6 - RA	S-7.5-L5	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-7 - RA	S-10-L5	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-8	S-12.5-L5	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-9	S-2.5-M6	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-10	S-5-M6	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-11	S-7.5-M6	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-12	S-10-M6	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-13	S-12.5-M6	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-14 - DL	S-2.5-L7	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-15	S-5-L7	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-15 - DL	S-5-L7	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-16	S-7.5-L7	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-17	S-10-L7	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-18	S-12.5-L7	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-19	S-15-K4	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-174383/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174383/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174383/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174383/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174383/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-9 MS	S-2.5-M6	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-9 MS	S-2.5-M6	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-9 MSD	S-2.5-M6	Silica Gel Cleanup	Solid	3550C SGC	
570-67856-9 MSD	S-2.5-M6	Silica Gel Cleanup	Solid	3550C SGC	
_		•			

#### **Analysis Batch: 176144**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67856-1	S-2.5-K4	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-2	S-5-K4	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-3	S-10-K4	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-4	S-2.5-L5	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-4 - DL	S-2.5-L5	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-5	S-5-L5	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-6 - RA	S-7.5-L5	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-7 - RA	S-10-L5	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-8	S-12.5-L5	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-9	S-2.5-M6	Silica Gel Cleanup	Solid	NWTPH-Dx	174383

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## **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

## GC Semi VOA (Continued)

#### **Analysis Batch: 176144 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67856-10	S-5-M6	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-11	S-7.5-M6	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-12	S-10-M6	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-13	S-12.5-M6	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-14 - DL	S-2.5-L7	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-15	S-5-L7	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-16	S-7.5-L7	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-17	S-10-L7	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-18	S-12.5-L7	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-19	S-15-K4	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
MB 570-174383/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
LCS 570-174383/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
LCS 570-174383/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
LCSD 570-174383/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
LCSD 570-174383/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-9 MS	S-2.5-M6	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-9 MS	S-2.5-M6	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-9 MSD	S-2.5-M6	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-9 MSD	S-2.5-M6	Silica Gel Cleanup	Solid	NWTPH-Dx	174383

#### **Analysis Batch: 176550**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67856-1	S-2.5-K4	Silica Gel Cleanup	Solid	NWTPH-Dx	174383
570-67856-15 - DL	S-5-L7	Silica Gel Cleanup	Solid	NWTPH-Dx	174383

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#### **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-K4

Date Collected: 08/18/21 07:05 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67856-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.168 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175894	09/01/21 03:21	A9VE	ECL 2
	Instrumer	nt ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.22 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 09:12	N1A	ECL 1
	Instrumer	nt ID: GC48								
Silica Gel Cleanup	Prep	3550C SGC			10.22 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			176550	09/03/21 13:08	N1A	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-67856-2 Client Sample ID: S-5-K4 Date Collected: 08/18/21 07:10 **Matrix: Solid** 

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.029 g	5 g	174021	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	175904	09/01/21 09:18	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 09:34	N1A	ECL 1
	Instrumer	t ID: GC48								

Lab Sample ID: 570-67856-3 Client Sample ID: S-10-K4 Date Collected: 08/18/21 07:15 **Matrix: Solid** 

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.414 g	5 g	174021	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175904	09/01/21 03:08	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 09:56	N1A	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: S-2.5-L5** Lab Sample ID: 570-67856-4 Date Collected: 08/18/21 07:45 **Matrix: Solid** 

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.41 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175894	09/01/21 03:45	A9VE	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.38 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 11:01	N1A	ECL 1
	Instrumen	t ID: GC48								

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#### **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-L5

Date Collected: 08/18/21 07:45 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67856-4

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550C SGC	DL		10.38 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			176144	09/02/21 19:56	N1A	ECL 1
	Instrumen	t ID: GC48								

Lab Sample ID: 570-67856-5 **Client Sample ID: S-5-L5** Date Collected: 08/18/21 07:50 **Matrix: Solid** 

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.568 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175894	09/01/21 04:09	A9VE	ECL 2
	Instrumer	it ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		20			176144	09/02/21 11:23	N1A	ECL 1
	Instrumer	t ID: GC48								

**Client Sample ID: S-7.5-L5** Lab Sample ID: 570-67856-6

Date Collected: 08/18/21 07:55

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.96 g	5 g	174021	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175904	09/01/21 03:32	P1R	ECL 2
	Instrumer	it ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC	RA		10.35 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	RA	1			176144	09/02/21 20:18	N1A	ECL 1
	Instrumer	t ID: GC48								

Lab Sample ID: 570-67856-7 Client Sample ID: S-10-L5 **Matrix: Solid** 

Date Collected: 08/18/21 08:00 Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.61 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	175894	09/01/21 09:39	A9VE	ECL 2
	Instrumer	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC	RA		10.01 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	RA	1			176144	09/02/21 20:41	N1A	ECL 1
	Instrumer	t ID: GC48								

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**Matrix: Solid** 

#### **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-L5

Date Collected: 08/18/21 08:05 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67856-8

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.797 g	5 g	174021	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	175904	09/01/21 03:55	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 12:28	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-2.5-M6 Lab Sample ID: 570-67856-9 Date Collected: 08/18/21 08:30 **Matrix: Solid** 

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.461 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175894	09/01/21 04:57	A9VE	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.00 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		20			176144	09/02/21 12:49	N1A	ECL 1
	Instrumen	t ID: GC48								

Lab Sample ID: 570-67856-10 **Client Sample ID: S-5-M6** Date Collected: 08/18/21 08:35 **Matrix: Solid** 

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.994 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175894	09/01/21 05:22	A9VE	ECL 2
	Instrumer	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.26 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			176144	09/02/21 13:11	N1A	ECL 1
	Instrumer	t ID: GC48								

**Client Sample ID: S-7.5-M6** Lab Sample ID: 570-67856-11 **Matrix: Solid** 

Date Collected: 08/18/21 08:40 Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.606 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	175894	09/01/21 10:27	A9VE	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 13:32	N1A	ECL 1
	Instrumen	t ID: GC48								

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Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-M6

Client: Cardno, Inc

Date Collected: 08/18/21 08:45 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67856-12

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.081 g	5 g	174021	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	175904	09/01/21 04:43	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 13:54	N1A	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-12.5-M6 Lab Sample ID: 570-67856-13

Date Collected: 08/18/21 08:50 Date Received: 08/20/21 09:30

Dil Initial Final Batch Batch Batch Prepared **Prep Type** Method Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 174021 Prep 3.902 g 5 g 08/24/21 16:26 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 175904 ECL 2 5 g 5 mL 09/01/21 08:07 P1R Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 10.11 g 10 mL 174383 08/25/21 18:16 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 176144 09/02/21 14:15 N1A ECL 1 Instrument ID: GC48

Lab Sample ID: 570-67856-14 Client Sample ID: S-2.5-L7 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Date Collected: 08/18/21 09:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.54 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175894	09/01/21 05:46	A9VE	ECL 2
	Instrumer	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.18 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			176144	09/02/21 21:03	N1A	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-5-L7 Lab Sample ID: 570-67856-15 **Matrix: Solid** 

Date Collected: 08/18/21 09:10 Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.42 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175894	09/01/21 06:10	A9VE	ECL 2
	Instrumer	it ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 14:59	N1A	ECL 1
	Instrumer	it ID: GC48								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.18 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	100			176550	09/03/21 14:15	N1A	ECL 1
	Instrumer	t ID: GC48								

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Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-L7

Client: Cardno, Inc

Date Collected: 08/18/21 09:15

Lab Sample ID: 570-67856-16

**Matrix: Solid** 

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.365 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC1		50	5 mL	5 mL	175894	09/01/21 10:03	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.04 g	10 mL	174383	08/25/21 18:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			176144	09/02/21 15:21	N1A	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-67856-17

**Matrix: Solid** 

Date Collected: 08/18/21 09:20 Date Received: 08/20/21 09:30

Instrument ID: GC48

Client Sample ID: S-10-L7

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.102 g 5 mL 174022 08/24/21 16:26 EDZ4 ECL 2 Total/NA Analysis **NWTPH-Gx** 250 5 mL 5 mL 175894 09/01/21 06:59 A9VE ECL 2 Instrument ID: GC1 Silica Gel Cleanup 3550C SGC 10.39 g 10 mL 174383 08/25/21 18:18 USUL ECL 1 Silica Gel Cleanup NWTPH-Dx 2 176144 09/02/21 15:42 N1A ECL 1 Analysis

Lab Sample ID: 570-67856-18 Client Sample ID: S-12.5-L7

Date Collected: 08/18/21 09:25 Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.52 g	5 g	174021	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	175904	09/01/21 08:31	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	174383	08/25/21 18:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 16:04	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-15-K4 Lab Sample ID: 570-67856-19

Date Collected: 08/18/21 07:20 **Matrix: Solid** Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.925 g	5 g	174021	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175904	09/01/21 08:54	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.23 g	10 mL	174383	08/25/21 18:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 16:25	N1A	ECL 1
	Instrumer	t ID: GC48								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

**Eurofins Calscience LLC** 

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**Matrix: Solid** 

## **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-67856-1

Project/Site: ExxonMobil ADC / 0314476040

### **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-11-21

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## **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5035	Closed System Purge and Trap	SW846	ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-67856-1

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💸 eurofins	7440 LINCOLN WAY		S	e Name		Everett Bulk Plant	CHAIN OF CUSTODY RECORD
	Calscience GARDEN GROVE, CA 92841-1432	141-1432	Provi	vide MRN for rei	de MRN for retail or AFE for major projects	alestolicationium ium annium arcinoracess	ŀ
	: EE. († 14) 030-0434 . FAA. († 14) 034-(00)	(* 14) 034-7001	Major	all Floject (MKN) ior Project (AFE)	STATES SERVICES SERVI	<u>a.</u>	PAGE J OF
ExxonMobil Engr	Jennifer Sedlachek		č	Project Name	<u> </u>	ExxonMobil ADC / 0314476040	
LABORATORY CLIENT					GLOBAL ID #/ COELT LOG CODE	CODE;	P.O. 0314476040 Aureement# 42604415
ADDRESS: 309 South Cloverdale Street Unit A13	reet Unit A13				PROJECT CONTACT:		
Seattle, WA 98108					Robert Thompson	son	
TCI 206-510-5855	N/A	robert.thon	pson@	robert.thompson@cardno.com	SAMPLER(S): FAUL F	SAMPLER(S): Faul Frevou, John Considine	い。
SAME DAY 24 HR	☐48 HR ☐72 HR	☐ 5 DAYS	☑ 10 DAYS			REQUESTE	
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWQCB REPORTING	OSTS MAY APPLY)  SARCHIVE SAMPLES UNTIL	П//					
SPECIAL INSTRUCTIONS. Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Include % Moisture in report for dry weight correction. Report to: laina.cole@cardno.com. robert thomsson@cardno.com.	rm Silica Gel Cleanup - 0.5 grams ight correction. Report to: laina.c	. Group results by sample cle@cardno.com. robert.	e, not by a	nalysis method. Beardno.com	i as Gaso		
All units in mg/kg. Report to: laina.cole@cardno.com, rob	ert.thompson@cardno.com. and c	sameron benner-ash@can	uo com		IGT X		
		SAMPLING	L	NO. OF CONT	о-н о-н		570-67856 Chain of Custody
USE SAMPLE ID	Field Point Name	DATE TIME	 ₩ ₩				CONTAINED TYPE
S-25-K4	hX ⁱ	8/11/2021 0705	S S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
2. S-5- Kd	Κq	7 (1)	-			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
4 6 46 40	\$		4		*	2 Sodium Bieuffate VGAs-4 Melhanet-VOA, eno fez un presensed glass jar	-mesecret glassjar
٦,	Z *	8/18/2021 0 715	S 4	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
A S-25-15	V-	-	+	1		2 Codium Division 100x 1 Method 100x	un-preserved glass Jar
\$ 5-5-05	25	1	4	4	< ×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar 2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved class iar	un-preserved glass jar un-breserved glass iar
57-5'2s g	57	8/18/2021 07SS	S	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
7 S-10-(S	<u>ک</u> ر		_	4	$\vdash$	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
8 5-12 5-75	65	8/18/2021 08/05	+	4	+	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
1	All	8/16/2021 0830	מ מ	4 4	< ×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
1 S-7.5-Mb	W6		+	4	+	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
N	Mb		Н	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
1) S-12 5-M6	M6	8/18/2021 DEST		4	$\vdash$	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
17 S-25-L/	/3	8/18/2021 0985	S	4 4	× >	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8/16/2021 091<	-	1 4	< ×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 402 un-preserved glass jar	ur-preserved glass jar un-preserved glass iar
			-	4	+	© 2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
	い	81/8/2021 2425		4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	un-preserved glass jar
14 S-12-144	k4	0220 1202/81/8	5	ъ	×	" "	1)
			-				
Frip Blank	Trip Blank	12021	₽.				
Relinquished by: (Signature)		47077	b gar	ived for (Signature)			
Paul Prevou	The state of the s		Fed Ted	ived by (Signature)			No. 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Relinquished by (Signature)			Received	ived by (Signature)		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2 mg/s
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			-	-			100

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Client: Cardno, Inc

Job Number: 570-67856-1

Login Number: 67856 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Creator. Italiios, mariber		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

## **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-67857-1

Client Project/Site: ExxonMobil ADC / 0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Suria

Authorized for release by: 9/3/2021 6:41:05 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# **Sample Summary**

Job ID: 570-67857-1 Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

570-67857-19

S-2-L9

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67857-1	S-2.5-K6	Solid	08/18/21 09:40	08/20/21 09:30
570-67857-2	S-5-K6	Solid	08/18/21 09:45	08/20/21 09:30
570-67857-3	S-7.5-K6	Solid	08/18/21 09:50	08/20/21 09:30
570-67857-4	S-10-K6	Solid	08/18/21 09:55	08/20/21 09:30
570-67857-5	S-12.5-K6	Solid	08/18/21 10:00	08/20/21 09:30
570-67857-6	S-2.5-K8	Solid	08/18/21 10:05	08/20/21 09:30
570-67857-7	S-5-K8	Solid	08/18/21 10:10	08/20/21 09:30
570-67857-8	S-7.5-K8	Solid	08/18/21 10:15	08/20/21 09:30
570-67857-9	S-10-K8	Solid	08/18/21 12:00	08/20/21 09:30
570-67857-10	S-12.5-K8	Solid	08/18/21 10:25	08/20/21 09:30
570-67857-11	S-5-L9	Solid	08/18/21 10:40	08/20/21 09:30
570-67857-12	S-10-L9	Solid	08/18/21 10:45	08/20/21 09:30
570-67857-13	S-12.5-L9	Solid	08/18/21 10:50	08/20/21 09:30
570-67857-14	S-2.5-M8	Solid	08/18/21 10:55	08/20/21 09:30
570-67857-15	S-5-M8	Solid	08/18/21 11:00	08/20/21 09:30
570-67857-16	S-7.5-M8	Solid	08/18/21 11:05	08/20/21 09:30
570-67857-17	S-10-M8	Solid	08/18/21 11:10	08/20/21 09:30
570-67857-18	S-12.5-M8	Solid	08/18/21 11:15	08/20/21 09:30

Solid

08/18/21 10:35 08/20/21 09:30

# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

#### **Qualifiers**

**GC VOA** 

Qualifier **Qualifier Description** 

S1+ Surrogate recovery exceeds control limits, high biased.

#### GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.
E	Result exceeded calibration range.

S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased.

### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.						
n	Eisted under the "D" column to designate that the result is reported on a dry weight basis						
%R	Percent Recovery						
CFL	Contains Free Liquid						
CFU	Colony Forming Unit						

CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

Relative Error Ratio (Radiochemistry) **RFR** 

RL Reporting Limit or Requested Limit (Radiochemistry)

**RPD** Relative Percent Difference, a measure of the relative difference between two points

**TEF** Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

**Eurofins Calscience LLC** 

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## Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67857-1

Job ID: 570-67857-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-67857-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/20/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5° C.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-5-L9 (570-67857-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical 175849. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-175972. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-176056. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) samples: (570-67857-A-1-C MS) and (570-67857-A-1-D MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method NWTPH-Dx: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 570-174386 and analytical batch 570-176144 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of TPH as Diesel (C10-C28) in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method NWTPH-Dx: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 570-174386 and analytical batch 570-176144 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of TPH as Motor Oil (C17-C44) in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Eurofins Calscience LLC 9/3/2021 Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-I	<b>K</b> 6			Lab Sample ID: 5	70-67857-1
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1200	120	mg/Kg	500 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	3100	12	mg/Kg	2 🌣 NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	320	12	mg/Kg	2 ☼ NWTPH-Dx	Silica Gel
_					Cleanup
Client Sample ID: S-5-K6	<b>5</b>			Lab Sample ID: 5	70-67857-2
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	560	190	mg/Kg	500 ☆ NWTPH-Gx	Total/NA
TPH as Motor Oil Range	920	38	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
TPH as Diesel Range - DL	14000	380	mg/Kg	50 ☼ NWTPH-Dx	Cleanup Silica Gel
			0 0		Cleanup
Client Sample ID: S-7.5-I	<b>&lt;</b> 6			Lab Sample ID: 5	70-67857-3
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	320		mg/Kg	100 ☆ NWTPH-Gx	Total/NA
TPH as Diesel Range	1100	5.7	mg/Kg	1 ᠅ NWTPH-Dx	Silica Gel
					Cleanup
TPH as Motor Oil Range	47	5.7	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-K	<b></b>			Lab Sample ID: 5	•
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	120		mg/Kg	50   NWTPH-Gx	Total/NA
TPH as Diesel Range	38	6.4	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
ĭ			3 3		Cleanup
TPH as Motor Oil Range	33	6.4	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
Client Sample ID: S-12.5	KC			Lab Sample ID: 5	Cleanup
Chefit Sample ID: 3-12.5	-1/10			Lab Sample ID. 5	70-07037-3
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	6.2	6.0	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
	<u> </u>				Cleanup
Client Sample ID: S-2.5-I	<b>18</b>			Lab Sample ID: 5	70-67857-6
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	4.5	0.21	mg/Kg	1 ☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	2800	28	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	530	28	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
			0 0		Cleanup
Client Sample ID: S-5-K8	3			Lab Sample ID: 5	70-67857-7
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	3200	160	mg/Kg	500 ₩ NWTPH-Gx	Total/NA
TPH as Diesel Range	19000	140	mg/Kg	20 ☼ NWTPH-Dx	Silica Gel
I and the second					01

This Detection Summary does not include radiochemical test results.

2300

TPH as Motor Oil Range

**Eurofins Calscience LLC** 

20 🌣 NWTPH-Dx

Cleanup

Silica Gel Cleanup

9/3/2021

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140

mg/Kg

Job ID: 570-67857-1 Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-K	(8			Lab Sample ID:	<b>570-67857-</b> 8
_ Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	3400	270	mg/Kg	500 🕏 NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	59000	230	mg/Kg	20 🌣 NWTPH-Dx	Silica Gel
					Cleanup
TPH as Motor Oil Range - DL	4500	230	mg/Kg	20 ☼ NWTPH-Dx	Silica Gel
_					Cleanup
Client Sample ID: S-10-K	8			Lab Sample ID:	570-67857-9
_ Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1500	140	mg/Kg	500 🛱 NWTPH-Gx	Total/NA
TPH as Motor Oil Range	270	6.5	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
_					Cleanup
TPH as Diesel Range - DL	4900	33	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
_					Cleanup
Client Sample ID: S-12.5-	K8			Lab Sample ID: 5	70-67857-10
- Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	10	1.8	mg/Kg	1 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	44	26	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
					Cleanup
TPH as Motor Oil Range	240	26	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-L9				Lab Sample ID: 5	•
- Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	6.7	0.23	mg/Kg	1 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	370	5.2	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
3			3 3		Cleanup
TPH as Motor Oil Range	280	5.2	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
- Oliant Cample ID: 0 40 L	•			Lab Cample ID: 5	Cleanup
Client Sample ID: S-10-L	9			Lab Sample ID: 5	/0-6/85/-12
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1400	78	mg/Kg	250 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	310	6.3	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
TDI A MATAR O'I DANS	00	0.0		4 NIMTOLL D.	Cleanup
TPH as Motor Oil Range	32	6.3	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5-	L9			Lab Sample ID: 5	70-67857-13
- Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	33	29	mg/Kg	1 🌣 NWTPH-Dx	Silica Gel
-			0 0		Cleanup
Client Sample ID: S-2.5-N	18			Lab Sample ID: 5	70-67857-14
- Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	3400	290	mg/Kg	1000   □ NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	27000	150	mg/Kg	20 🌣 NWTPH-Dx	Silica Gel
-					Cleanup
TPH as Motor Oil Range - DL	1300	150	mg/Kg	20 ☼ NWTPH-Dx	Silica Gel
_					Cleanup

This Detection Summary does not include radiochemical test results.

**Eurofins Calscience LLC** 

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# **Detection Summary**

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-5-M8

TPH as Motor Oil Range

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type			
TPH as Gasoline (C4-C13)	1200	48	mg/Kg	250	NWTPH-Gx	Total/NA			
TPH as Diesel Range	250	5.6	mg/Kg	1	⇔ NWTPH-Dx	Silica Gel			

5.6

mg/Kg

Client Sample ID: S-7.5-M8 Lab Sample ID: 570-67857-16

Analyte TPH as Gasoline (C4-C13)	Result Qualifier 490	RL	Unit mg/Kg		Method NWTPH-Gx	Prep Type Total/NA
TPH as Diesel Range	1300	13	mg/Kg	1	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	340	13	mg/Kg	1	∷ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-M8 Lab Sample ID: 570-67857-17

Analyte	Result Qualifier	RL	Unit	Dil Fac [	Method	Prep Type
TPH as Gasoline (C4-C13)	740	47	mg/Kg	250	NWTPH-Gx	Total/NA
TPH as Diesel Range	100	5.6	mg/Kg	1 ⊀	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	11	5.6	mg/Kg	1 ≾	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-12.5-M8 Lab Sample ID: 570-67857-18

Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	6.0	2.2	mg/Kg	1 × NWTPH-Gx	Total/NA
TPH as Motor Oil Range	37	31	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-2-L9 Lab Sample ID: 570-67857-19

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	96	58	mg/Kg	250	NWTPH-Gx	Total/NA
TPH as Diesel Range	2000	55	mg/Kg	10	∵ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	2100	55	mg/Kg	10	⇔ NWTPH-Dx	Cleanup Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 570-67857-15

1 ☼ NWTPH-Dx

Silica Gel Cleanup

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-K6

Date Collected: 08/18/21 09:40 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67857-1

**Matrix: Solid** 

**Matrix: Solid** 

- 1			
	Method: NWTPH-Gx - Northwest -	Volatile Petroleum Products (G0	2)

Analyte	Result	Qualifier	RL	` '	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1200		120		mg/Kg	<del>*</del>	08/23/21 13:47	09/01/21 16:25	500
Surrogate	%Recovery	Qualifier	l imite				Prenared	Analyzed	Dil Fac

4-Bromofluorobenzene (Surr) 08/23/21 13:47 09/01/21 16:25 131 50 - 150

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3100	12	mg/Kg	₩	08/25/21 18:24	09/01/21 22:37	2
TPH as Motor Oil Range	320	12	mg/Kg	☼	08/25/21 18:24	09/01/21 22:37	2
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

08/25/21 18:24 09/01/21 22:37 n-Octacosane (Surr) 53 50 - 150

Client Sample ID: S-5-K6 Lab Sample ID: 570-67857-2 Date Collected: 08/18/21 09:45

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL ,	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	560		190	mg/Kg	☼	08/23/21 13:47	09/01/21 15:57	500

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/23/21 13:47 09/01/21 15:57 4-Bromofluorobenzene (Surr) 101 50 - 150 500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

_	nalyte PH as Motor Oil Range		Qualifier	RL 38	Unit mg/Kg	<u>D</u>	Prepared 08/25/21 18:24	Analyzed 09/01/21 22:59	Dil Fac 5
	urrogate Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			<b>Prepared</b> 08/25/21 18:24	Analyzed 09/01/21 22:59	Dil Fac

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte TPH as Diesel Range	14000	Qualifier	RL 380	Unit mg/Kg	_ <del>D</del>	Prepared 08/25/21 18:24	Analyzed 09/02/21 16:47	Dil Fac
Surrogate n-Octacosane (Surr)	%Recovery 53	Qualifier	Limits 50 - 150			Prepared 08/25/21 18:24	Analyzed 09/02/21 16:47	Dil Fac

Client Sample ID: S-7.5-K6 Lab Sample ID: 570-67857-3 Date Collected: 08/18/21 09:50 Matrix: Solid

Date Received: 08/20/21 09:30

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Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC	
mothod: itti ii ox itortimoot tolatilo i oti olodiii i loddoto (o	-,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	320		20	mg/Kg	≎	08/23/21 13:47	09/01/21 15:28	100	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	176	S1+	50 - 150			08/23/21 13:47	09/01/21 15:28	100	

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1100		5.7	mg/Kg	<del>*</del>	08/25/21 18:24	09/01/21 23:21	1
TPH as Motor Oil Range	47		5.7	mg/Kg	☼	08/25/21 18:24	09/01/21 23:21	1

Client: Cardno, Inc Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-7.5-K6

Date Collected: 08/18/21 09:50 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67857-3

Matrix: Solid

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 118 50 - 150 08/25/21 18:24 09/01/21 23:21

Client Sample ID: S-10-K6 Lab Sample ID: 570-67857-4

Date Collected: 08/18/21 09:55 Date Received: 08/20/21 09:30

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac 08/23/21 13:47 09/01/21 15:00 TPH as Gasoline (C4-C13) 120 mg/Kg

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 157 S1+ 50 - 150 08/23/21 13:47 09/01/21 15:00 50

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range 38 6.4 mg/Kg 08/25/21 18:24 09/01/21 23:42 08/25/21 18:24 09/01/21 23:42 **TPH as Motor Oil Range** 33 6.4 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

n-Octacosane (Surr) 50 - 150 08/25/21 18:24 09/01/21 23:42 111

Client Sample ID: S-12.5-K6 Lab Sample ID: 570-67857-5 Date Collected: 08/18/21 10:00 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 0.24 mg/Kg 08/23/21 13:47 09/01/21 09:12

Surrogate %Recovery Qualifier I imits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 81 50 - 150 08/23/21 13:47 09/01/21 09:12

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range ND 6.0 mg/Kg 08/25/21 18:24 09/02/21 00:04 6.0 08/25/21 18:24 09/02/21 00:04 **TPH as Motor Oil Range** 6.2 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 08/25/21 18:24 09/02/21 00:04

Client Sample ID: S-2.5-K8 Lab Sample ID: 570-67857-6

Date Collected: 08/18/21 10:05

**Matrix: Solid** Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 4.5 0.21 mg/Kg 08/23/21 13:47 09/01/21 11:06 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 124 50 - 150 08/23/21 13:47 09/01/21 11:06

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-K8

Client: Cardno, Inc

Date Collected: 08/18/21 10:05 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67857-6

Lab Sample ID: 570-67857-8

**Matrix: Solid** 

**Matrix: Solid** 

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup
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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2800	28	mg/Kg	<u></u>	08/25/21 18:24	09/02/21 00:26	5
TPH as Motor Oil Range	530	28	mg/Kg	₩	08/25/21 18:24	09/02/21 00:26	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	139	50 - 150			08/25/21 18:24	09/02/21 00:26	5

Client Sample ID: S-5-K8 Lab Sample ID: 570-67857-7 Date Collected: 08/18/21 10:10 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3200		160	mg/Kg	<del>-</del>	08/23/21 13:47	09/01/21 21:14	500
	a							

Surrogate Prepared Analyzed Dil Fac %Recovery Qualifier Limits 08/23/21 13:47 09/01/21 21:14 4-Bromofluorobenzene (Surr) 69 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

			( - /				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	19000	140	mg/Kg	<u></u>	08/25/21 18:24	09/02/21 19:34	20
TPH as Motor Oil Range	2300	140	mg/Kg	≎	08/25/21 18:24	09/02/21 19:34	20
S	9/ Bassyamy Ovalities	l imeita			Dramarad	Amalumad	Dil Foo

Surrogate **%Recovery Qualifier** Analyzed n-Octacosane (Surr) 123 50 - 150 08/25/21 18:24 09/02/21 19:34 Client Sample ID: S-7.5-K8

Date Collected: 08/18/21 10:15 Date Received: 08/20/21 09:30

Method. NWTPH-GX - Northw	est - voiatile	Petroleur	ii Products (G	iC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3400		270	mg/Kg	<del>*</del>	08/23/21 13:47	09/01/21 20:48	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132		50 - 150			08/23/21 13:47	09/01/21 20:48	500

Method: NW I PH-DX - Norti	nwest - Semi-v	olatile Pet	roleum Produc	ts (GC) - Silica	Ger	اکا - leanup -		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	59000		230	mg/Kg	<u></u>	08/25/21 18:24	09/02/21 17:45	20
TPH as Motor Oil Range	4500		230	mg/Kg	₩	08/25/21 18:24	09/02/21 17:45	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		S1+	50 - 150			08/25/21 18:24	09/02/21 17:45	20

Client Sample ID: S-10-K8 Lab Sample ID: 570-67857-9

Date Collected: 08/18/21 12:00 Date Received: 08/20/21 09:30

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ı	Mothod: NWTDH-Gy - Northweet	Volatile Petroloum Products (GC)

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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1500	140	mg/Kg	<u></u>	08/23/21 13:47	09/01/21 20:23	500

**Eurofins Calscience LLC** 

**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-K8

Date Collected: 08/18/21 12:00 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67857-9

**Matrix: Solid** 

Surrogate	%Recovery Qu	ualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150	08/23/21 13:47	09/01/21 20:23	500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Motor Oil Range** mg/Kg © 08/25/21 18:24 09/02/21 01:32 270 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 124 50 - 150 08/25/21 18:24 09/02/21 01:32

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL Result Qualifier Prepared RL Unit D Analyzed Dil Fac TPH as Diesel Range 4900 33 08/25/21 18:24 09/02/21 18:07 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/25/21 18:24 09/02/21 18:07 n-Octacosane (Surr) 142 50 - 150

Client Sample ID: S-12.5-K8 Lab Sample ID: 570-67857-10 Date Collected: 08/18/21 10:25 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Norti	hwest - Volatile	e Petroleur	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	10		1.8	mg/Kg	<u></u>	08/23/21 13:47	09/01/21 09:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150			08/23/21 13:47	09/01/21 09:40	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	44		26	mg/Kg	<u></u>	08/25/21 18:24	09/02/21 01:54	1
TPH as Motor Oil Range	240		26	mg/Kg	₩	08/25/21 18:24	09/02/21 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111		50 - 150			08/25/21 18:24	09/02/21 01:54	

Client Sample ID: S-5-L9 Lab Sample ID: 570-67857-11 Date Collected: 08/18/21 10:40 Matrix: Solid

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - North	west - Volatile	Petroleur	n Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	6.7		0.23	mg/Kg	☆	08/23/21 13:47	09/01/21 11:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	286	S1+	50 - 150			08/23/21 13:47	09/01/21 11:35	1

Method: NWTPH-Dx - North	hwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	370	5.2	mg/Kg	— <u></u>	08/25/21 18:24	09/02/21 03:00	1
TPH as Motor Oil Range	280	5.2	mg/Kg	₩	08/25/21 18:24	09/02/21 03:00	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121	50 - 150			08/25/21 18:24	09/02/21 03:00	1

**Eurofins Calscience LLC** 

**Client Sample ID: S-10-L9** 

Date Collected: 08/18/21 10:45 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67857-12

**Matrix: Solid** 

Job ID: 570-67857-1

Method: NWTPH-Gx - Northw	vest - Volatile	Petroleui	m Products (GC	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1400		78	mg/Kg	<u></u>	08/23/21 13:47	09/01/21 22:07	250
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	Limits 50 - 150			<b>Prepared</b> 08/23/21 13:47	Analyzed 09/01/21 22:07	<b>Dil Fac</b> 250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	310		6.3	mg/Kg	<u></u>	08/25/21 18:24	09/02/21 03:21	1
TPH as Motor Oil Range	32		6.3	mg/Kg	₩	08/25/21 18:24	09/02/21 03:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150			08/25/21 18:24	09/02/21 03:21	1

Lab Sample ID: 570-67857-13 Client Sample ID: S-12.5-L9 Date Collected: 08/18/21 10:50 **Matrix: Solid** 

Date Received: 08/20/21 09:30 Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac

TPH as Gasoline (C4-C13)	ND	2.0	mg/Kg ⇒	08/23/21 13:47	09/01/21 10:09	1
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery Qualifier 68	Limits 50 - 150		<b>Prepared</b> 08/23/21 13:47	Analyzed 09/01/21 10:09	Dil Fac

Method: NWTPH-Dx - Northwe	st - Semi-V	olatile Petr	oleum Pro	ducts (GC) - Silica Gel	I C	leanup		
Analyte	Result	Qualifier	RL	Unit I	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		29	mg/Kg	<del>⇔</del> (	08/25/21 18:24	09/02/21 03:44	1
TPH as Motor Oil Range	33		29	mg/Kg	<b>†</b> (	08/25/21 18:24	09/02/21 03:44	1
Surrogate n-Octacosane (Surr)	%Recovery 108	Qualifier	<b>Limits</b> 50 - 150		ī	<b>Prepared</b> 08/25/21 18:24	Analyzed 09/02/21 03:44	Dil Fac

Lab Sample ID: 570-67857-14 Client Sample ID: S-2.5-M8 Date Collected: 08/18/21 10:55 **Matrix: Solid** 

Date Received: 08/20/21 09:30

Method: NWTPH-Gx - North	west - Volatile	<b>Petroleu</b> i	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3400		290	mg/Kg	₽	08/23/21 13:47	09/01/21 23:24	1000
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			<b>Prepared</b> 08/23/21 13:47	Analyzed 09/01/21 23:24	<b>Dil Fac</b> 1000

Method: NWTPH-Dx - North	thwest - Semi-Volatile P	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup - DL		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	27000	150	mg/Kg	₽	08/25/21 18:24	09/02/21 19:13	20
TPH as Motor Oil Range	1300	150	mg/Kg	₩	08/25/21 18:24	09/02/21 19:13	20
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	118	50 - 150			08/25/21 18:24	09/02/21 19:13	20

Lab Sample ID: 570-67857-15 Client Sample ID: S-5-M8

Date Collected: 08/18/21 11:00 Date Received: 08/20/21 09:30

**Matrix: Solid** 

Job ID: 570-67857-1

Method: NWTPH-Gx - Northwest - \	Volatile Petroleum Products (GC)
----------------------------------	----------------------------------

Analyte	Result	Qualifier	KL	Unit	ט	,	Prepared	Analyzed	DII Fac
TPH as Gasoline (C4-C13)	1200		48	mg/Kg	g ==	. (	08/23/21 13:47	09/01/21 20:53	250

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 106 50 - 150 08/23/21 13:47 09/01/21 20:53 250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifie	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	250	5.6	mg/Kg	<u></u>	08/25/21 18:24	09/02/21 04:28	1
TPH as Motor Oil Range	14	5.6	mg/Kg	₩	08/25/21 18:24	09/02/21 04:28	1
Surrogate	%Recovery Qualifie	er Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106	50 - 150			08/25/21 18:24	09/02/21 04:28	1

Client Sample ID: S-7.5-M8 Lab Sample ID: 570-67857-16 Date Collected: 08/18/21 11:05

Date Received: 08/20/21 09:30

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	490	190	mg/Kg	☼	08/23/21 13:47	09/01/21 21:16	250

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 08/23/21 13:47 09/01/21 21:16 4-Bromofluorobenzene (Surr) 80 50 - 150 250

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1300	13	mg/Kg	— <u></u>	08/25/21 18:24	09/02/21 04:49	1
TPH as Motor Oil Range	340	13	mg/Kg	₽	08/25/21 18:24	09/02/21 04:49	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Lab Sample ID: 570-67857-17 Client Sample ID: S-10-M8

50 - 150

Date Collected: 08/18/21 11:10 Date Received: 08/20/21 09:30

n-Octacosane (Surr)

**Matrix: Solid** 

08/25/21 18:24 09/02/21 04:49

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

112

Analyte TPH as Gasoline (C4-C13)	Result Qualifier	RL 47	Unit mg/Kg	D Prepared	Analyzed 09/01/21 21:39	Dil Fac 250
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery Qualifier	Limits 50 - 150		Prepared 08/23/21 13:47	Analyzed 09/01/21 21:39	Dil Fac

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Method: MWT1 11-DX - Morti	iwest - beilii-volatile i et	roicuiii i rouuc	to (GG) - Gillea	OCI V	Jicanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	100	5.6	mg/Kg	☼	08/25/21 18:24	09/02/21 05:12	1
TPH as Motor Oil Range	11	5.6	mg/Kg	☼	08/25/21 18:24	09/02/21 05:12	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104	50 - 150			08/25/21 18:24	09/02/21 05:12	1

# **Client Sample Results**

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-M8

Lab Sample ID: 570-67857-18

Date Collected: 08/18/21 11:15 **Matrix: Solid** Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	6.0		2.2	mg/Kg	<del>-</del>	08/23/21 13:47	09/01/21 10:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			08/23/21 13:47	09/01/21 10:38	1

Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND		31	mg/Kg	₩	08/25/21 18:24	09/02/21 05:34	1
TPH as Motor Oil Range	37		31	mg/Kg	₩	08/25/21 18:24	09/02/21 05:34	1
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)			50 - 150			08/25/21 18:24	09/02/21 05:34	

Client Sample ID: S-2-L9 Lab Sample ID: 570-67857-19 Matrix: Solid

Date Collected: 08/18/21 10:35 Date Received: 08/20/21 09:30

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Prepared Dil Fac Unit Analyzed TPH as Gasoline (C4-C13) 96 mg/Kg 08/23/21 13:47 09/01/21 22:03

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	50 - 150	08/23/21 13:47	09/01/21 22:03	250

Method: NWTPH-Dx - Northy	vest - Semi-V	olatile Petr	oleum Produ	icts (GC) - Silica Ge	Cleanup		
Analyte	Result	Qualifier	RL	Unit I	D Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2000		55	mg/Kg	08/25/21 18:24	09/03/21 12:47	10
TPH as Motor Oil Range	2100		55	mg/Kg	08/25/21 18:24	09/03/21 12:47	10
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150		<b>Prepared</b> 08/25/21 18:24	Analyzed 09/03/21 12:47	Dil Fac

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Solid Prep Type: Total/NA** 

		BFB1	
ab Sample ID	Client Sample ID	(50-150)	
70-67857-1	S-2.5-K6	131	
70-67857-2	S-5-K6	101	
'0-67857-3	S-7.5-K6	176 S1+	
'0-67857-4	S-10-K6	157 S1+	
0-67857-5	S-12.5-K6	81	
70-67857-6	S-2.5-K8	124	
70-67857-7	S-5-K8	69	
0-67857-8	S-7.5-K8	132	
0-67857-9	S-10-K8	64	
0-67857-10	S-12.5-K8	101	
0-67857-11	S-5-L9	286 S1+	
70-67857-12	S-10-L9	71	
0-67857-13	S-12.5-L9	68	
0-67857-14	S-2.5-M8	139	
)-67857-15	S-5-M8	106	
0-67857-16	S-7.5-M8	80	
0-67857-17	S-10-M8	85	
0-67857-18	S-12.5-M8	101	
0-67857-19	S-2-L9	75	
S 570-175849/14	Lab Control Sample	106	
S 570-175972/3	Lab Control Sample	110	
S 570-176056/6	Lab Control Sample	87	
SD 570-175849/15	Lab Control Sample Dup	108	
SD 570-175972/4	Lab Control Sample Dup	123	
SD 570-176056/7	Lab Control Sample Dup	89	
3 570-175849/4	Method Blank	78	
3 570-175849/5	Method Blank	79	
3 570-175972/6	Method Blank	75	
570-176056/9	Method Blank	64	

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid **Prep Type: Silica Gel Cleanup** 

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-67857-1	S-2.5-K6	53	
570-67857-1 MS	S-2.5-K6	119	
570-67857-1 MS	S-2.5-K6	40 S1-	
570-67857-1 MSD	S-2.5-K6	121	
570-67857-1 MSD	S-2.5-K6	47 S1-	
570-67857-2	S-5-K6	129	
570-67857-2 - DL	S-5-K6	53	
570-67857-3	S-7.5-K6	118	
570-67857-4	S-10-K6	111	
570-67857-5	S-12.5-K6	116	
570-67857-6	S-2.5-K8	139	

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# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Prep Type: Silica Gel Cleanup **Matrix: Solid** 

		OTOON	Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-67857-7	S-5-K8	123	
570-67857-8 - DL	S-7.5-K8	151 S1+	
570-67857-9	S-10-K8	124	
570-67857-9 - DL	S-10-K8	142	
570-67857-10	S-12.5-K8	111	
570-67857-11	S-5-L9	121	
570-67857-12	S-10-L9	109	
570-67857-13	S-12.5-L9	108	
570-67857-14 - DL	S-2.5-M8	118	
570-67857-15	S-5-M8	106	
570-67857-16	S-7.5-M8	112	
570-67857-17	S-10-M8	104	
570-67857-18	S-12.5-M8	111	
570-67857-19	S-2-L9	110	
LCS 570-174386/2-A	Lab Control Sample	116	
LCS 570-174386/6-A	Lab Control Sample	116	
LCSD 570-174386/3-A	Lab Control Sample Dup	110	
LCSD 570-174386/7-A	Lab Control Sample Dup	112	
MB 570-174386/1-A	Method Blank	110	

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Lab Sample ID: MB 570-175849/4

Job ID: 570-67857-1

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Prep Type: Total/NA** 

Client Sample ID: Method Blank

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Client Sample ID: Method Blank

**Matrix: Solid** 

Analysis Batch: 175849

MB MB

Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 08/31/21 20:44

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 78 50 - 150 08/31/21 20:44

Client Sample ID: Method Blank Lab Sample ID: MB 570-175849/5 Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 175849

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 08/31/21 21:19 TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 20

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 79 50 - 150 08/31/21 21:19

Lab Sample ID: LCS 570-175849/14

**Matrix: Solid** 

**Analysis Batch: 175849** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits

TPH as Gasoline (C4-C13) 2.12 2.015 mg/Kg 95 77 - 128

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 106 50 - 150

Lab Sample ID: LCSD 570-175849/15

**Matrix: Solid** 

**Analysis Batch: 175849** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Gasoline (C4-C13) 2.11 2.026 96 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 108 50 - 150

Lab Sample ID: MB 570-175972/6

**Matrix: Solid Prep Type: Total/NA Analysis Batch: 175972** MB MB

Result Qualifier RL D Analyte Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 09/01/21 12:18 20

MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 75 50 - 150 09/01/21 12:18 4-Bromofluorobenzene (Surr) 20

Job ID: 570-67857-1

Prep Type: Total/NA

Project/Site: ExxonMobil ADC / 0314476040

# Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-175972/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

Client: Cardno, Inc

**Analysis Batch: 175972** 

TPH as Gasoline (C4-C13)

Spike LCS LCS %Rec. Result Qualifier Added Limits Analyte Unit %Rec

2.12

LCS LCS Surrogate %Recovery Qualifier

Limits 4-Bromofluorobenzene (Surr) 110 50 - 150

Lab Sample ID: LCSD 570-175972/4 Client Sample ID: Lab Control Sample Dup

2.051

mg/Kg

97

77 - 128

**Matrix: Solid** 

**Analysis Batch: 175972** 

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.12 1.944 mg/Kg 92 77 - 128 5

LCSD LCSD %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Client Sample ID: Method Blank Lab Sample ID: MB 570-176056/9 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 176056** 

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 5.0  $\overline{\mathsf{ND}}$ mg/Kg 09/01/21 16:04

MB MB

Surrogate %Recovery Qualifier Dil Fac Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 64 50 - 150 09/01/21 16:04 20

Lab Sample ID: LCS 570-176056/6 **Client Sample ID: Lab Control Sample Prep Type: Total/NA** 

**Matrix: Solid** 

**Analysis Batch: 176056** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec TPH as Gasoline (C4-C13) 2.12 2.089 99 77 - 128 mg/Kg

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150 87

Lab Sample ID: LCSD 570-176056/7

**Matrix: Solid** 

**Analysis Batch: 176056** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte 2.12 TPH as Gasoline (C4-C13) 2.138 mg/Kg 101 77 - 128

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 89

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-174386/1-A **Matrix: Solid** 

Analysis Batch: 176144

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup

Prep Batch: 174386

Result Qualifier RL Unit Analyzed Dil Fac Analyte Prepared TPH as Diesel Range ND 5.0 mg/Kg 08/25/21 18:24 09/01/21 19:00 TPH as Motor Oil Range ND 5.0 mg/Kg 08/25/21 18:24 09/01/21 19:00

MB MB

MB MB

Qualifier Surrogate %Recovery I imite Prepared Analyzed Dil Fac n-Octacosane (Surr) 110 50 - 150 08/25/21 18:24 09/01/21 19:00

LCS LCS

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 174386 %Rec.

Spike Added Limits Result Qualifier %Rec Analyte Unit 76 - 126 TPH as Diesel (C10-C28) 400 443.0 mg/Kg 111

> LCS LCS %Recovery Qualifier Limits

Surrogate 50 - 150 n-Octacosane (Surr) 116

Lab Sample ID: LCS 570-174386/6-A

Lab Sample ID: LCS 570-174386/2-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 176144

**Analysis Batch: 176144** 

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

Prep Batch: 174386

Spike LCS LCS %Rec. Added Result Qualifier Limits Unit %Rec Analyte TPH as Motor Oil (C17-C44) 400 444.5 mg/Kg 111 71 - 139

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 116 50 - 150

Lab Sample ID: LCSD 570-174386/3-A

**Matrix: Solid** 

Analysis Batch: 176144

Client Sample ID: Lab Control Sample Dup Prep Type: Silica Gel Cleanup

Prep Batch: 174386

LCSD LCSD RPD Spike %Rec. Added Limits Result Qualifier Unit %Rec **RPD** Limit 400 455.9 76 - 126 TPH as Diesel (C10-C28) mg/Kg 114

LCSD LCSD

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 110 50 - 150

Lab Sample ID: LCSD 570-174386/7-A

**Matrix: Solid** 

**Analysis Batch: 176144** 

Client Sample ID: Lab Control Sample Dup **Prep Type: Silica Gel Cleanup** 

Prep Batch: 174386

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit TPH as Motor Oil (C17-C44) 400 440.6 mg/Kg 110 71 - 139

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 112 50 - 150

**Eurofins Calscience LLC** 

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

M	ab Sample ID: 570-67857 latrix: Solid nalysis Batch: 176144	7-1 MS						P		oe: Silica	ID: S-2.5-K6 Gel Cleanup atch: 174386
	narysis Baton. 170144	Sample	Sample	Spike	MS	MS				%Rec.	uton: 174000
Ar	nalyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TF	PH as Diesel (C10-C28)	3200		479	9041	E 4	mg/Kg	<del>-</del>	1225	37 - 175	
		MS	MS								
Sı	urrogate	%Recovery	Qualifier	Limits							
n-	Octacosane (Surr)	119		50 - 150							

Lab Sample ID: 570-67857 Matrix: Solid Analysis Batch: 176144	7-1 MS						P		t Sample ID: S-2.5 be: Silica Gel Clear Prep Batch: 174	nup
Analysis Batch: 170144	Sample	Sample	Spike	MS	MS				%Rec.	500
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	1600		469	2163	E	mg/Kg	<del>-</del>	114	71 - 174	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	40	S1-	50 - 150							

Lab Sample ID: 570-67857 Matrix: Solid	-1 MSD						P		it Sample be: Silica		
Analysis Batch: 176144									Prep Ba	atch: 17	74386
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	3200		468	9763	E 4	mg/Kg	<del>*</del>	1409	37 - 175	8	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	121		50 - 150								

Lab Sample ID: 570-6785 Matrix: Solid Analysis Batch: 176144	7-1 MSD						P		t Sample be: Silica Prep Ba	Gel Cle	anup
_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	1600		469	2112	E	mg/Kg	<u></u>	103	71 - 174	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	47	S1-	50 - 150								

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# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

# **GC VOA**

# **Prep Batch: 173648**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67857-1	S-2.5-K6	Total/NA	Solid	5035	
570-67857-2	S-5-K6	Total/NA	Solid	5035	
570-67857-3	S-7.5-K6	Total/NA	Solid	5035	
570-67857-4	S-10-K6	Total/NA	Solid	5035	
570-67857-7	S-5-K8	Total/NA	Solid	5035	
570-67857-8	S-7.5-K8	Total/NA	Solid	5035	
570-67857-9	S-10-K8	Total/NA	Solid	5035	
570-67857-12	S-10-L9	Total/NA	Solid	5035	
570-67857-14	S-2.5-M8	Total/NA	Solid	5035	
570-67857-15	S-5-M8	Total/NA	Solid	5035	
570-67857-16	S-7.5-M8	Total/NA	Solid	5035	
570-67857-17	S-10-M8	Total/NA	Solid	5035	
570-67857-19	S-2-L9	Total/NA	Solid	5035	

#### **Prep Batch: 173650**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67857-5	S-12.5-K6	Total/NA	Solid	5035	<del></del>
570-67857-6	S-2.5-K8	Total/NA	Solid	5035	
570-67857-10	S-12.5-K8	Total/NA	Solid	5035	
570-67857-11	S-5-L9	Total/NA	Solid	5035	
570-67857-13	S-12.5-L9	Total/NA	Solid	5035	
570-67857-18	S-12.5-M8	Total/NA	Solid	5035	

# **Analysis Batch: 175849**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67857-1	S-2.5-K6	Total/NA	Solid	NWTPH-Gx	173648
570-67857-2	S-5-K6	Total/NA	Solid	NWTPH-Gx	173648
570-67857-3	S-7.5-K6	Total/NA	Solid	NWTPH-Gx	173648
570-67857-4	S-10-K6	Total/NA	Solid	NWTPH-Gx	173648
570-67857-5	S-12.5-K6	Total/NA	Solid	NWTPH-Gx	173650
570-67857-6	S-2.5-K8	Total/NA	Solid	NWTPH-Gx	173650
570-67857-10	S-12.5-K8	Total/NA	Solid	NWTPH-Gx	173650
570-67857-11	S-5-L9	Total/NA	Solid	NWTPH-Gx	173650
570-67857-13	S-12.5-L9	Total/NA	Solid	NWTPH-Gx	173650
570-67857-18	S-12.5-M8	Total/NA	Solid	NWTPH-Gx	173650
MB 570-175849/4	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-175849/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175849/14	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175849/15	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

# **Analysis Batch: 175972**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67857-15	S-5-M8	Total/NA	Solid	NWTPH-Gx	173648
570-67857-16	S-7.5-M8	Total/NA	Solid	NWTPH-Gx	173648
570-67857-17	S-10-M8	Total/NA	Solid	NWTPH-Gx	173648
570-67857-19	S-2-L9	Total/NA	Solid	NWTPH-Gx	173648
MB 570-175972/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-175972/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-175972/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

# **GC VOA**

# Analysis Batch: 176056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67857-7	S-5-K8	Total/NA	Solid	NWTPH-Gx	173648
570-67857-8	S-7.5-K8	Total/NA	Solid	NWTPH-Gx	173648
570-67857-9	S-10-K8	Total/NA	Solid	NWTPH-Gx	173648
570-67857-12	S-10-L9	Total/NA	Solid	NWTPH-Gx	173648
570-67857-14	S-2.5-M8	Total/NA	Solid	NWTPH-Gx	173648
MB 570-176056/9	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-176056/6	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-176056/7	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

# **GC Semi VOA**

# **Prep Batch: 174386**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67857-1	S-2.5-K6	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-2	S-5-K6	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-2 - DL	S-5-K6	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-3	S-7.5-K6	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-4	S-10-K6	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-5	S-12.5-K6	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-6	S-2.5-K8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-7	S-5-K8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-8 - DL	S-7.5-K8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-9	S-10-K8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-9 - DL	S-10-K8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-10	S-12.5-K8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-11	S-5-L9	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-12	S-10-L9	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-13	S-12.5-L9	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-14 - DL	S-2.5-M8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-15	S-5-M8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-16	S-7.5-M8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-17	S-10-M8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-18	S-12.5-M8	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-19	S-2-L9	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-174386/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174386/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-174386/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174386/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-174386/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-1 MS	S-2.5-K6	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-1 MS	S-2.5-K6	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-1 MSD	S-2.5-K6	Silica Gel Cleanup	Solid	3550C SGC	
570-67857-1 MSD	S-2.5-K6	Silica Gel Cleanup	Solid	3550C SGC	

# **Analysis Batch: 176144**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67857-1	S-2.5-K6	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-2	S-5-K6	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-2 - DL	S-5-K6	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-3	S-7.5-K6	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-4	S-10-K6	Silica Gel Cleanup	Solid	NWTPH-Dx	174386

**Eurofins Calscience LLC** 

# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

# GC Semi VOA (Continued)

# **Analysis Batch: 176144 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67857-5	S-12.5-K6	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-6	S-2.5-K8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-7	S-5-K8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-8 - DL	S-7.5-K8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-9	S-10-K8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-9 - DL	S-10-K8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-10	S-12.5-K8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-11	S-5-L9	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-12	S-10-L9	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-13	S-12.5-L9	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-14 - DL	S-2.5-M8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-15	S-5-M8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-16	S-7.5-M8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-17	S-10-M8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-18	S-12.5-M8	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
MB 570-174386/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
LCS 570-174386/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
LCS 570-174386/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
LCSD 570-174386/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
LCSD 570-174386/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-1 MS	S-2.5-K6	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-1 MS	S-2.5-K6	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-1 MSD	S-2.5-K6	Silica Gel Cleanup	Solid	NWTPH-Dx	174386
570-67857-1 MSD	S-2.5-K6	Silica Gel Cleanup	Solid	NWTPH-Dx	174386

# **Analysis Batch: 176550**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67857-19	S-2-L9	Silica Gel Cleanup	Solid	NWTPH-Dx	174386

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Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-2.5-K6

Date Collected: 08/18/21 09:40 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67857-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.237 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC25		500	5 mL	5 mL	175849	09/01/21 16:25	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.21 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			176144	09/01/21 22:37	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-5-K6 Lab Sample ID: 570-67857-2 **Matrix: Solid** 

Date Collected: 08/18/21 09:45 Date Received: 08/20/21 09:30

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.134 g 5 mL 173648 08/23/21 13:47 EDZ4 ECL 2 Total/NA **NWTPH-Gx** Analysis 500 5 mL 5 mL 175849 09/01/21 15:57 P1R ECL 2 Instrument ID: GC25 Silica Gel Cleanup 3550C SGC 10.14 g 10 mL 174386 08/25/21 18:24 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 176144 09/01/21 22:59 N1A ECL 1 5 Instrument ID: GC48 Silica Gel Cleanup 3550C SGC DL Prep 10.14 g 10 mL 174386 08/25/21 18:24 USUL ECL₁ Silica Gel Cleanup Analysis NWTPH-Dx DL 50 176144 09/02/21 16:47 N1A ECL 1 Instrument ID: GC48

Client Sample ID: S-7.5-K6 Lab Sample ID: 570-67857-3 Date Collected: 08/18/21 09:50 Matrix: Solid

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.327 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	175849	09/01/21 15:28	P1R	ECL 2
	Instrumer	nt ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.32 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/01/21 23:21	N1A	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-67857-4 Client Sample ID: S-10-K6 Date Collected: 08/18/21 09:55 Matrix: Solid

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Initial Final Batch Prep	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.855 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	175849	09/01/21 15:00	P1R	ECL 2
	Instrumen	it ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/01/21 23:42	N1A	ECL 1
	Instrumen	t ID: GC48								

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Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-K6

Date Collected: 08/18/21 10:00 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67857-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.386 g	5 g	173650	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC25		1	5 g	5 mL	175849	09/01/21 09:12	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.20 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 00:04	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-2.5-K8 Lab Sample ID: 570-67857-6 Date Collected: 08/18/21 10:05 **Matrix: Solid** 

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.924 g	5 g	173650	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175849	09/01/21 11:06	P1R	ECL 2
	Instrumen	t ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.30 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			176144	09/02/21 00:26	N1A	ECL 1
	Instrumen	t ID: GC48								

Lab Sample ID: 570-67857-7 **Client Sample ID: S-5-K8** Date Collected: 08/18/21 10:10 **Matrix: Solid** 

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.722 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	176056	09/01/21 21:14	A9VE	ECL 2
	Instrumer	nt ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		20			176144	09/02/21 19:34	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-K8 Lab Sample ID: 570-67857-8

Date Collected: 08/18/21 10:15 Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	176056	09/01/21 20:48	A9VE	ECL 2
	Instrumen	it ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.04 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	20			176144	09/02/21 17:45	N1A	ECL 1
	Instrumen	t ID: GC48								

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-K8

Date Collected: 08/18/21 12:00 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67857-9

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.105 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC22		500	5 mL	5 mL	176056	09/01/21 20:23	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.29 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx at ID: GC48		1			176144	09/02/21 01:32	N1A	ECL 1
Silica Gel Cleanup	Prep	3550C SGC	DL		10.29 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx at ID: GC48	DL	5			176144	09/02/21 18:07	N1A	ECL 1

Lab Sample ID: 570-67857-10 Client Sample ID: S-12.5-K8

Date Collected: 08/18/21 10:25

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.625 g	5 g	173650	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC25		1	5 g	5 mL	175849	09/01/21 09:40	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 01:54	N1A	ECL 1
	Instrumer	t ID: GC48								

Lab Sample ID: 570-67857-11 **Client Sample ID: S-5-L9** Date Collected: 08/18/21 10:40 **Matrix: Solid** 

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.93 g	5 g	173650	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175849	09/01/21 11:35	P1R	ECL 2
	Instrumer	nt ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.35 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 03:00	N1A	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: S-10-L9** Lab Sample ID: 570-67857-12

Date Collected: 08/18/21 10:45 Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.154 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC22		250	5 mL	5 mL	176056	09/01/21 22:07	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.27 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 03:21	N1A	ECL 1

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-12.5-L9

Date Collected: 08/18/21 10:50 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67857-13

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.558 g	5 g	173650	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC25		1	5 g	5 mL	175849	09/01/21 10:09	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.00 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 03:44	N1A	ECL 1
	Instrumer	it ID: GC48								

Client Sample ID: S-2.5-M8

Date Collected: 08/18/21 10:55 Date Received: 08/20/21 09:30

Lab Sample ID: 570-67857-14

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.225 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1000	5 mL	5 mL	176056	09/01/21 23:24	A9VE	ECL 2
	Instrumen	t ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.04 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	20			176144	09/02/21 19:13	N1A	ECL 1
	Instrumen	t ID: GC48								

**Client Sample ID: S-5-M8** 

Date Collected: 08/18/21 11:00 Date Received: 08/20/21 09:30 Lab Sample ID: 570-67857-15

Lab Sample ID: 570-67857-16

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.466 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175972	09/01/21 20:53	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.27 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 04:28	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-M8

Date Collected: 08/18/21 11:05

Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.468 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175972	09/01/21 21:16	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.31 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 04:49	N1A	ECL 1
	Instrumen	t ID: GC48								

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Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

Client Sample ID: S-10-M8

Date Collected: 08/18/21 11:10 Date Received: 08/20/21 09:30 Lab Sample ID: 570-67857-17

**Matrix: Solid** 

Matrix: Solid

Batch Dil Batch Batch Initial Final Prepared Method Factor Number or Analyzed **Prep Type** Type Run **Amount Amount** Analyst Lab Total/NA 5035 7.518 g 173648 08/23/21 13:47 ECL 2 Prep 5 mL EDZ4 Total/NA **NWTPH-Gx** 250 175972 09/01/21 21:39 P1R ECL 2 Analysis 5 mL 5 mL Instrument ID: GC57 Silica Gel Cleanup Prep 3550C SGC 10.14 g 10 mL 174386 08/25/21 18:24 USUL ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 176144 09/02/21 05:12 N1A ECL 1 Instrument ID: GC48

Client Sample ID: S-12.5-M8 Lab Sample ID: 570-67857-18

Date Collected: 08/18/21 11:15 Date Received: 08/20/21 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.593 g	5 g	173650	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC25		1	5 g	5 mL	175849	09/01/21 10:38	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx at ID: GC48		1			176144	09/02/21 05:34	N1A	ECL 1

Client Sample ID: S-2-L9

Date Collected: 08/18/21 10:35

Lab Sample ID: 570-67857-19

Matrix: Solid

Date Collected: 08/18/21 10:35 Date Received: 08/20/21 09:30

Instrument ID: GC48

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 5035 5.916 g 5 mL 173648 08/23/21 13:47 EDZ4 ECL 2 Prep Total/NA Analysis **NWTPH-Gx** 250 5 mL 5 mL 175972 09/01/21 22:03 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 08/25/21 18:24 USUL ECL 1 Prep 10.04 g 10 mL 174386 Silica Gel Cleanup **NWTPH-Dx** ECL 1 Analysis 10 176550 09/03/21 12:47 N1A

**Laboratory References:** 

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-67857-1

Project/Site: ExxonMobil ADC / 0314476040

# **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-11-21

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# **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC / 0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5035	Closed System Purge and Trap	SW846	FCL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-67857-1

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SILIOINS &						RECORDERENTALISMENT		EVEREIT BUIK Plant	CHAIN OF CUSTODY RECORD	RECORD
	Calscience GARDEN GROVE, CA 92841-1432	3ROVE, CA 92841-1432		Províd	de MRN for retail or AFE for major projects	all or AFE I	or major	projects	DATE: 8/19 /2021	
	TEL. (714)	TEL. (714) 895-5494 . FAX. (714) 894-7501	.601	Retail	Retail Project (MRN)				PAGE OF	
				Majort	r Project (AFE)					
ExxonMobil Engr	Jennifer Sedlachek	odlachek		Project	Project Name		ExxonM	ExxonMobil ADC / 0314476040		
LABORATORY CLIENT:  Cardno						GLOBAL ID # COELT LOG CODE	TLOG CODE:		P O 0314476040 Aareemen# A2604415	2604415
ADDRESS: 309 South Clove	309 South Cloverdale Street Unit A13	8				PROJECT CONTACT	10		Y.B.E.D.SE.ONE.Y.	
Seattle, WA 98108	82					Robert Thompson	ompson	Table On the Control	+ 30 23 000	
Tel 206-510-5855	·> \	N/A rot	robert.thompson@ca	son@card	rdno.com	SAMPLER(S): Fa	ui Prevou	SAMPLER(S): Paul Prevou, John Considine	COURT ARCEIN	Ç
SAME DAY 24 HR	4 HR 💮 🗀 48 HR	☐72 HR ☐ 5 DAYS		✓ 10 DAYS				REQUEST	REQUESTED ANALYSIS	
SPECIAL REQUIREMENTS (AI RWQCB REPORTING	DDITIONAL COSTS	WAY APPLY)  SAMPLES UNTIL								
SPECIAL INSTRUCTIONS: Required EIM and Cardno Include % Moisture in repo	EDDs. Perform Silica Gel Cle	SPECIAL INSTRUCTIONS. equired EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. clude % Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thompson@cardno.com	s by sample, r	of by analysi: mpson@card	s method. no.com	) H as Gaso H ss Diese				
\II units in mg/kg. Report to: laina.cole@card	no.com, robert.thompson@c	ardno.com, and cameron.penn	₃r-ash@cardno	com .	· <del> u ma</del>	9T - x				nyeaneelin meeteb
LAB: SAMPLE ID	i D	LAG: SAMPLEID Field Point Name SAMPLING	PLING	MAT.	NO. OF CONT	:M moi :2-H9T :2-H9T :0-10			570-67857 Chain of Custody	
771 3 C G		1		XX (	,	WN ;			CONTAINER TYPE	
971-07-0	9 3			<i>y</i>	4	+	5	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	s 4oz un-preserved glass jar	
1 S-75-K6	3 5	8/11/2021	2007		4 4	× ×	2 2	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	6 4cz un-preserved glass jar	
4 S-10-K6				4-	1 4	+	2 2	<ol> <li>Sodium Bisulfate VOAs, 1 Methanol VOA, one 40z un-preserved glass jar</li> <li>Sodium Bisulfate VOAs. 1 Methanol VOA. one 40z un-preserved glass jar</li> </ol>	1 40z un-preserved glass jar 1 40z un-preserved glass jar	
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6 S-25-K8	7		-	S	4	$\vdash$	2	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	
7 S-5-Kg	7			S	4	×	2	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	
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1	7	8/4/2009	+-	9	, 3	+	-	2. Sedium Bisufate V.O.S Metransi V.O.S. one 402 unproductivo grass ja	-for-in-monatorious jar	
12 S-10- (9	2	8/11/2021	1 2555	S	. 4	+-	2	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	
	67	8/18/202		S	4	-	2	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	. 4oz un-preserved glass jar	
_	3/W	8/ ₁ 8 /2021	1 1255	S	4	×	2	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	
16 S-5-M8	WX	8/18/12021		S	4	×	2	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	
	W.	8/18/12021	1105	S	4	-	2	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	4oz un-preserved glass jar	
17 S-10- M		8/18/2021		S	4	-	7	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	46z un-preserved glass jar	
C 12.2710		8/10/2021	_	20	4	× ;	2	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	s 4oz un-preserved glass jar	
67-7-6 1	5	0/18/2021	300	n	,	х (		., ., .,		
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Client: Cardno, Inc

Job Number: 570-67857-1

Login Number: 67857 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Creator: Ramos, Maribel		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-72680-1

Client Project/Site: ExxonMobil/ADC/0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Soma

Authorized for release by: 10/27/2021 9:35:47 AM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS .....

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Cardno, Inc Project/Site: ExxonMobil/ADC/0314476040 Laboratory Job ID: 570-72680-1

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# **Sample Summary**

Job ID: 570-72680-1 Client: Cardno, Inc

Project/Site: ExxonMobil/ADC/0314476040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-72680-1	S-5-C3	Solid	10/12/21 09:20	10/13/21 10:15
570-72680-2	S-7.5-C3	Solid	10/12/21 09:25	10/13/21 10:15
570-72680-3	S-10-C3	Solid	10/12/21 09:30	10/13/21 10:15
570-72680-4	S-12.5-C3	Solid	10/12/21 09:35	10/13/21 10:15
570-72680-5	S-5-D2	Solid	10/12/21 09:55	10/13/21 10:15
570-72680-6	S-7.5-D2	Solid	10/12/21 10:00	10/13/21 10:15
570-72680-7	S-10-D2	Solid	10/12/21 10:05	10/13/21 10:15
570-72680-8	S-2.5-E3	Solid	10/12/21 10:10	10/13/21 10:15
570-72680-9	S-5-E3	Solid	10/12/21 10:15	10/13/21 10:15
570-72680-10	S-7.5-E3	Solid	10/12/21 10:20	10/13/21 10:15
570-72680-11	S-5-E5	Solid	10/12/21 11:00	10/13/21 10:15
570-72680-12	S-7.5-E5	Solid	10/12/21 11:05	10/13/21 10:15
570-72680-13	S-10-E5	Solid	10/12/21 11:10	10/13/21 10:15
570-72680-14	S-12.5-E5	Solid	10/12/21 11:15	10/13/21 10:15
570-72680-15	S-15-E5	Solid	10/12/21 11:20	10/13/21 10:15
570-72680-16	S-15-E6A	Solid	10/12/21 11:25	10/13/21 10:15
570-72680-17	S-15-C8A	Solid	10/12/21 11:30	10/13/21 10:15
570-72680-18	S-15-E8A	Solid	10/12/21 13:10	10/13/21 10:15
570-72680-19	S-17.5-E8A	Solid	10/12/21 13:15	10/13/21 10:15
570-72680-20	S-20-E8A	Solid	10/12/21 13:20	10/13/21 10:15
570-72680-21	Trip Blank	Water	10/12/21 00:00	10/13/21 10:15
570-72680-22	S-20-E8A DUP	Solid	10/12/21 13:25	10/13/21 10:15
570-72680-23	S-15-G8A	Solid	10/12/21 14:15	10/13/21 10:15
570-72680-24	S-17.5-G8A	Solid	10/12/21 14:20	10/13/21 10:15
570-72680-25	S-20-G8A	Solid	10/12/21 14:25	10/13/21 10:15

# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

#### **Qualifiers**

#### **GC Semi VOA**

Qualifier **Qualifier Description** 

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

S1+ Surrogate recovery exceeds control limits, high biased.

# **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

**EDL** Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

**PQL Practical Quantitation Limit** 

**PRES** Presumptive 0C**Quality Control** 

**RER** Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

**RPD** Relative Percent Difference, a measure of the relative difference between two points

**TEF** Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

**TNTC** Too Numerous To Count

**Eurofins Calscience LLC** 

Page 4 of 46

#### Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil/ADC/0314476040

Job ID: 570-72680-1

Job ID: 570-72680-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-72680-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/13/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3° C.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188470. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188568. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188860. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-189079. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: Surrogate recovery for the following sample was outside control limits: S-5-E5 (570-72680-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

Method Moisture: The sample duplicate (DUP) precision for analytical batch 570-186562 was outside control limits. Sample non-homogeneity is suspected.

Method Moisture: The sample duplicate (DUP) precision for analytical batch 570-186575 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-5-C3					Lab Sample ID: 5	70-72680-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	2.1		0.22	mg/Kg	1 ☆ NWTPH-Gx	Total/NA
TPH as Diesel Range	290		33	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	410		33	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-C3					Lab Sample ID: 5	70-72680-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	120		75	mg/Kg	100 🛱 NWTPH-Gx	Total/NA
TPH as Diesel Range	1200		17	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1200		17	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-C3					Lab Sample ID: 5	70-72680-
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	6.6		6.0	mg/Kg	1 ⊕ NWTPH-Dx	Silica Gel
- -						Cleanup
Client Sample ID: S-12.5-C	3				Lab Sample ID: 5	70-72680-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.96		0.27	mg/Kg	1 ☆ NWTPH-Gx	Total/NA
Client Sample ID: S-5-D2					Lab Sample ID: 5	70-72680-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	200		21	mg/Kg	100 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	5200		56	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	3600		56	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-D2					Lab Sample ID: 5	70-72680-
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	540		94	mg/Kg	250 🛱 NWTPH-Gx	Total/NA
TPH as Diesel Range	4600		60	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2200		60	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-D2					Lab Sample ID: 5	70-72680-
No Detections.						
Client Sample ID: S-2.5-E3					Lab Sample ID: 5	70-72680-

TPH as Gasoline (C4-C13) 0.37 0.25 mg/Kg 1 ** NWTPH-Gx Total/NA TPH as Diesel Range 110 10 mg/Kg 2 ** NWTPH-Dx Silica Gel Cleanup

RL

Unit

Dil Fac D Method

Result Qualifier

TPH as Motor Oil Range 220 10 mg/Kg 2 № NWTPH-Dx Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

**Prep Type** 

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-5-E3					Lab Sample ID: 5	70-72680-9
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	18		11	mg/Kg	50 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	2900		120	mg/Kg	20 ☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2100		120	mg/Kg	20 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-E3	3				Lab Sample ID: 57	
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	9.0		5.6	mg/Kg	1 × NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-E5					Lab Sample ID: 57	70-72680-11
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	650		51	mg/Kg	200 × NWTPH-Gx	Total/NA
TPH as Diesel Range	89000		630	mg/Kg	100 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	9200		630	mg/Kg	100 ☆ NWTPH-Dx	Silica Gel Cleanup
- Client Sample ID: S-7.5-E	5				Lab Sample ID: 57	<u>'</u>
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	770		120	mg/Kg	250 × NWTPH-Gx	Total/NA
TPH as Diesel Range	36000		240	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	3100		240	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-E5					Lab Sample ID: 57	0-72680-13
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	740		190	mg/Kg	500 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	22000		220	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	1700		220	mg/Kg	5 🌣 NWTPH-Dx	Cleanup Silica Gel Cleanup
Client Sample ID: S-12.5-E	5				Lab Sample ID: 57	0-72680-14
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	140		19	mg/Kg	20 ☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	27000		160	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2500		160	mg/Kg	10 ⇔ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-15-E5					Lab Sample ID: 57	0-72680-15
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.27		0.22	mg/Kg	1 ☼ NWTPH-Gx	Total/NA
Client Sample ID: S-15-E6	A				Lab Sample ID: 57	0-72680-16

No Detections.

This Detection Summary does not include radiochemical test results.

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-15-C8A Lab Sample ID: 570-72680-17

No Detections.

Client Sample ID: S-15-E8A Lab Sample ID: 570-72680-18

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.4	0.22	mg/Kg	1 🌣	NWTPH-Gx	Total/NA

Client Sample ID: S-17.5-E8A Lab Sample ID: 570-72680-19

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	23	4.9	mg/Kg	20	NWTPH-Gx	Total/NA
TPH as Diesel Range	72	6.0	mg/Kg	1	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	25	6.0	mg/Kg	1	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-20-E8A Lab Sample ID: 570-72680-20

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Motor Oil Range	83	56	mg/Kg	1	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: Trip Blank

Lab Sample ID: 570-72680-21

No Detections.

Client Sample ID: S-20-E8A DUP

Lab Sample ID: 570-72680-22

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type	
TPH as Motor Oil Range	570	530	mg/Kg	10 🛱	NWTPH-Dx	Silica Gel	
						Cleanup	

Client Sample ID: S-15-G8A Lab Sample ID: 570-72680-23

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2200	370	mg/Kg	1000	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	12000	130	mg/Kg	5	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	3000	130	mg/Kg	5	☼	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-17.5-G8A Lab Sample ID: 570-72680-24

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	2900	1100	mg/Kg	1000	□ NWTPH-Gx	Total/NA
TPH as Diesel Range	29000	700	mg/Kg	20	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	7100	700	mg/Kg	20	⇔ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-20-G8A Lab Sample ID: 570-72680-25

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range - DL	730	110	mg/Kg	2 ☆	NWTPH-Dx	Silica Gel
						Cleanup

This Detection Summary does not include radiochemical test results.

Project/Site: ExxonMobil/ADC/0314476040

Lab Sample ID: 570-72680-1 Client Sample ID: S-5-C3

Date Collected: 10/12/21 09:20 Date Received: 10/13/21 10:15

**Matrix: Solid** 

Job ID: 570-72680-1

Method: NWTPH-Gx - No	rthwest - Volatile Petroleum P	roducts (GC)
Δnalvte	Result Qualifier	RI

Unit Prepared Analyzed Dil Fac 10/21/21 13:27 10/22/21 06:49 0.22 mg/Kg TPH as Gasoline (C4-C13)

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 10/21/21 13:27 10/22/21 06:49 4-Bromofluorobenzene (Surr) 71

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifie	r RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	290	33	mg/Kg	<u></u>	10/21/21 20:44	10/22/21 01:40	5
TPH as Motor Oil Range	410	33	mg/Kg	≎	10/21/21 20:44	10/22/21 01:40	5
Surrogato	%Pocovory Qualifio	r limite			Propared	Analyzod	Dil Eac

Prepared Surrogate Analyzed %Recovery Qualifiei <u>10/21/21 20:44</u> <u>10/22/21 01:40</u> n-Octacosane (Surr) 93 50 - 150

Client Sample ID: S-7.5-C3 Lab Sample ID: 570-72680-2

Date Collected: 10/12/21 09:25 Date Received: 10/13/21 10:15

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Dil Fac TPH as Gasoline (C4-C13) 120 mg/Kg 10/21/21 13:27 10/23/21 15:57 100

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 83 50 - 150 10/21/21 13:27 10/23/21 15:57 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1200	17	mg/Kg	☆	10/21/21 20:44	10/22/21 02:00	1
TPH as Motor Oil Range	1200	17	mg/Kg	₩	10/21/21 20:44	10/22/21 02:00	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: S-10-C3 Lab Sample ID: 570-72680-3

50 - 150

Date Collected: 10/12/21 09:30 Date Received: 10/13/21 10:15

n-Octacosane (Surr)

**Matrix: Solid** 

10/21/21 20:44 10/22/21 02:00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	0.30	mg/Kg	<del>*</del>	10/26/21 12:26	10/26/21 18:29	1

Surrogate %Recovery Qualifier I imits Analyzed Dil Fac Prepared 4-Bromofluorobenzene (Surr) 50 - 150 10/26/21 12:26 10/26/21 18:29 114

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Dies	el Range	ND		6.0	mg/Kg	<del></del>	10/21/21 20:44	10/22/21 02:20	1
TPH as Mot	or Oil Range	6.6		6.0	mg/Kg	₩	10/21/21 20:44	10/22/21 02:20	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosan	e (Surr)	96		50 - 150			10/21/21 20:44	10/22/21 02:20	1

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Client: Cardno, Inc

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-12.5-C3

Date Collected: 10/12/21 09:35 Date Received: 10/13/21 10:15

Lab Sample ID: 570-72680-4

**Matrix: Solid** 

Method: NWTPH-Gx - North	west - Volatile	<b>Petroleur</b>	n Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.96		0.27	mg/Kg	<del>-</del>	10/21/21 13:27	10/22/21 08:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		50 - 150			10/21/21 13:27	10/22/21 08:24	1

Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.6	mg/Kg	<u></u>	10/21/21 20:44	10/22/21 02:41	1
TPH as Motor Oil Range	ND	6.6	mg/Kg	₩	10/21/21 20:44	10/22/21 02:41	1
Surrogate	%Recovery Qua	lifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93	50 - 150			10/21/21 20:44	10/22/21 02:41	7

**Client Sample ID: S-5-D2** Lab Sample ID: 570-72680-5 **Matrix: Solid** 

Date Collected: 10/12/21 09:55

Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Nortl	nwest - Volatile	<b>Petroleur</b>	n Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	200		21	mg/Kg	<del>*</del>	10/21/21 13:27	10/23/21 15:33	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			10/21/21 13:27	10/23/21 15:33	100

Method: NWTPH-Dx - Nort	thwest - Semi-Vo	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5200		56	mg/Kg	<u></u>	10/21/21 20:44	10/22/21 03:01	10
TPH as Motor Oil Range	3600		56	mg/Kg	₩	10/21/21 20:44	10/22/21 03:01	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		50 - 150			10/21/21 20:44	10/22/21 03:01	10

Lab Sample ID: 570-72680-6 Client Sample ID: S-7.5-D2 **Matrix: Solid** 

Date Collected: 10/12/21 10:00

Date Received: 10/13/21 10:15

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	540		94	mg/Kg	<del>*</del>	10/21/21 13:27	10/23/21 16:44	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	<u></u>		50 - 150			10/21/21 13:27	10/23/21 16:44	250

Method: NWTPH-Dx - Nort	thwest - Semi-Volat	tile Petroleum Produ	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4600	60	mg/Kg	<del>*</del>	10/21/21 20:44	10/22/21 03:20	10
TPH as Motor Oil Range	2200	60	mg/Kg	₩	10/21/21 20:44	10/22/21 03:20	10
Surrogate n-Octacosane (Surr)	%Recovery Qua	<b>Limits</b> 50 - 150			Prepared 10/21/21 20:44	Analyzed 10/22/21 03:20	Dil Fac

Client: Cardno, Inc

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-10-D2

Date Collected: 10/12/21 10:05 Date Received: 10/13/21 10:15

Lab Sample ID: 570-72680-7

**Matrix: Solid** 

Method: NWTPH-Gx - Nort	hwest - Volatile Petroleum P	roducts (GC)
Analyte	Result Qualifier	RL

Unit D Prepared Analyzed Dil Fac 10/21/21 13:27 10/22/21 13:55 TPH as Gasoline (C4-C13) ND 0.23 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 60 50 - 150 10/21/21 13:27 10/22/21 13:55 4-Bromofluorobenzene (Surr)

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.3	mg/Kg	— <u></u>	10/21/21 20:44	10/22/21 03:41	1
TPH as Motor Oil Range	ND	6.3	mg/Kg	☼	10/21/21 20:44	10/22/21 03:41	1
Surrogato	% Pocovory Qualifier	Limite			Propared	Analyzod	Dil Ess

Prepared Surrogate Analyzed %Recovery Qualifiei 10/21/21 20:44 10/22/21 03:41 n-Octacosane (Surr) 96 50 - 150

Client Sample ID: S-2.5-E3 Lab Sample ID: 570-72680-8 Date Collected: 10/12/21 10:10 **Matrix: Solid** 

Date Received: 10/13/21 10:15

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Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

motilous itti ii Ox ittorumoot	voidino i on o	noum i roudoto (GG)					
Analyte	Result Qualifie	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.37	0.25	mg/Kg	₽	10/21/21 13:27	10/22/21 09:58	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 10/21/21 13:27 10/22/21 09:58 4-Bromofluorobenzene (Surr) 93 50 - 150

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	110	10	mg/Kg	— <u></u>	10/21/21 20:44	10/26/21 12:16	2
TPH as Motor Oil Range	220	10	mg/Kg	≎	10/21/21 20:44	10/26/21 12:16	2
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: S-5-E3 Lab Sample ID: 570-72680-9 **Matrix: Solid** 

50 - 150

Date Collected: 10/12/21 10:15

n-Octacosane (Surr)

Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	18	11	mg/Kg	≎	10/21/21 13:27	10/23/21 15:10	50

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 50 - 150 <u>10/21/21 13:27</u> <u>10/23/21 15:10</u> 4-Bromofluorobenzene (Surr) 78

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	· RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2900	120	mg/Kg	₩	10/21/21 20:44	10/22/21 04:22	20
TPH as Motor Oil Range	2100	120	mg/Kg	☼	10/21/21 20:44	10/22/21 04:22	20
Surrogate	%Recovery Qualifier	· Limits			Prepared	Analvzed	Dil Fac
n-Octacosane (Surr)	107	50 - 150			10/21/21 20:44	10/22/21 04:22	20

**Eurofins Calscience LLC** 

10/21/21 20:44 10/26/21 12:16

Client Comple ID: C 7 E E2

Client Sample ID: S-7.5-E3

Lab Sample ID: 570-72680-10

Date Collected: 10/12/21 10:20

Matrix: Solid

Date Received: 10/13/21 10:15

Method: NWTPH-Gx - North	nwest - Volatile	Petroleur	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.21	mg/Kg	<del>*</del>	10/21/21 13:27	10/22/21 15:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150			10/21/21 13:27	10/22/21 15:18	1

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND		5.6	mg/Kg	<u></u>	10/21/21 20:44	10/22/21 04:41	
TPH as Motor Oil Range	9.0		5.6	mg/Kg	₩	10/21/21 20:44	10/22/21 04:41	1
Surrogate	%Recovery G	Qualifier	Limits			Prepared	Analyzed	Dil Fa
n-Octacosane (Surr)	97		50 - 150			10/21/21 20:44	10/22/21 04:41	

Client Sample ID: S-5-E5

Lab Sample ID: 570-72680-11

Matrix: Solid

Date Received: 10/13/21 10:15

Method: NWTPH-Gx - North			n Products (GC	<del>;</del> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	650		51	mg/Kg	<u></u>	10/21/21 13:27	10/23/21 16:21	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			10/21/21 13:27	10/23/21 16:21	200

Method: NWTPH-Dx - Nort	thwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	89000		630	mg/Kg	<u></u>	10/21/21 20:44	10/22/21 05:02	100
TPH as Motor Oil Range	9200		630	mg/Kg	₩	10/21/21 20:44	10/22/21 05:02	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	172	S1+	50 - 150			10/21/21 20:44	10/22/21 05:02	100

Client Sample ID: S-7.5-E5

Date Collected: 10/12/21 11:05

Lab Sample ID: 570-72680-12

Matrix: Solid

Date Collected: 10/12/21 11:05 Date Received: 10/13/21 10:15

4-Bromofluorobenzene (Surr)

	moot rolatilo i otroloai	n Products (GC	<i>)</i>				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	770	120	mg/Kg	≎	10/21/21 13:27	10/23/21 17:08	250
Surrogate	%Recovery Qualifier	Limits	0 0		Prepared	Analyzed	Di

50 - 150

78

Method: NWTPH-Dx - Nort			• •	Gel (	•		
Analyte	Result Qual	ifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	36000	240	mg/Kg	<u></u>	10/21/21 20:44	10/22/21 11:27	5
TPH as Motor Oil Range	3100	240	mg/Kg	☼	10/21/21 20:44	10/22/21 11:27	5
Surrogate	%Recovery Qual	lifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94	50 - 150			10/21/21 20:44	10/22/21 11:27	5

10/21/21 13:27 10/23/21 17:08

Client: Cardno, Inc

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-10-E5

Date Collected: 10/12/21 11:10 Date Received: 10/13/21 10:15

Lab Sample ID: 570-72680-13

**Matrix: Solid** 

Method: NWTPH-Gx - No	rthwest - Volatile Petroleum I	Products (GC)
	D 14 0 110	

Allalyte	Result Qualifier	KL	Unit	U	riepaieu	Allalyzeu	DII Fac
TPH as Gasoline (C4-C13)	740	190	mg/Kg	₩	10/21/21 13:27	10/23/21 17:31	500
Surrogato	% Possyery Qualifier	Limite			Propared	Analyzod	Dil Esc

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 84 50 - 150 10/21/21 13:27 10/23/21 17:31 500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	22000	220	mg/Kg	<u></u>	10/21/21 20:44	10/22/21 11:47	5
TPH as Motor Oil Range	1700	220	mg/Kg	₩	10/21/21 20:44	10/22/21 11:47	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analvzed	Dil Fac

10/21/21 20:44 10/22/21 11:47 n-Octacosane (Surr) 50 - 150

Client Sample ID: S-12.5-E5

Date Collected: 10/12/21 11:15 Date Received: 10/13/21 10:15

Lab Sample ID: 570-72680-14

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualific	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	140	19	mg/Kg	<del></del>	10/21/21 13:27	10/25/21 20:49	20

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 126 50 - 150 10/21/21 13:27 10/25/21 20:49

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Method. NWTFH-DX - NO	liiwest - Seiiii-voialile Pei	li bieuiii Fibuuc	is (GC) - Silica	Ger	Jieanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	27000	160	mg/Kg	— <u></u>	10/21/21 20:44	10/22/21 12:07	10
TPH as Motor Oil Range	2500	160	mg/Kg	₩	10/21/21 20:44	10/22/21 12:07	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		50 - 150			10/21/21 20:44	10/22/21 12:07	10

Client Sample ID: S-15-E5 Lab Sample ID: 570-72680-15 **Matrix: Solid** 

Date Collected: 10/12/21 11:20 Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

A t. d.		n i roddoto (GG)	1114	_	B	A	D
Analyte	Result Qualifier	KL_	Unit	บ	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.27	0.22	mg/Kg	₩	10/21/21 13:27	10/25/21 19:12	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed 50 - 150 10/21/21 13:27 10/25/21 19:12 4-Bromofluorobenzene (Surr) 114

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.5	mg/Kg	₩	10/21/21 20:44	10/22/21 07:07	1
TPH as Motor Oil Range	ND		6.5	mg/Kg	₩	10/21/21 20:44	10/22/21 07:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 50 - 150 10/21/21 20:44 10/22/21 07:07 Client: Cardno, Inc

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-15-E6A

Lab Sample ID: 570-72680-16

Unit

Prepared

Analyzed

Dil Fac

Date Collected: 10/12/21 11:25 **Matrix: Solid** Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.22	mg/Kg	₩	10/21/21 13:27	10/25/21 19:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		50 - 150			10/21/21 13:27	10/25/21 19:36	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result (	Qualifier RL	. Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND	6.0	mg/Kg	<del></del>	10/21/21 20:44	10/22/21 07:26	1
TPH as Motor Oil Range	ND	6.0	mg/Kg	₩	10/21/21 20:44	10/22/21 07:26	1
Surrogate	%Recovery	Qualifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98	50 - 150	-		10/21/21 20:44	10/22/21 07:26	1

Client Sample ID: S-15-C8A Lab Sample ID: 570-72680-17 **Matrix: Solid** 

Date Collected: 10/12/21 11:30

Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

TPH as Gasoline (C4-C13)	ND	0.97	mg/Kg ⇔	10/21/21 13:27	10/22/21 16:52	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	50 - 150		10/21/21 13:27	10/22/21 16:52	

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Result Qualifier

ш									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	TPH as Diesel Range	ND		24	mg/Kg	☆	10/21/21 20:44	10/22/21 07:46	1
	TPH as Motor Oil Range	ND		24	mg/Kg	₩	10/21/21 20:44	10/22/21 07:46	1
	Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 10/21/21 20:44	Analyzed 10/22/21 07:46	Dil Fac

Client Sample ID: S-15-E8A Lab Sample ID: 570-72680-18 **Matrix: Solid** 

Date Collected: 10/12/21 13:10

Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.4	0.22	mg/Kg	≎	10/21/21 13:27	10/22/21 17:15	1
, i							
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71	50 - 150			10/21/21 13:27	10/22/21 17:15	

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.1	mg/Kg	☼	10/21/21 20:44	10/22/21 08:07	1
TPH as Motor Oil Range	ND	6.1	mg/Kg	₽	10/21/21 20:44	10/22/21 08:07	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98	50 - 150			10/21/21 20:44	10/22/21 08:07	1

Client Sample ID: S-17.5-E8A

Date Collected: 10/12/21 13:15 Date Received: 10/13/21 10:15 Lab Sample ID: 570-72680-19

**Matrix: Solid** 

Job ID: 570-72680-1

Analyte	Result Qu	ualitier RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	23	4.9	mg/Kg	<del>*</del>	10/21/21 13:27	10/25/21 22:02	20	
Surrogate	%Recovery Qu	ualifier Limits			Prepared	Analyzed	Dil Fac	

4-Bromofluorobenzene (Surr) 50 - 150 10/21/21 13:27 10/25/21 22:02 90

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

				/				
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	72		6.0	mg/Kg	— <u>—</u>	10/21/21 20:44	10/22/21 08:28	1
TPH as Motor Oil Range	25		6.0	mg/Kg	≎	10/21/21 20:44	10/22/21 08:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

10/21/21 20:44 10/22/21 08:28 n-Octacosane (Surr) 95 50 - 150

Client Sample ID: S-20-E8A Lab Sample ID: 570-72680-20 Date Collected: 10/12/21 13:20

Date Received: 10/13/21 10:15

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL ,	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	2.3	mg/Kg	☼	10/21/21 13:27	10/25/21 20:01	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed 10/21/21 13:27 10/25/21 20:01 4-Bromofluorobenzene (Surr) 80 50 - 150

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		56	mg/Kg	<u></u>	10/21/21 20:44	10/22/21 08:48	1
TPH as Motor Oil Range	83		56	mg/Kg	☼	10/21/21 20:44	10/22/21 08:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94		50 - 150			10/21/21 20:44	10/22/21 08:48	1

**Client Sample ID: Trip Blank** Lab Sample ID: 570-72680-21 **Matrix: Water** 

Date Collected: 10/12/21 00:00

Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Pet	malarius Duadriata (CC)
Nietnon: NVV i PH-C-X - Northwest - Volatile Pet	roleilm Products (G.)

Analyte	Result	Qualifier	RL	ı	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100		ug/L			10/19/21 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

10/19/21 21:49 4-Bromofluorobenzene (Surr) 50 - 150 56

Client Sample ID: S-20-E8A DUP

Date Collected: 10/12/21 13:25 **Matrix: Solid** 

Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Northwest	<ul> <li>Volatile Petroleum Products (G0</li> </ul>	2)
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Analyte	Result	Qualifier	RL	U	Init	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		1.9	m	ng/Kg	₩	10/21/21 13:27	10/22/21 18:26	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 10/21/21 13:27 10/22/21 18:26 4-Bromofluorobenzene (Surr) 54 50 - 150

**Eurofins Calscience LLC** 

Lab Sample ID: 570-72680-22

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-20-E8A DUP

Date Collected: 10/12/21 13:25 Date Received: 10/13/21 10:15

Client: Cardno, Inc

Lab Sample ID: 570-72680-22

**Matrix: Solid** 

Method: NWTPH-Dx	- Northwest - Semi-Volatile Petrole	eum Produc	ts (GC) - Silica	Gel C	eanup
Analyta	Popult Qualifier	DI	l Init	n	Droporod

Analyte	Result Qualifier	RL	Unit	_ <u>D</u>	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND	530	mg/Kg	₩	10/21/21 21:31	10/22/21 22:23	10
TPH as Motor Oil Range	570	530	mg/Kg	≎	10/21/21 21:31	10/22/21 22:23	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92	50 - 150			10/21/21 21:31	10/22/21 22:23	10

Client Sample ID: S-15-G8A Lab Sample ID: 570-72680-23 Date Collected: 10/12/21 14:15 **Matrix: Solid** 

Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Unit Result Qualifier Analyzed 2200 370 TPH as Gasoline (C4-C13) mg/Kg 1000 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 73 50 - 150 10/21/21 13:27 10/23/21 18:19 1000 4-Bromofluorobenzene (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

method: WWTT IT BX - Northwest - Cellin-Volutile I etholedin I Toddets (CO) - Cilica Cel Gledidp								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	TPH as Diesel Range	12000	130	mg/Kg	<del> </del>	10/21/21 21:31	10/22/21 22:43	5
	TPH as Motor Oil Range	3000	130	mg/Kg	₩	10/21/21 21:31	10/22/21 22:43	5
	Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
	n-Octacosane (Surr)	106	50 - 150			10/21/21 21:31	10/22/21 22:43	5

Lab Sample ID: 570-72680-24 Client Sample ID: S-17.5-G8A

Date Collected: 10/12/21 14:20 Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

modifical fitti ii ox fitordime	ot volutile	, , ott olou.	m i rodadoto (GG)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2900		1100	mg/Kg	<del>-</del>	10/21/21 13:27	10/25/21 21:38	1000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150			10/21/21 13:27	10/25/21 21:38	1000

vietnod: NWTPH-Dx - Northwest - Semi-volatile Petroleum Products (GC) - Silica Gel Cleanup									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
TPH as Diesel Range	29000	700	mg/Kg	☼	10/21/21 21:31	10/22/21 23:04	20		
TPH as Motor Oil Range	7100	700	mg/Kg	₩	10/21/21 21:31	10/22/21 23:04	20		
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	105	50 - 150			10/21/21 21:31	10/22/21 23:04	20		

Client Sample ID: S-20-G8A Lab Sample ID: 570-72680-25 **Matrix: Solid** 

Date Collected: 10/12/21 14:25 Date Received: 10/13/21 10:15

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (	(GC)	
	. – – ,	/

moundar restrict to ox moralises	Totalilo i oli ottoli						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND —	1.6	mg/Kg	<u></u>	10/21/21 13:27	10/25/21 20:25	1

**Matrix: Solid** 

# **Client Sample Results**

Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-20-G8A Lab Sample ID: 570-72680-25

Date Collected: 10/12/21 14:25 Matrix: Solid

Date Received: 10/13/21 10:15

Surrogate	%Recovery 0	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76	50 - 15	0 10/21/21 13:27	10/25/21 20:25	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	110	mg/Kg	<u></u>	10/21/21 21:31	10/26/21 13:02	2
TPH as Motor Oil Range	730	110	mg/Kg	☼	10/21/21 21:31	10/26/21 13:02	2
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93	50 - 150			10/21/21 21:31	10/26/21 13:02	2

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## **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-72680-1	S-5-C3	71	
570-72680-2	S-7.5-C3	83	
570-72680-3	S-10-C3	114	
570-72680-3 MS	S-10-C3	123	
570-72680-3 MSD	S-10-C3	128	
570-72680-4	S-12.5-C3	89	
570-72680-5	S-5-D2	75	
570-72680-6	S-7.5-D2	78	
570-72680-7	S-10-D2	60	
570-72680-8	S-2.5-E3	93	
570-72680-9	S-5-E3	78	
570-72680-10	S-7.5-E3	84	
570-72680-11	S-5-E5	75	
570-72680-12	S-7.5-E5	78	
570-72680-13	S-10-E5	84	
570-72680-14	S-12.5-E5	126	
570-72680-15	S-15-E5	114	
570-72680-16	S-15-E6A	111	
570-72680-17	S-15-C8A	69	
570-72680-17 570-72680-18	S-15-E8A	71	
570-72680-19	S-17.5-E8A	90	
570-72680-19	S-20-E8A	80	
570-72680-20 570-72680-22	S-20-E8A DUP	54	
		54 73	
570-72680-23	S-15-G8A		
570-72680-24	S-17.5-G8A	94	
570-72680-25	S-20-G8A	76	
_CS 570-188305/31	Lab Control Sample	93	
LCS 570-188470/4	Lab Control Sample	104	
LCS 570-188568/3	Lab Control Sample	73	
LCS 570-188860/3	Lab Control Sample	86	
LCS 570-189079/3	Lab Control Sample	120	
LCS 570-189399/1-A	Lab Control Sample	122	
_CSD 570-188305/32	Lab Control Sample Dup	103	
LCSD 570-188470/5	Lab Control Sample Dup	111	
LCSD 570-188568/4	Lab Control Sample Dup	86	
LCSD 570-188860/4	Lab Control Sample Dup	108	
_CSD 570-189079/4	Lab Control Sample Dup	123	
LCSD 570-189399/2-A	Lab Control Sample Dup	122	
MB 570-188305/33	Method Blank	74	
MB 570-188470/6	Method Blank	98	
MB 570-188568/5	Method Blank	82	
MB 570-188860/6	Method Blank	69	
MB 570-189079/5	Method Blank	95	
MB 570-189079/6	Method Blank	94	
MB 570-189399/3-A	Method Blank	92	
Currogate Lagand			
Surrogate Legend			

### **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Water** Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-72680-21	Trip Blank	56	
570-72969-D-3 MS	Matrix Spike	89	
570-72969-D-3 MSD	Matrix Spike Duplicate	91	
LCS 570-187662/3	Lab Control Sample	91	
LCSD 570-187662/4	Lab Control Sample Dup	87	
MB 570-187662/5	Method Blank	56	
Surrogate Legend			
BFB = 4-Bromofluorok	penzene (Surr)		

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

			Demont Commonte Bosses (Accordence Limite)
		OTCSN	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(50-150)	
570-72680-1	S-5-C3	93	
570-72680-1 MS	S-5-C3	89	
570-72680-1 MS	S-5-C3	94	
570-72680-1 MSD	S-5-C3	98	
570-72680-1 MSD	S-5-C3	99	
570-72680-2	S-7.5-C3	74	
570-72680-3	S-10-C3	96	
570-72680-4	S-12.5-C3	93	
570-72680-5	S-5-D2	104	
570-72680-6	S-7.5-D2	103	
570-72680-7	S-10-D2	96	
570-72680-8	S-2.5-E3	75	
570-72680-9	S-5-E3	107	
570-72680-10	S-7.5-E3	97	
570-72680-11	S-5-E5	172 S1+	
570-72680-12	S-7.5-E5	94	
570-72680-13	S-10-E5	96	
570-72680-14	S-12.5-E5	101	
570-72680-15	S-15-E5	95	
570-72680-16	S-15-E6A	98	
570-72680-17	S-15-C8A	97	
570-72680-18	S-15-E8A	98	
570-72680-19	S-17.5-E8A	95	
570-72680-20	S-20-E8A	94	
570-72680-22	S-20-E8A DUP	92	
570-72680-23	S-15-G8A	106	
570-72680-24	S-17.5-G8A	105	
570-72680-25 - DL	S-20-G8A	93	
570-72859-A-22-A MS	Matrix Spike	106	
570-72859-A-22-B MSD	Matrix Spike Duplicate	114	
570-72859-A-22-C MS	Matrix Spike	104	
570-72859-A-22-D MSD	Matrix Spike Duplicate	114	
LCS 570-188370/2-A	Lab Control Sample	94	
LCS 570-188370/6-A	Lab Control Sample	92	
LCS 570-188375/2-A	Lab Control Sample	102	

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### **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Prep Type: Silica Gel Cleanup **Matrix: Solid** 

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
LCS 570-188375/6-A	Lab Control Sample	102	
LCSD 570-188370/3-A	Lab Control Sample Dup	97	
LCSD 570-188370/7-A	Lab Control Sample Dup	97	
LCSD 570-188375/3-A	Lab Control Sample Dup	99	
LCSD 570-188375/7-A	Lab Control Sample Dup	103	
MB 570-188370/1-A	Method Blank	92	
MB 570-188375/1-A	Method Blank	103	
Surrogate Legend			

**Eurofins Calscience LLC** 

10/19/21 18:52

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

**Prep Type: Total/NA** 

Project/Site: ExxonMobil/ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)
-----------------------------------------------------------------

Lab Sample ID: MB 570-187662/5 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

Client: Cardno, Inc

**Analysis Batch: 187662** 

TPH as Gasoline (C4-C13)

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 100

ug/L

ND MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 56 50 - 150 10/19/21 18:52

Lab Sample ID: LCS 570-187662/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2130 2099 ug/L 76 - 128

LCS LCS %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr) 50 - 150

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-187662/4 Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2130 2111 ug/L 76 - 128

LCSD LCSD Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr) 87 50 - 150

Lab Sample ID: 570-72969-D-3 MS

**Matrix: Water** 

**Analysis Batch: 187662** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Limits Analyte Result Qualifier Unit %Rec TPH as Gasoline (C4-C13) ND 2130 2070 ug/L 97 69 - 132

MS MS %Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 89

Lab Sample ID: 570-72969-D-3 MSD

**Matrix: Water** 

**Analysis Batch: 187662** 

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Unit Limits RPD Limit Analyte %Rec 2130 TPH as Gasoline (C4-C13) ND 2120 ug/L 100 69 - 132

MSD MSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 91

Project/Site: ExxonMobil/ADC/0314476040

Lab Sample ID: MB 570-188305/33 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Client: Cardno, Inc

**Analysis Batch: 188305** 

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 10/22/21 00:32

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 10/22/21 00:32

Lab Sample ID: LCS 570-188305/31 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 188305

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.13 1.773 mg/Kg 83 77 - 128

LCS LCS Limits

%Recovery Qualifier 4-Bromofluorobenzene (Surr) 50 - 150

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-188305/32 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 188305** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.13 1.754 mg/Kg 82 77 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 103 50 - 150

Lab Sample ID: MB 570-188470/6

**Matrix: Solid** 

**Analysis Batch: 188470** 

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.25 mg/Kg 10/22/21 12:19

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 10/22/21 12:19 50 - 150 98

Lab Sample ID: LCS 570-188470/4

**Matrix: Solid** 

**Analysis Batch: 188470** 

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Analyte 2.12 2.305 77 - 128 TPH as Gasoline (C4-C13) mg/Kg 109

LCS LCS

Surrogate %Recovery Qualifier Limits 104 50 - 150 4-Bromofluorobenzene (Surr)

**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

**Prep Type: Total/NA** 

Prep Type: Total/NA

Project/Site: ExxonMobil/ADC/0314476040

Lab Sample ID: LCSD 570-188470/5

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Matrix: Solid** 

Client: Cardno, Inc

**Analysis Batch: 188470** 

	Spil	e LCSD	LCSD				%Rec.		RPD	
Analyte	Adde	d Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
TPH as Gasoline (C4-C13)	2.1	2 2.265		mg/Kg		107	77 - 128	2	16	

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 111

Lab Sample ID: MB 570-188568/5 **Client Sample ID: Method Blank** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 188568** 

	MB	INIR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/22/21 14:32	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150	10/22/21 14:32	

Lab Sample ID: LCS 570-188568/3 **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 188568** 

-	Spil	e LCS	LCS				%Rec.	
Analyte	Adde	d Resul	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	2.	3 1.86		mg/Kg		87	77 - 128	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 73 50 - 150

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-188568/4

**Matrix: Solid** 

**Analysis Batch: 188568** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.13	1.898		mg/Kg		89	77 - 128	2	16

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 86

Lab Sample ID: MB 570-188860/6 Client Sample ID: Method Blank

**Matrix: Solid** 

Analysis Batch: 188860								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/23/21 14:17	20
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150				10/23/21 14:17	20

**Eurofins Calscience LLC** 

Prep Type: Total/NA

Prep Type: Total/NA

Client: Cardno, Inc

Project/Site: ExxonMobil/ADC/0314476040

Prep Type: Total/NA

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-188860/3 **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

Analysis Batch: 188860

Spike LCS LCS %Rec. Result Qualifier Added Limits Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.12 1.932 mg/Kg 91 77 - 128

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-188860/4 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 188860

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.12 1.856 mg/Kg 87 77 - 128 4

LCSD LCSD

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 108

Client Sample ID: Method Blank Lab Sample ID: MB 570-189079/5 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 189079** 

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.25  $\overline{\mathsf{ND}}$ mg/Kg 10/25/21 14:30

MB MB

MB MB

Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 95 50 - 150 10/25/21 14:30

Lab Sample ID: MB 570-189079/6

**Matrix: Solid** 

**Analysis Batch: 189079** 

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 5.0 mg/Kg 10/25/21 14:54

MB MB Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 10/25/21 14:54 94

Lab Sample ID: LCS 570-189079/3

**Matrix: Solid** 

Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Analysis Batch: 189079** 

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Analyte 2.13 77 - 128 TPH as Gasoline (C4-C13) 2.184 mg/Kg 102

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 120

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**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Project/Site: ExxonMobil/ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570-189079/4 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 189079** 

RPD Spike LCSD LCSD %Rec. Result Qualifier Added Unit %Rec Limits RPD Limit Analyte TPH as Gasoline (C4-C13) 2.13 2.216 mg/Kg 104 77 - 128 16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 123 50 - 150

**Client Sample ID: Method Blank** Lab Sample ID: MB 570-189399/3-A

**Matrix: Solid** 

Analysis Batch: 189364

MB MB Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 10/26/21 12:26 10/26/21 14:13

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 10/26/21 12:26 10/26/21 14:13 92 50 - 150

Lab Sample ID: LCS 570-189399/1-A

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 189364 Prep Batch: 189399** Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.12 2.301 mg/Kg 108 77 - 128

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 122 50 - 150

Lab Sample ID: LCSD 570-189399/2-A

**Matrix: Solid** 

**Analysis Batch: 189364** 

**Prep Batch: 189399** Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Gasoline (C4-C13) 2.13 2.234 105 77 - 128 mg/Kg

LCSD LCSD

ND

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150 122

Lab Sample ID: 570-72680-3 MS

**Matrix: Solid** 

**Analysis Batch: 189364** 

TPH as Gasoline (C4-C13)

**Prep Batch: 189399** Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Unit D Limits Analyte %Rec

2.069

mg/Kg

2.50

MS MS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 123

Eurofins Calscience LLC

10/27/2021

Prep Type: Total/NA

**Prep Batch: 189399** 

**Prep Type: Total/NA** 

Client Sample ID: S-10-C3

48 - 114

77

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Project/Site: ExxonMobil/ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-72680-3 MSD Client Sample ID: S-10-C3

**Matrix: Solid** 

Prep Type: Total/NA Analysis Batch: 189364 **Prep Batch: 189399** 

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Result Qualifier Added Limits RPD Limit Analyte Unit D %Rec TPH as Gasoline (C4-C13) ND 2.50 2.079 mg/Kg 77 48 - 114 0 23

MSD MSD

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 128 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-188370/1-A Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup

**Matrix: Solid** 

**Analysis Batch: 188373 Prep Batch: 188370** 

MB MB Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range ND 5.0 mg/Kg 10/21/21 20:44 10/21/21 22:40 TPH as Motor Oil Range ND 5.0 10/21/21 20:44 10/21/21 22:40 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 92 50 - 150 10/21/21 20:44 10/21/21 22:40 n-Octacosane (Surr)

Lab Sample ID: LCS 570-188370/2-A

**Matrix: Solid** 

**Analysis Batch: 188373** 

**Prep Batch: 188370** Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 370.3 mg/Kg 93 76 - 126

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150

Lab Sample ID: LCS 570-188370/6-A

**Matrix: Solid** 

**Analysis Batch: 188373** 

**Prep Batch: 188370** Spike LCS LCS %Rec. Added Result Qualifier Unit Limits %Rec TPH as Motor Oil (C17-C44) 400 404.9 101 71 - 139 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150 92

Lab Sample ID: LCSD 570-188370/3-A

**Matrix: Solid** 

**Prep Type: Silica Gel Cleanup Analysis Batch: 188373 Prep Batch: 188370** LCSD LCSD Spike %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit TPH as Diesel (C10-C28) 400 76 - 126 363.6 mg/Kg 91

LCSD LCSD

%Recovery Qualifier Limits Surrogate n-Octacosane (Surr) 50 - 150 97

**Eurofins Calscience LLC** 

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup

Prep Type: Silica Gel Cleanup

Project/Site: ExxonMobil/ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 188373		Client Sample ID: Lab Contro Prep Type: Silica Prep E							anup		
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)			400	420.3		mg/Kg		105	71 - 139	4	20
	LCSD	LCSD									
Surrogate n-Octacosane (Surr)	%Recovery 97	Qualifier	Limits 50 - 150								

Lab Sample ID: 570-7268 Matrix: Solid	0-1 MS						P		•	e ID: S-5-C3 Gel Cleanup
Analysis Batch: 188373									•	tch: 1883 <mark>70</mark>
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	360		479	636.3		mg/Kg	≎	58	37 - 175	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	89		50 - 150							

Lab Sample ID: 5/0-/2680	)-1 MS							CII	ent Sample ID: S-5-C
Matrix: Solid							P	rep Ty	pe: Silica Gel Cleanu
Analysis Batch: 188373									Prep Batch: 18837
	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
TPH as Motor Oil (C17-C44)	550		514	1188		mg/Kg	≎	124	71 - 174
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
n-Octacosane (Surr)	94		50 - 150						

Lab Sample ID: 570-72680	Sample ID: 570-72680-1 MSD								Client Sample ID: S-5-C3					
Matrix: Solid							Prep Type: Silica Gel Cleanup							
Analysis Batch: 188373									Prep Ba	itch: 18	38370			
_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
TPH as Diesel (C10-C28)	360		525	774.2		mg/Kg	— <u>~</u>	79	37 - 175	20	20			
	MSD	MSD												
Surrogate	%Recovery	Qualifier	Limits											
n-Octacosane (Surr)	98		50 - 150											

Lab Sample ID: 570-7268	Lab Sample ID: 570-72680-1 MSD										Client Sample ID: S-5-C3						
Matrix: Solid							P	rep Ty	oe: Silica	Gel Cle	anup						
Analysis Batch: 188373									Prep Ba	atch: 18	88370						
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD						
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit						
TPH as Motor Oil (C17-C44)	550		531	1124		mg/Kg	<del>-</del>	108	71 - 174	6	20						
	MSD	MSD															
Surrogate	%Recovery	Qualifier	Limits														
n-Octacosane (Surr)	99		50 - 150														

**Eurofins Calscience LLC** 

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Project/Site: ExxonMobil/ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-188375/1-A

**Matrix: Solid** 

TPH as Diesel Range

TPH as Motor Oil Range

Analyte

**Analysis Batch: 188558** 

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup

**Prep Batch: 188375** RL Unit D Analyzed Dil Fac Prepared

mg/Kg ND 5.0 mg/Kg 10/21/21 21:31 10/22/21 19:17

MB MB

MB MB Result Qualifier

ND

%Recovery Qualifier Surrogate I imite Prepared Dil Fac Analyzed n-Octacosane (Surr) 103 50 - 150

5.0

10/21/21 21:31 10/22/21 19:17

10/21/21 21:31 10/22/21 19:17

Lab Sample ID: LCS 570-188375/2-A

Lab Sample ID: LCS 570-188375/6-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 188558** 

Analysis Batch: 188558

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

**Prep Batch: 188375** 

Spike LCS LCS %Rec. Added Limits Result Qualifier D %Rec Analyte Unit 76 - 126 TPH as Diesel (C10-C28) 400 426.9 mg/Kg 107

LCS LCS

%Recovery Surrogate Qualifier Limits 50 - 150 n-Octacosane (Surr) 102

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

**Prep Batch: 188375** 

Spike LCS LCS %Rec. Result Qualifier Added Limits Unit %Rec Analyte TPH as Motor Oil (C17-C44) 408.0 400 mg/Kg 102 71 - 139

LCS LCS

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 102 50 - 150

Lab Sample ID: LCSD 570-188375/3-A

**Matrix: Solid** 

Analysis Batch: 188558

Client Sample ID: Lab Control Sample Dup

Prep Type: Silica Gel Cleanup **Prep Batch: 188375** 

> RPD %Rec.

Spike Added Limits Result Qualifier Unit %Rec **RPD** Limit 400 413.1 103 76 - 126 TPH as Diesel (C10-C28) mg/Kg

LCSD LCSD

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 99 50 - 150

Lab Sample ID: LCSD 570-188375/7-A

**Matrix: Solid** 

**Analysis Batch: 188558** 

Client Sample ID: Lab Control Sample Dup

**Prep Type: Silica Gel Cleanup Prep Batch: 188375** 

RPD %Rec

Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit Limits RPD Limit TPH as Motor Oil (C17-C44) 400 420.1 mg/Kg 105 71 - 139

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 103 50 - 150

**Eurofins Calscience LLC** 

Project/Site: ExxonMobil/ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Added

Limits

50 - 150

Spike

Added

Spike

Added

Spike

Added

463

458

Lab Sample ID: 570-72859-A-22-A MS

**Matrix: Solid** 

Analyte

Surrogate

Surrogate

Analyte

**Analysis Batch: 188558** 

TPH as Diesel (C10-C28)

**Client Sample ID: Matrix Spike Prep Type: Silica Gel Cleanup** 

**Prep Batch: 188375** 

Limits %Rec

%Rec.

20

37 - 175

Lab Sample ID: 570-72859-A-22-B MSD

**Matrix: Solid** 

n-Octacosane (Surr)

**Analysis Batch: 188558** 

TPH as Diesel (C10-C28)

n-Octacosane (Surr)

**Matrix: Solid** 

**Client Sample ID: Matrix Spike Duplicate** Prep Type: Silica Gel Cleanup

**Prep Batch: 188375** 

RPD

%Rec.

%Rec Limits RPD Limit

37 - 175

443 5648 4 mg/Kg 31

Result Qualifier

MSD MSD

MS MS

5600 4

Result Qualifier

Unit

Unit

Unit

Unit

mg/Kg

D

mg/Kg

D

MSD MSD

5500

Sample Sample

Result Qualifier

Sample Sample

MS MS

Qualifier

5500

106

%Recovery

Result Qualifier

%Recovery Qualifier Limits 50 - 150 114

> **Client Sample ID: Matrix Spike Prep Type: Silica Gel Cleanup**

**Prep Batch: 188375** 

%Rec.

%Rec

Limits -3

71 - 174

439 4358 mg/Kg

MS MS

MSD MSD

5253 4

Result Qualifier

Result Qualifier

MS MS

Sample Sample

Qualifier

Result

4400

Qualifier Surrogate Limits %Recovery n-Octacosane (Surr) 104 50 - 150

Lab Sample ID: 570-72859-A-22-D MSD

Lab Sample ID: 570-72859-A-22-C MS

**Matrix: Solid** 

Analyte

**Analysis Batch: 188558** 

TPH as Motor Oil (C17-C44)

**Analysis Batch: 188558** 

TPH as Motor Oil (C17-C44)

Client Sample ID: Matrix Spike Duplicate

Prep Type: Silica Gel Cleanup

**Prep Batch: 188375** 

%Rec. **RPD** 

Limits Limit %Rec RPD 190 71 - 174 19 20

MSD MSD

4400

Sample Sample

Result Qualifier

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 114

**Eurofins Calscience LLC** 

Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

### **GC VOA**

#### Analysis Batch: 187662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-21	Trip Blank	Total/NA	Water	NWTPH-Gx	
MB 570-187662/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 570-187662/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 570-187662/4	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MS	Matrix Spike	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	NWTPH-Gx	

#### **Prep Batch: 188235**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-1	S-5-C3	Total/NA	Solid	5035	
570-72680-4	S-12.5-C3	Total/NA	Solid	5035	
570-72680-7	S-10-D2	Total/NA	Solid	5035	
570-72680-8	S-2.5-E3	Total/NA	Solid	5035	
570-72680-10	S-7.5-E3	Total/NA	Solid	5035	
570-72680-15	S-15-E5	Total/NA	Solid	5035	
570-72680-16	S-15-E6A	Total/NA	Solid	5035	
570-72680-17	S-15-C8A	Total/NA	Solid	5035	
570-72680-18	S-15-E8A	Total/NA	Solid	5035	
570-72680-20	S-20-E8A	Total/NA	Solid	5035	
570-72680-22	S-20-E8A DUP	Total/NA	Solid	5035	
570-72680-25	S-20-G8A	Total/NA	Solid	5035	

#### **Prep Batch: 188236**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-2	S-7.5-C3	Total/NA	Solid	5035	
570-72680-5	S-5-D2	Total/NA	Solid	5035	
570-72680-6	S-7.5-D2	Total/NA	Solid	5035	
570-72680-9	S-5-E3	Total/NA	Solid	5035	
570-72680-11	S-5-E5	Total/NA	Solid	5035	
570-72680-12	S-7.5-E5	Total/NA	Solid	5035	
570-72680-13	S-10-E5	Total/NA	Solid	5035	
570-72680-14	S-12.5-E5	Total/NA	Solid	5035	
570-72680-19	S-17.5-E8A	Total/NA	Solid	5035	
570-72680-23	S-15-G8A	Total/NA	Solid	5035	
570-72680-24	S-17.5-G8A	Total/NA	Solid	5035	

#### **Analysis Batch: 188305**

<b>Lab Sample ID</b> 570-72680-1	Client Sample ID S-5-C3	Prep Type Total/NA	Matrix Solid	Method NWTPH-Gx	Prep Batch 188235
570-72680-4	S-12.5-C3	Total/NA	Solid	NWTPH-Gx	188235
570-72680-8	S-2.5-E3	Total/NA	Solid	NWTPH-Gx	188235
MB 570-188305/33	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188305/31	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188305/32	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Analysis Batch: 188470**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-7	S-10-D2	Total/NA	Solid	NWTPH-Gx	188235
MB 570-188470/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188470/4	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188470/5	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

### **GC VOA**

#### Analysis Batch: 188568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-10	S-7.5-E3	Total/NA	Solid	NWTPH-Gx	188235
570-72680-17	S-15-C8A	Total/NA	Solid	NWTPH-Gx	188235
570-72680-18	S-15-E8A	Total/NA	Solid	NWTPH-Gx	188235
570-72680-22	S-20-E8A DUP	Total/NA	Solid	NWTPH-Gx	188235
MB 570-188568/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188568/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188568/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Analysis Batch: 188860**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-2	S-7.5-C3	Total/NA	Solid	NWTPH-Gx	188236
570-72680-5	S-5-D2	Total/NA	Solid	NWTPH-Gx	188236
570-72680-6	S-7.5-D2	Total/NA	Solid	NWTPH-Gx	188236
570-72680-9	S-5-E3	Total/NA	Solid	NWTPH-Gx	188236
570-72680-11	S-5-E5	Total/NA	Solid	NWTPH-Gx	188236
570-72680-12	S-7.5-E5	Total/NA	Solid	NWTPH-Gx	188236
570-72680-13	S-10-E5	Total/NA	Solid	NWTPH-Gx	188236
570-72680-23	S-15-G8A	Total/NA	Solid	NWTPH-Gx	188236
MB 570-188860/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188860/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188860/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 189079**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-14	S-12.5-E5	Total/NA	Solid	NWTPH-Gx	188236
570-72680-15	S-15-E5	Total/NA	Solid	NWTPH-Gx	188235
570-72680-16	S-15-E6A	Total/NA	Solid	NWTPH-Gx	188235
570-72680-19	S-17.5-E8A	Total/NA	Solid	NWTPH-Gx	188236
570-72680-20	S-20-E8A	Total/NA	Solid	NWTPH-Gx	188235
570-72680-24	S-17.5-G8A	Total/NA	Solid	NWTPH-Gx	188236
570-72680-25	S-20-G8A	Total/NA	Solid	NWTPH-Gx	188235
MB 570-189079/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-189079/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-189079/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-189079/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### Analysis Batch: 189364

Lab Sample ID 570-72680-3	Client Sample ID S-10-C3	Prep Type Total/NA	Matrix Solid	Method NWTPH-Gx	Prep Batch 189399
MB 570-189399/3-A	Method Blank	Total/NA	Solid	NWTPH-Gx	189399
LCS 570-189399/1-A	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	189399
LCSD 570-189399/2-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	189399
570-72680-3 MS	S-10-C3	Total/NA	Solid	NWTPH-Gx	189399
570-72680-3 MSD	S-10-C3	Total/NA	Solid	NWTPH-Gx	189399

#### **Prep Batch: 189399**

Lab Sample ID 570-72680-3	Client Sample ID S-10-C3	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 570-189399/3-A	Method Blank	Total/NA	Solid	5035	
LCS 570-189399/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 570-189399/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

### **GC VOA (Continued)**

#### Prep Batch: 189399 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-3 MS	S-10-C3	Total/NA	Solid	5035	
570-72680-3 MSD	S-10-C3	Total/NA	Solid	5035	

### **GC Semi VOA**

#### **Prep Batch: 188370**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
570-72680-1	S-5-C3	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-2	S-7.5-C3	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-3	S-10-C3	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-4	S-12.5-C3	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-5	S-5-D2	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-6	S-7.5-D2	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-7	S-10-D2	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-8	S-2.5-E3	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-9	S-5-E3	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-10	S-7.5-E3	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-11	S-5-E5	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-12	S-7.5-E5	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-13	S-10-E5	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-14	S-12.5-E5	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-15	S-15-E5	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-16	S-15-E6A	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-17	S-15-C8A	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-18	S-15-E8A	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-19	S-17.5-E8A	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-20	S-20-E8A	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-188370/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188370/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188370/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-188370/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-188370/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-1 MS	S-5-C3	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-1 MS	S-5-C3	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-1 MSD	S-5-C3	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-1 MSD	S-5-C3	Silica Gel Cleanup	Solid	3550C SGC	

#### **Analysis Batch: 188373**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-1	S-5-C3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-2	S-7.5-C3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-3	S-10-C3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-4	S-12.5-C3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-5	S-5-D2	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-6	S-7.5-D2	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-7	S-10-D2	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-9	S-5-E3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-10	S-7.5-E3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-11	S-5-E5	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-12	S-7.5-E5	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-13	S-10-E5	Silica Gel Cleanup	Solid	NWTPH-Dx	188370

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Project/Site: ExxonMobil/ADC/0314476040

## GC Semi VOA (Continued)

#### **Analysis Batch: 188373 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-14	S-12.5-E5	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-15	S-15-E5	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-16	S-15-E6A	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-17	S-15-C8A	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-18	S-15-E8A	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-19	S-17.5-E8A	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-20	S-20-E8A	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
MB 570-188370/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
LCS 570-188370/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
LCS 570-188370/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
LCSD 570-188370/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
LCSD 570-188370/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-1 MS	S-5-C3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-1 MS	S-5-C3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-1 MSD	S-5-C3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370
570-72680-1 MSD	S-5-C3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370

#### **Prep Batch: 188375**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-22	S-20-E8A DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-23	S-15-G8A	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-24	S-17.5-G8A	Silica Gel Cleanup	Solid	3550C SGC	
570-72680-25 - DL	S-20-G8A	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-188375/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188375/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188375/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-188375/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-188375/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-A-22-A MS	Matrix Spike	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-A-22-B MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-A-22-C MS	Matrix Spike	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-A-22-D MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	3550C SGC	

#### **Analysis Batch: 188558**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-22	S-20-E8A DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72680-23	S-15-G8A	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72680-24	S-17.5-G8A	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
MB 570-188375/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
LCS 570-188375/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
LCS 570-188375/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
LCSD 570-188375/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
LCSD 570-188375/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-A-22-A MS	Matrix Spike	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-A-22-B MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-A-22-C MS	Matrix Spike	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-A-22-D MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	NWTPH-Dx	188375

#### Analysis Batch: 189336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-8	S-2.5-E3	Silica Gel Cleanup	Solid	NWTPH-Dx	188370

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Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

## GC Semi VOA (Continued)

**Analysis Batch: 189336 (Continued)** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-25 - DL	S-20-G8A	Silica Gel Cleanup	Solid	NWTPH-Dx	188375

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Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-5-C3

Date Collected: 10/12/21 09:20 Date Received: 10/13/21 10:15

Lab Sample ID: 570-72680-1

**Matrix: Solid** 

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.998 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	188305	10/22/21 06:49	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.49 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188373	10/22/21 01:40	N1A	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-7.5-C3 Lab Sample ID: 570-72680-2 Date Collected: 10/12/21 09:25 **Matrix: Solid** 

Date Received: 10/13/21 10:15

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA Prep 5035 4.352 g 5 mL 188236 10/21/21 13:27 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 100 5 mL 5 mL 188860 10/23/21 15:57 P1R ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 7.43 g 10 mL 188370 10/21/21 20:44 N5Y3 ECL 1 Silica Gel Cleanup NWTPH-Dx 188373 10/22/21 02:00 N1A ECL 1 Analysis 1 Instrument ID: GC50

Client Sample ID: S-10-C3 Lab Sample ID: 570-72680-3 Date Collected: 10/12/21 09:30

Date Received: 10/13/21 10:15

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 5.01 g 5 mL 189399 10/26/21 12:26 A9VE ECL 2 Prep Total/NA Analysis **NWTPH-Gx** 1 5 mL 189364 10/26/21 18:29 P1R ECL 2 5 g Instrument ID: GC1 Silica Gel Cleanup 3550C SGC 10/21/21 20:44 N5Y3 ECL 1 Prep 9.93 g 10 mL 188370 Silica Gel Cleanup Analysis NWTPH-Dx 188373 10/22/21 02:20 N1A ECL 1 1 Instrument ID: GC50

Client Sample ID: S-12.5-C3 Lab Sample ID: 570-72680-4 Date Collected: 10/12/21 09:35 **Matrix: Solid** 

Date Received: 10/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.185 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188305	10/22/21 08:24	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 02:41	N1A	ECL 1
	Instrumen	t ID: GC50								

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-5-D2

Date Collected: 10/12/21 09:55 Date Received: 10/13/21 10:15

Lab Sample ID: 570-72680-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.036 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	188860	10/23/21 15:33	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.41 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188373	10/22/21 03:01	N1A	ECL 1
	Instrumer	nt ID: GC50								

**Client Sample ID: S-7.5-D2** Lab Sample ID: 570-72680-6 Date Collected: 10/12/21 10:00 **Matrix: Solid** 

Date Received: 10/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.013 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	188860	10/23/21 16:44	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188373	10/22/21 03:20	N1A	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-10-D2 Lab Sample ID: 570-72680-7 Date Collected: 10/12/21 10:05 **Matrix: Solid** 

Date Received: 10/13/21 10:15

	Batch	Batch	Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.619 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC53		1	5 g	5 mL	188470	10/22/21 13:55	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.79 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 03:41	N1A	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-2.5-E3 Lab Sample ID: 570-72680-8 Date Collected: 10/12/21 10:10 **Matrix: Solid** 

Date Received: 10/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.27 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188305	10/22/21 09:58	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.22 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			189336	10/26/21 12:16	N5Y3	ECL 1
	Instrumen	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

**Client Sample ID: S-5-E3** 

Date Collected: 10/12/21 10:15 Date Received: 10/13/21 10:15 Lab Sample ID: 570-72680-9

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.605 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		50	5 mL	5 mL	188860	10/23/21 15:10	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.58 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		20			188373	10/22/21 04:22	N1A	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-7.5-E3
Date Collected: 10/12/21 10:20

Date Received: 10/13/21 10:15

Lab Sample ID: 570-72680-10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.813 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	188568	10/22/21 15:18	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx at ID: GC50		1			188373	10/22/21 04:41	N1A	ECL 1

Client Sample ID: S-5-E5

Date Collected: 10/12/21 11:00 Date Received: 10/13/21 10:15 Lab Sample ID: 570-72680-11

Lab Sample ID: 570-72680-12

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.028 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		200	5 mL	5 mL	188860	10/23/21 16:21	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.86 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		100			188373	10/22/21 05:02	N1A	ECL 1
	Instrumer	nt ID: GC50								

**Client Sample ID: S-7.5-E5** 

Date Collected: 10/12/21 11:05

Date Received: 10/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.406 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	188860	10/23/21 17:08	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			2.15 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188373	10/22/21 11:27	N1A	ECL 1
	Instrumen	t ID: GC50								

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Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-10-E5

Client: Cardno, Inc

Date Collected: 10/12/21 11:10 Date Received: 10/13/21 10:15 Lab Sample ID: 570-72680-13

Lab Sample ID: 570-72680-14

Lab Sample ID: 570-72680-15

Lab Sample ID: 570-72680-16

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.046 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		500	5 mL	5 mL	188860	10/23/21 17:31	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			2.07 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188373	10/22/21 11:47	N1A	ECL 1
	Instrumer	it ID: GC50								

Client Sample ID: S-12.5-E5

Da

Date Collected	d: 10/12/21 [•]	11:15							Ma	atrix: So	olid
ate Received	l: 10/13/21 1	10:15									
-											
	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
D T	<b>T</b>	8.0 - 411	_								

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		·	4.319 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC1		20	5 mL	5 mL	189079	10/25/21 20:49	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188373	10/22/21 12:07	N1A	ECL 1
	Instrumen	t ID: GC50								

**Client Sample ID: S-15-E5** 

Date Collected: 10/12/21 11:20

Date Received: 10/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.084 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	189079	10/25/21 19:12	P1R	ECL 2
	Instrumer	nt ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			9.48 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 07:07	N1A	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-15-E6A

Date Collected: 10/12/21 11:25

Date Received: 10/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.726 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	189079	10/25/21 19:36	P1R	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			9.92 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 07:26	N1A	ECL 1
	Instrumen	t ID: GC50								

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**Matrix: Solid** 

**Matrix: Solid** 

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-15-C8A

Client: Cardno, Inc

Date Collected: 10/12/21 11:30 Date Received: 10/13/21 10:15 Lab Sample ID: 570-72680-17

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.531 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	188568	10/22/21 16:52	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			7.22 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 07:46	N1A	ECL 1
	Instrumer	it ID: GC50								

Client Sample ID: S-15-E8A

Date Collected: 10/12/21 13:10

Date Received: 10/13/21 10:15

Lab Sample ID: 570-72680-18

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.938 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	188568	10/22/21 17:15	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 08:07	N1A	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-17.5-E8A

Date Collected: 10/12/21 13:15

Date Received: 10/13/21 10:15

Lab Sample ID: 570-72680-19

Lab Sample ID: 570-72680-20

**Matrix: Solid** 

**Matrix: Solid** 

	Prepared		
Number	or Analyzed	Analyst	Lab
188236	10/21/21 13:27	YZL3	ECL 2
189079	10/25/21 22:02	P1R	ECL 2
188370	10/21/21 20:44	N5Y3	ECL 1
188373	10/22/21 08:28	N1A	ECL 1
	188373	188373 10/22/21 08:28	188373 10/22/21 08:28 N1A

Client Sample ID: S-20-E8A

Date Collected: 10/12/21 13:20

Date Received: 10/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.226 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	189079	10/25/21 20:01	P1R	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			5.32 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 08:48	N1A	ECL 1
	Instrumen	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: Trip Blank

Date Collected: 10/12/21 00:00

Lab Sample ID: 570-72680-21

**Matrix: Water** 

Date Received: 10/13/21 10:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/19/21 21:49	P1R	ECL 2
	Instrumer	nt ID: GC25								

Lab Sample ID: 570-72680-22 Client Sample ID: S-20-E8A DUP

Date Collected: 10/12/21 13:25 Date Received: 10/13/21 10:15

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.584 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx nt ID: GC57		1	5 g	5 mL	188568	10/22/21 18:26	A9VE	ECL 2
	instrumer	ILID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			5.15 g	10 mL	188375	10/21/21 21:31	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188558	10/22/21 22:23	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-15-G8A Lab Sample ID: 570-72680-23 Date Collected: 10/12/21 14:15

Date Received: 10/13/21 10:15

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab Total/NA Prep 5035 5.089 g 5 mL 188236 10/21/21 13:27 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 1000 5 mL 5 mL 188860 10/23/21 18:19 P1R ECL 2 Instrument ID: GC56 Silica Gel Cleanup Prep 3550C SGC 2.97 g 10 mL 188375 10/21/21 21:31 N5Y3 ECL 1 Silica Gel Cleanup Analysis **NWTPH-Dx** 5 188558 10/22/21 22:43 N5Y3 ECL 1 Instrument ID: GC48

Client Sample ID: S-17.5-G8A Lab Sample ID: 570-72680-24

Date Collected: 10/12/21 14:20 Date Received: 10/13/21 10:15 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.989 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1000	5 mL	5 mL	189079	10/25/21 21:38	P1R	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			5.02 g	10 mL	188375	10/21/21 21:31	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		20			188558	10/22/21 23:04	N5Y3	ECL 1
	Instrumen	t ID: GC48								

Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

Client Sample ID: S-20-G8A Lab Sample ID: 570-72680-25

Date Collected: 10/12/21 14:25

Date Received: 10/13/21 10:15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC1		1	5 g	5 mL	189079	10/25/21 20:25	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC	DL		4.49 g	10 mL	188375	10/21/21 21:31	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	2			189336	10/26/21 13:02	N5Y3	ECL 1
	Instrument ID: GC50									

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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## **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-72680-1

Project/Site: ExxonMobil/ADC/0314476040

## **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-12-22

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## **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil/ADC/0314476040

Job ID: 570-72680-1

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2
5035	Closed System Purge and Trap	SW846	ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

	s eurofins		7440 LINCOLN WAY			Site	Name		Everett Bulk Plant	CHA	CHAIN OF CUSTODY RECORD	
; <b>:</b>		Calscience		841-1432		Provi	de MRN for re		or AFE for major projects			
			I EL: (/14) 695-5494 . FAX: (/14) 894-/501	A: (/14) 894-/501		Major	Retall Project (MRN) Major Project (AFE)			PAGE	9	
Exxon	ExxonMobil Engr		Jennifer Sedlachek			Proje	ct Name		ExxonMobil ADC / 0314476040	energia energia		
LABORATORY Cardno	Cardno							GLOBAL ID #/ COELT LOG CODE	CODE:	P O 0314	0314476040 Aareement# A2604415	ſ
ADDRESS 309	ADDRESS: 309 South Cloverdale Street Unit A13	rdale Stre	et Unit A13					PROJECT CONTACT			)	ŀ
Seat	⊤ Seattle, WA 98108	80						Robert Thompson	Robert Thompson	H 10000		
TEL.	206-510-5855	355	FAX. N/A	robert	thomps	on@ca	robert.thompson@cardno.com	Considine	levou, cameron remier-Ash, John		Ç,	nasonijas,
TURNAROUND TI	TURNAROUND TIME	¥	□48 HR □72 HR	□ 5 DAYS	☑ 10 DAYS	AYS			REQUESTE	REQUESTED ANALYSIS		
SPECIAL	SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWOCB REPORTING	ADDITIONAL COS	TS MAY APPLY)  SAMPLES UNTIL	ш /								T
SPECIAL Required	SPECIAL INSTRUCTIONS:	FDDs Perform	Silica Gel Cleanup - 0 5 orams	e Group results by	on alones	- Arana value	reie mothod					NEAT COMPANY
Include % Moistur All units in mg/kg.	Moisture in repo	ort for dry weig	Required this aid sature EDDs. Perform Sinca Set Creatify 10.3 grains. Group results by sample, not by analysis memor, include % Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in mg/Kg.	s. Group results by .cole@cardno.com, .	robert.thon	t by anali ipson@ci	ysis method. ardno.com	OSM/8 ss HqT - x				
Keport to	Jaina.coie@card	mo.com, rober	Report to: Jaina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-asn@cardno.com	cameron.penner-ash@	ingcardno IG	E	NO, OF CONT	H-G×	320-025	570-72680 Chain of Custody		adot Carron (r
	SAMPLEID	ED	Field Point Name	DATE	TIME	MAT-		чтр		CONTAINER TYPE	TYPE	i anno manara di
	8-5-63		5-5-63	10/12/2021	0420	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	T
	5-7.5-63	3	5-7.5-63	7	5240	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	Π
	5-10-5		5-10-63		0430	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	
7 V	-12.5-03	2	5-12.5-03	10/12/2021	2000	s v	4 4	× × × ×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glassjar 2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glassjar	oz un-preserved glass	jar iar	T
	5-75-02		5-2 5- 02		200	ာ	4	+	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	T
5	20-01-5		2-10-DZ	400.00	1005	S	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	П
7	3:5:23		S-2.5-E3	43,1311.51	1010	S	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	T
5 °	7-5-E3		5-5-E3	10/18/2021	200	S	4 4	××	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	Ī
	-5-65		5-6-25	NA SOUR	3 2	S	7	+-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	Ī
12.5	-7.5-ES		5-7-5- 25	1	1105	S	4	+-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	Π
_ [	-10 - ES		53-01-5		110	S	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	T
- 1	5-12.5-ES		S-12.5-ES	Opinio s	1115	S	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	
1	52-51-5		5-15-25	-	1120	S	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass		-
9 7	7 - 13 - 19A	***************************************	5-15-EVA	10/10/2021	221	n (r.	4 4	< ×	2 Sodium bisultate VOAs, 1 Memanol VOA, one 4oz un-preserved glass lat 2 Sodium Bisultate VOAs, 1 Memanol VOA, one 4oz un-preserved class lar	oz un-preserved glass oz un-preserved glass	Jar	
1.	-15-EAA		F-15- EBA		1310	S	4	+-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	187	T
19 [[	J-17.5-EBA		5-17.5-884		1315	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	
502	A83-05-8		S-20-58A	10/12/2021	1320		4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass	jar	Ī
$\Box$			,	3					1			
= <b>u</b> ,	Trip Blank		Trip Blank	10/2/2021		3 4	4 1	×	2 VOAs			T
Relinquis	Relinquished by (Signature)	1001	13	1		Received	d by (Signature)			Date, & Time		T
Paul Prevou	evou	garo	1			FedEx				10/12/2021	021 4 15 00 PM	T
Relinquis	Relinquished by' (Signature)	6				Receive	Received by: (Signature)		3	Date & Time	N.C) 48	
Relinquis	Relinquished by (Signature)	(e)				Received	ed by (Signature)			Date & Time		onteres de contra
ľ		SOIL COC 214	9605 to 210813_use me								4/2-3 5ct	1
										eriori Bir		

Calisticing controlled across to August   Calisticing controlled   Ca	s enrofins	7440 LINCOLN WAY			Site	lame		Everett Bulk Plant	CHAIN OF CUSTODY RECORD	
CONTAINER   P			841-1432 (. (714) 894-7501		Provid Retail	e MRN for ret Project (MRN)	II or AFE for	BBBBCCDSBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	6	
ROUGHL 10 or CORT LOS CORE   PO 0.3147/6040 Agreement# A28044					Major	Project (AFE)	sees sees sees sees sees sees sees see		<b>5</b>	1
Policy 14/79040 Agreement# A28044   Robert Thompson   Parent Tho	ExxonMobil Engr	Jennifer Sedlachek			Project	<i>t Name</i>		xxonMobil ADC / 0314476040		
REQUESTIONAL Thompson  Source Throughout Thompson  Source Throws A Throughout Cameron Penner-Ash, John  Considine  REQUESTED ANALYSIS  REQUESTED ANALYSIS  Source Management Considering C	LABORATORY CLIENT  Cardno						GLOBAL ID #/ COELT LO	3 CODE.		generates
ROBERT Thrompson   Robert Thrompson   Considerable   Considerabl	ADDRESS: 309 South Cloverdale	Street Unit A13					PRO JECT CONTACT:		- 17	************
CONTAINER   Paul   Prevous Cameron Penner-Ash, John   REQUESTED ANALYSIS   Paul   Prevous Cameron Penner-Ash, John   Requests   Paul   Prevous Cameron   Paul   Prevous C	CITY:						Robert Thom	pson		-
Deficiency of the sea	TEL 206-510-5855		rohert	thomos	n@care	no com	SAMPLER(S): <b>Paul</b> F Considine	revou, Cameron Penner-Ash, John	Foel?i Temb≔	
CONTAINER TYPE    2 Sociam Buildies VOAs 1 Methons VOA con stor uppresented glass juri   3 Sociam Buildies VOAs 1 Methons VOAs con stor uppresented glass juri   4	빛		,		2000	TIONOLI I		REQUESTE		NAME OF TAXABLE PARTY.
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The Purple of Section and among parameters and statement	Include % Moisture in report for dr. All units in mg/kg.	weight correction. Report to: laina.	cole@cardno.com, r	obert.thom	oson@card	ino.com	HqT		enconer state	nicolate and a color
Field Point Name   DATE   Time   No.	Report to: laina.cole@cardno.com,	robert.thompson@cardno.com, and	cameron.penner-as	@cardno.c	E	TWO 30 ON	-Gx	***************************************	and the same of th	
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Client: Cardno, Inc

Job Number: 570-72680-1

Login Number: 72680 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Patel, Jayesh

Creator. Pater, Jayesii		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# **Environment Testing America**

## **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-72859-1

Client Project/Site: ExxonMobil ADC/0314476040

Revision: 1

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Cuill d. on Sonia

Authorized for release by: 11/18/2021 5:46:51 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS .....

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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## **Sample Summary**

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

570-72859-28

S-10-H2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-72859-1	S-15-I8A	Solid	10/13/21 11:00	10/14/21 10:00
570-72859-2	S-2.5-H6	Solid	10/13/21 11:15	10/14/21 10:00
570-72859-3	S-5-H6	Solid	10/13/21 11:20	10/14/21 10:00
570-72859-4	S-7.5-H6	Solid	10/13/21 11:25	10/14/21 10:00
570-72859-5	S-10-H6	Solid	10/13/21 11:30	10/14/21 10:00
570-72859-6	S-12.5-H6	Solid	10/13/21 11:35	10/14/21 10:00
570-72859-7	S-3.5-I7	Solid	10/13/21 11:40	10/14/21 10:00
570-72859-8	S-5-I7	Solid	10/13/21 11:45	10/14/21 10:00
570-72859-9	S-10-I7	Solid	10/13/21 11:50	10/14/21 10:00
570-72859-10	S-12.5-I7	Solid	10/13/21 11:55	10/14/21 10:00
570-72859-11	S-15-I7	Solid	10/13/21 12:00	10/14/21 10:00
570-72859-12	S-2.5-I5	Solid	10/13/21 12:05	10/14/21 10:00
570-72859-13	S-5-15	Solid	10/13/21 12:10	10/14/21 10:00
570-72859-14	S-7.5-I5	Solid	10/13/21 12:15	10/14/21 10:00
570-72859-15	S-10-I5	Solid	10/13/21 12:20	10/14/21 10:00
570-72859-16	S-12.5-I5	Solid	10/13/21 12:25	10/14/21 10:00
570-72859-17	S-12.5-I5-DUP	Solid	10/13/21 12:30	10/14/21 10:00
570-72859-18	S-5-H4	Solid	10/13/21 13:15	10/14/21 10:00
570-72859-19	S-7.5-H4	Solid	10/13/21 13:20	10/14/21 10:00
570-72859-20	S-2.5-I3	Solid	10/13/21 13:25	10/14/21 10:00
570-72859-21	Trip Blank	Water	10/13/21 00:00	10/14/21 10:00
570-72859-22	S-5-I3	Solid	10/13/21 13:30	10/14/21 10:00
570-72859-23	S-7.5-I3	Solid	10/13/21 13:35	10/14/21 10:00
570-72859-24	S-10-I3	Solid	10/13/21 13:40	10/14/21 10:00
570-72859-25	S-2.5-H2	Solid	10/13/21 13:45	10/14/21 10:00
570-72859-26	S-5-H2	Solid	10/13/21 13:50	10/14/21 10:00
570-72859-27	S-7.5-H2	Solid	10/13/21 13:55	10/14/21 10:00

Solid

10/13/21 14:00 10/14/21 10:00

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## **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

#### **Qualifiers**

**GC VOA** 

Qualifier Qualifier Description

S1- Surrogate recovery exceeds control limits, low biased.

**GC Semi VOA** 

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

F2 MS/MSD RPD exceeds control limits

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Example 2 Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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#### Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-72859-1

Job ID: 570-72859-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-72859-1

#### Comments

No additional comments.

#### Revision

The report being provided is a revision of the original report sent on 10/27/2021. The report (revision 1) is being revised due to: Sample ID for S-2.5-H3 (570-72859-20) was entered incorrectly in TALS. The correct sample ID is S-2.5-I3. Please refer to the attached email.

The samples were received on 10/14/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-187023. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-187202. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-187196. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-187353. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-187511. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-12.5-H6 (570-72859-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-189079. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-188587 and analytical batch 570-188570 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-15-I8A Lab Sample ID: 570-72859-1

No Detections.

Client Sample ID: S-2.5-H6 Lab Sample ID: 570-72859-2

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	7.4	0.20	mg/Kg	<u> </u>	NWTPH-Gx	Total/NA
TPH as Diesel Range	1800	29	mg/Kg	5 ≎	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	650	29	mg/Kg	5 ≎	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-H6 Lab Sample ID: 570-72859-3

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	7.7	0.22	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	3900	58	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	3400	58	mg/Kg	10 ∹	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-7.5-H6 Lab Sample ID: 570-72859-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D M	<b>lethod</b>	Prep Type
TPH as Gasoline (C4-C13)	430		57	mg/Kg	250	₩ N	IWTPH-Gx	Total/NA
TPH as Diesel Range	8300		56	mg/Kg	10	⇔ N′	IWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2200		56	mg/Kg	10	⊅ N	IWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-H6 Lab Sample ID: 570-72859-5

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	810	84	mg/Kg	250	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	5400	56	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1500	56	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-12.5-H6 Lab Sample ID: 570-72859-6

Analyte	Result Qualifier	RL	Unit	Dil Fac [	Method	Prep Type
TPH as Gasoline (C4-C13)		0.51	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	110	15	mg/Kg	1 ⊀	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	74	15	mg/Kg	1 ⊀	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-3.5-I7 Lab Sample ID: 570-72859-7

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	380	24	mg/Kg	100		Total/NA
TPH as Diesel Range	4400	63	mg/Kg	10	☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1400	63	mg/Kg	10	☼ NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

11/18/2021 (Rev. 1)

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

Method NWTPH-Gx NWTPH-Dx	Prep Type  Total/NA  Silica Gel Cleanup
NWTPH-Dx	Total/NA Silica Gel
NWTPH-Dx	Cleanup
NWTPH-Dx	
	Silica Gel
	Cleanup
mple ID: 5	70-72859-9
Mothod	Prop Type
	Prep Type Total/NA
NWTPH-DX	Silica Gel Cleanup
NWTPH_Dx	Silica Gel
WW II II BX	Cleanup
nple ID: 57	<u> </u>
Method	Prep Type
NWTPH-Gx	Total/NA
NWTPH-Dx	Silica Gel Cleanup
NWTPH-Dx	Silica Gel
	Cleanup
nple ID: 57	0-72859-11
Method	Prep Type
NWTPH-Dx	Silica Gel Cleanup
nple ID: 57	0-72859-12
	Prep Type
	Total/NA
NWTPH-Dx	Silica Gel
NW/TDLL Dv	Cleanup
NVV I PH-DX	Silica Gel Cleanup
I- ID- 53	<u> </u>
пріе іD: 57	0-72859-13
Method	Prep Type
NWTPH-Gx	Total/NA
NWTPH-Dx	Silica Gel Cleanup
NWTPH-Dx	Silica Gel Cleanup
nple ID: 57	70-72859-14
12.2.2.2.3.	
Method	Prep Type
NWTPH-Gx	Total/NA
	0.11.
NWTPH-Dx	Silica Gel Cleanup
Y Y	NWTPH-GX NWTPH-DX  NWTPH-DX  NPIE ID: 57  Method NWTPH-DX  NWTPH-DX  NWTPH-GX NWTPH-DX  NWTPH-DX  NWTPH-DX  NWTPH-DX  NWTPH-DX  NWTPH-DX  NWTPH-DX  NWTPH-DX  NWTPH-DX  NWTPH-DX

This Detection Summary does not include radiochemical test results.

**Eurofins Calscience LLC** 

11/18/2021 (Rev. 1)

**Detection Summary** Client: Cardno, Inc Job ID: 570-72859-1 Project/Site: ExxonMobil ADC/0314476040 Client Sample ID: S-10-I5 Lab Sample ID: 570-72859-15 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 1000 🛱 NWTPH-Gx 870 350 mg/Kg Total/NA 7800 5 A NWTPH-Dx TPH as Diesel Range 120 mg/Kg Silica Gel Cleanup Client Sample ID: S-12.5-I5 Lab Sample ID: 570-72859-16 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 0.58 1 ☼ NWTPH-Gx 3.1 mg/Kg Total/NA TPH as Diesel Range 23 13 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup TPH as Motor Oil Range 45 13 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup Lab Sample ID: 570-72859-17 Client Sample ID: S-12.5-I5-DUP Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 1.3 0.40 mg/Kg 1 ☼ NWTPH-Gx Total/NA 1 ☼ NWTPH-Dx TPH as Diesel Range 34 14 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 55 1 ☼ NWTPH-Dx 14 mg/Kg Silica Gel Cleanup Client Sample ID: S-5-H4 Lab Sample ID: 570-72859-18 **Analyte** Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 110 5.4 mg/Kg 20 ☆ NWTPH-Gx Total/NA TPH as Diesel Range 28 5 ☼ NWTPH-Dx Silica Gel 2100 mg/Kg Cleanup TPH as Motor Oil Range 320 28 mg/Kg 5 A NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-7.5-H4 Lab Sample ID: 570-72859-19

Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.64	0.23	mg/Kg	1 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	6.3	5.6	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-2.5-I3

Analyte TPH as Gasoline (C4-C13) TPH as Diesel Range	3.1 Qualifier 660	RL 0.25	Unit mg/Kg mg/Kg	1	<u>~</u>	Method NWTPH-Gx NWTPH-Dx	Prep Type Total/NA Silica Gel
TPH as Motor Oil Range	670	110	mg/Kg			NWTPH-Dx	Cleanup Silica Gel Cleanup

**Client Sample ID: Trip Blank** 

No Detections.

C	lien	t S	amı	ple	ID:	S-5-	13

<u> </u>	•				
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	220	12	mg/Kg	50 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	5000	58	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

**Eurofins Calscience LLC** 

11/18/2021 (Rev. 1)

Lab Sample ID: 570-72859-20

Lab Sample ID: 570-72859-21

Lab Sample ID: 570-72859-22

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S.	-5-13 (Continued)			Lab Sample ID: 5	70-72859-22
Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range	2000	58	mg/Kg	10 🕏	NWTPH-Dx	Silica Gel Cleanup

#### Lab Sample ID: 570-72859-23 Client Sample ID: S-7.5-I3

Analyte	Result Qualifier	RL	Unit	Dil Fac I	) Method	Prep Type
TPH as Gasoline (C4-C13)	0.30	0.21	mg/Kg	<u> </u>	NWTPH-Gx	Total/NA
TPH as Diesel Range	110	5.9	mg/Kg	1 -3	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	63	5.9	mg/Kg	1 ∃	NWTPH-Dx	Silica Gel Cleanup

#### Lab Sample ID: 570-72859-24 Client Sample ID: S-10-I3

No Detections.

#### Client Sample ID: S-2.5-H2 Lab Sample ID: 570-72859-25

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	76	12	mg/Kg	50	NWTPH-Gx	Total/NA
TPH as Diesel Range	2200	58	mg/Kg	10	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	780	58	mg/Kg	10	⇔ NWTPH-Dx	Silica Gel Cleanup

#### Lab Sample ID: 570-72859-26 Client Sample ID: S-5-H2

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	270	26	mg/Kg	100	NWTPH-Gx	Total/NA
TPH as Diesel Range	1700	28	mg/Kg	5	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	680	28	mg/Kg	5	⇔ NWTPH-Dx	Silica Gel Cleanup

#### Client Sample ID: S-7.5-H2 Lab Sample ID: 570-72859-27

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	870	250	mg/Kg	1000	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	6200	29	mg/Kg	5	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	920	29	mg/Kg	5	₩	NWTPH-Dx	Silica Gel Cleanup

#### Lab Sample ID: 570-72859-28 Client Sample ID: S-10-H2

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range	170	79	mg/Kg	5 🌣	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-15-I8A

Date Collected: 10/13/21 11:00 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72859-1

**Matrix: Solid** 

Job ID: 570-72859-1

Analyte	Result Qu	ialifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	1.9	mg/Kg	<del>*</del>	10/15/21 13:00	10/16/21 16:26	1
Surrogate	%Recovery Qu	ıalifier Limits			Prepared	Analyzed	Dil Fac

59 50 - 150 <u>10/15/21 13:00</u> <u>10/16/21 16:26</u> 4-Bromofluorobenzene (Surr)

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		34	mg/Kg	_ <u></u>	10/22/21 12:40	10/22/21 18:08	1
TPH as Motor Oil Range	ND		34	mg/Kg	₩	10/22/21 12:40	10/22/21 18:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	91		50 - 150			10/22/21 12:40	10/22/21 18:08	1

Client Sample ID: S-2.5-H6 Lab Sample ID: 570-72859-2 Date Collected: 10/13/21 11:15 **Matrix: Solid** 

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	7.4	0.20	mg/Kg	☼	10/15/21 13:00	10/16/21 16:50	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 57 50 - 150 10/15/21 13:00 10/16/21 16:50

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1800	29	mg/Kg	₽	10/22/21 12:40	10/22/21 18:28	5
TPH as Motor Oil Range	650	29	mg/Kg	₩	10/22/21 12:40	10/22/21 18:28	5
Surrogate n-Octacosane (Surr)	%Recovery Qualifier 94	Limits 50 - 150			Prepared 10/22/21 12:40	Analyzed 10/22/21 18:28	Dil Fac

Client Sample ID: S-5-H6 Lab Sample ID: 570-72859-3 **Matrix: Solid** 

Date Collected: 10/13/21 11:20

Date Received: 10/14/21 10:00

Method: NWTPH-Gx	Northwest Valati	la Datrolaum E	Producto (CC)
IVIELLICO. NVV LPH-CIX	- Normwesi - voiam	ie Peiroieum r	MODUCIS (U.C.)

Analyte	Result	Qualifier	RL	 Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	7.7		0.22	mg/Kg	<del>*</del>	10/15/21 13:00	10/16/21 18:00	1
_								

Surrogate %Recovery Qualifier Limits Prepared Analyzed <u>10/15/21 13:00</u> <u>10/16/21 18:00</u> 4-Bromofluorobenzene (Surr) 61 50 - 150

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3900	58	mg/Kg	<del>*</del>	10/22/21 12:40	10/22/21 18:47	10
TPH as Motor Oil Range	3400	58	mg/Kg	₽	10/22/21 12:40	10/22/21 18:47	10
Surrogate	%Recovery Qua	alifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109	50 - 150			10/22/21 12:40	10/22/21 18:47	10

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-H6

Date Collected: 10/13/21 11:25 Date Received: 10/14/21 10:00 Lab Sample ID: 570-72859-4

**Matrix: Solid** 

Job ID: 570-72859-1

Method: NWTPH-Gx - Northwest -	Vola	tile	Pe	troleum	<b>Products</b>	(GC)
	_		_			

Analyte	Result	Qualifier	KL	Unit	ט	Prepared	Analyzeu	Dii Fac
TPH as Gasoline (C4-C13)	430		57	mg/Kg	☼	10/15/21 13:00	10/19/21 01:07	250
<b>3</b>	0/5	0					A t	D# 5

Surrogate Limits Prepared %Recovery Qualifier Analyzed Dil Fac 50 - 150 10/15/21 13:00 10/19/21 01:07 4-Bromofluorobenzene (Surr) 89 250

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	8300		56	mg/Kg	<u></u>	10/22/21 12:40	10/22/21 19:07	10
TPH as Motor Oil Range	2200		56	mg/Kg	₩	10/22/21 12:40	10/22/21 19:07	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		50 - 150			10/22/21 12:40	10/22/21 19:07	10

Client Sample ID: S-10-H6 Lab Sample ID: 570-72859-5

Date Collected: 10/13/21 11:30 Date Received: 10/14/21 10:00

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	810		84	mg/Kg	<del></del>	10/15/21 13:00	10/19/21 01:30	250

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac <u>10/15/21 13:00</u> <u>10/19/21 01:30</u> 4-Bromofluorobenzene (Surr) 88 50 - 150 250

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5400		56	mg/Kg	☼	10/22/21 12:40	10/22/21 19:27	10
TPH as Motor Oil Range	1500		56	mg/Kg	☼	10/22/21 12:40	10/22/21 19:27	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150			10/22/21 12:40	10/22/21 19:27	10

Client Sample ID: S-12.5-H6 Lab Sample ID: 570-72859-6 **Matrix: Solid** 

Date Collected: 10/13/21 11:35 Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northwe	st - Volatile Petroleum	<b>Products (GC</b>	)				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	11	0.51	mg/Kg	<del>*</del>	10/15/21 13:00	10/19/21 18:18	1

Surrogate %Recovery Qualifier I imits Analyzed Dil Fac Prepared 47 S1-10/15/21 13:00 10/19/21 18:18 4-Bromofluorobenzene (Surr) 50 - 150

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	110	15	mg/Kg	<u></u>	10/22/21 12:40	10/22/21 19:47	1
TPH as Motor Oil Range	74	15	mg/Kg	≎	10/22/21 12:40	10/22/21 19:47	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92	50 - 150			10/22/21 12:40	10/22/21 19:47	1

**Eurofins Calscience LLC** 

liant Sample ID: S 2 5 17

Client Sample ID: S-3.5-I7

Lab Sample ID: 570-72859-7

Date Collected: 10/13/21 11:40

Date Received: 10/14/21 10:00

Matrix: Solid

Method: NWTPH-Gx - North	nwest - Volatile	Petroleui	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	380		24	mg/Kg	<del>-</del>	10/15/21 13:00	10/18/21 21:35	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			10/15/21 13:00	10/18/21 21:35	100

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4400		63	mg/Kg	<u></u>	10/22/21 12:40	10/22/21 20:06	10
TPH as Motor Oil Range	1400		63	mg/Kg	₩	10/22/21 12:40	10/22/21 20:06	10
Surrogate	%Recovery G	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150			10/22/21 12:40	10/22/21 20:06	10

Client Sample ID: S-5-I7

Date Collected: 10/13/21 11:45

Lab Sample ID: 570-72859-8

Matrix: Solid

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.32 10/15/21 13:00 10/18/21 13:23 5.0 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 83 50 - 150 10/15/21 13:00 10/18/21 13:23

Method: NWTPH-Dx - Northy	vest - Semi-V	olatile Peti	oleum Produ	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	53		5.4	mg/Kg	<u></u>	10/22/21 12:40	10/22/21 20:26	1
TPH as Motor Oil Range	23		5.4	mg/Kg	₩	10/22/21 12:40	10/22/21 20:26	1
Surrogate n-Octacosane (Surr)	<mark>%Recovery</mark> 97	Qualifier	Limits 50 - 150			<b>Prepared</b> 10/22/21 12:40	Analyzed 10/22/21 20:26	Dil Fac

Client Sample ID: S-10-I7 Lab Sample ID: 570-72859-9

Date Collected: 10/13/21 11:50

Date Received: 10/14/21 10:00

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	280		110	mg/Kg	<del>*</del>	10/15/21 13:00	10/19/21 01:54	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		50 - 150			10/15/21 13:00	10/19/21 01:54	500

Method: NWTPH-Dx - Nort	thwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	730	10	mg/Kg	₩	10/22/21 12:40	10/22/21 20:46	1
TPH as Motor Oil Range	160	10	mg/Kg	₽	10/22/21 12:40	10/22/21 20:46	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95	50 - 150			10/22/21 12:40	10/22/21 20:46	1

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: 570-72859-10 Client Sample ID: S-12.5-I7 **Matrix: Solid** 

Date Collected: 10/13/21 11:55 Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (G0	C)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	99		6.7	mg/Kg	<del>-</del>	10/15/21 13:00	10/18/21 20:01	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		50 - 150			10/15/21 13:00	10/18/21 20:01	20

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	130		7.4	mg/Kg	<u></u>	10/22/21 12:40	10/22/21 21:06	1
TPH as Motor Oil Range	68		7.4	mg/Kg	₩	10/22/21 12:40	10/22/21 21:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		50 - 150			10/22/21 12:40	10/22/21 21:06	1

Client Sample ID: S-15-I7 Lab Sample ID: 570-72859-11 **Matrix: Solid** 

Date Collected: 10/13/21 12:00

Date Received: 10/14/21 10:00

Analyte		Qualifier	n Products (GC RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	<u>·</u>	1.3	mg/Kg	<u></u>	10/15/21 13:00	10/18/21 13:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150			10/15/21 13:00	10/18/21 13:47	1

Method: NWTPH-Dx - Nort	thwest - Semi-Vo	latile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		38	mg/Kg	— <u></u>	10/22/21 12:40	10/22/21 22:06	1
TPH as Motor Oil Range	100		38	mg/Kg	₩	10/22/21 12:40	10/22/21 22:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150			10/22/21 12:40	10/22/21 22:06	1

Lab Sample ID: 570-72859-12 Client Sample ID: S-2.5-I5 **Matrix: Solid** 

Date Collected: 10/13/21 12:05 Date Received: 10/14/21 10:00

Method: NWTPH-Gx - North	west - Volatile	e Petroleu	m Products (GC)	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	330		11	mg/Kg	☼	10/15/21 13:00	10/18/21 20:25	50
Surrogate		Qualifier	Limits			Prepared 10/45/04 40:00	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150			10/15/21 13:00	10/18/21 20:25	50

Method: NWTPH-Dx - Nort	thwest - Semi-Volatile Pe	troleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7400	58	mg/Kg	<del>-</del>	10/22/21 12:40	10/22/21 22:25	10
TPH as Motor Oil Range	1600	58	mg/Kg	☼	10/22/21 12:40	10/22/21 22:25	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100	50 - 150			10/22/21 12:40	10/22/21 22:25	10

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-5-I5

Lab Sample ID: 570-72859-13

Date Collected: 10/13/21 12:10 **Matrix: Solid** Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	98		17	mg/Kg	<del></del>	10/15/21 13:00	10/26/21 00:23	50	
Surrogate	%Recovery G	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		50 - 150			10/15/21 13:00	10/26/21 00:23	50	

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	1900		60	mg/Kg	<u></u>	10/22/21 12:40	10/22/21 22:45	10	
TPH as Motor Oil Range	370		60	mg/Kg	₩	10/22/21 12:40	10/22/21 22:45	10	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	114		50 - 150			10/22/21 12:40	10/22/21 22:45	10	

Client Sample ID: S-7.5-I5 Lab Sample ID: 570-72859-14 **Matrix: Solid** 

Date Collected: 10/13/21 12:15 Date Received: 10/14/21 10:00

Method: NWTPH-GX - North	iwest - voiatile	Petroleur	n Products (GC)	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	980		120	mg/Kg	<u></u>	10/15/21 13:00	10/19/21 02:17	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150			10/15/21 13:00	10/19/21 02:17	500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

-1	Method: MWTT H-DX - Morthwe	Jot - Ochhi-V	olatile i et	loicuiii i lou	ucts (GG) - Gilica C	JG1 \	Jicanap		
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	TPH as Diesel Range	4500		56	mg/Kg	₽	10/22/21 12:40	10/22/21 23:05	10
	TPH as Motor Oil Range	970		56	mg/Kg	₩	10/22/21 12:40	10/22/21 23:05	10
	Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 10/22/21 12:40	Analyzed 10/22/21 23:05	Dil Fac

Lab Sample ID: 570-72859-15 Client Sample ID: S-10-I5

Date Collected: 10/13/21 12:20 **Matrix: Solid** 

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northy	vest - Volatile	e Petroleur	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	870		350	mg/Kg	₽	10/15/21 13:00	10/19/21 02:40	1000
Surrogate 4-Bromofluorobenzene (Surr)		Qualifier	Limits 50 - 150			<b>Prepared</b> 10/15/21 13:00	Analyzed 10/19/21 02:40	<b>Dil Fac</b> 1000

Method: NWTPH-Dx - Northy	est - Semi-Volatile Petroleum	Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	KL	Unit	ט	Prepared	Anaiyzed	DII Fac
TPH as Diesel Range	7800	120	mg/Kg	₩	10/22/21 12:40	10/22/21 23:25	5
TPH as Motor Oil Range	ND	120	mg/Kg	☼	10/22/21 12:40	10/22/21 23:25	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)		50 150			10/22/21 12:40	10/22/21 23:25	

Client Sample ID: S-12.5-I5 Lab Sample ID: 570-72859-16

Date Collected: 10/13/21 12:25 **Matrix: Solid** Date Received: 10/14/21 10:00

	hwest - Volatile	e Petroleui	m Products (GC	<b>c</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3.1		0.58	mg/Kg	<u></u>	10/15/21 13:00	10/18/21 14:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150			10/15/21 13:00	10/18/21 14:59	1

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	23		13	mg/Kg	₽	10/22/21 12:40	10/22/21 23:45	1
TPH as Motor Oil Range	45		13	mg/Kg	₩	10/22/21 12:40	10/22/21 23:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			10/22/21 12:40	10/22/21 23:45	

Lab Sample ID: 570-72859-17 Client Sample ID: S-12.5-I5-DUP Date Collected: 10/13/21 12:30 **Matrix: Solid** 

Date Received: 10/14/21 10:00

_ Method: NWTPH-Gx - NortI	nwest - Volatile	Petroleur	n Products (GC	;)				
Analyte		Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.3		0.40	mg/Kg	<del>*</del>	10/15/21 13:00	10/18/21 15:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150			10/15/21 13:00	10/18/21 15:23	1

Method: NWTPH-Dx - Nort	thwest - Semi-Vola Result Q		oducts (GC) - Silic Unit	ca Gel (	Cleanup Prepared	Analyzed	Dil Fac
TPH as Diesel Range	34	14	mg/Kg	<del>\</del>	10/22/21 12:40	10/23/21 00:05	1
TPH as Motor Oil Range	55	14	mg/Kg	₩	10/22/21 12:40	10/23/21 00:05	1
Surrogate n-Octacosane (Surr)	%Recovery Quality 104	Limits 50 - 150			Prepared 10/22/21 12:40	Analyzed 10/23/21 00:05	Dil Fac

Lab Sample ID: 570-72859-18 **Client Sample ID: S-5-H4** 

<b>Date Collected: 10/13/21 1</b>	3:15				_	Matri	ix: Solid
Date Received: 10/14/21 1	0:00						
Method: NWTPH-Gx - No	rthwest - Volatile Petroleum F	Products (GC)	)				
Analyto	Posult Qualifier	DI	Unit	n	Droparod	Analyzod	Dil Fac

Analyte TPH as Gasoline (C4-C13)	Result 110	Qualifier	RL 5.4	Unit mg/Kg	_ <del>D</del>	Prepared 10/15/21 13:00	Analyzed 10/18/21 16:35	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 73	Qualifier	Limits 50 - 150			Prepared 10/15/21 13:00	Analyzed 10/18/21 16:35	Dil Fac

Method: NWTPH-Dx - North	nwest - Semi-Volatile: Result Qualifie		ts (GC) - Silica Unit	i Gel ( D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2100	28	mg/Kg	=	10/22/21 12:40		5
TPH as Motor Oil Range	320	28	mg/Kg	₩	10/22/21 12:40	10/23/21 00:25	5
Surrogate	%Recovery Qualifie	er Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93	50 - 150			10/22/21 12:40	10/23/21 00:25	

Client Sample ID: S-7.5-H4

Date Collected: 10/13/21 13:20 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72859-19

**Matrix: Solid** 

Job ID: 570-72859-1

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.64		0.23	mg/Kg	— <u>∓</u>	10/15/21 13:00	10/18/21 14:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		50 - 150			10/15/21 13:00	10/18/21 14:35	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6.3		5.6	mg/Kg	<u></u>	10/22/21 12:40	10/23/21 00:45	1
TPH as Motor Oil Range	ND		5.6	mg/Kg	₩	10/22/21 12:40	10/23/21 00:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150			10/22/21 12:40	10/23/21 00:45	1

Lab Sample ID: 570-72859-20 Client Sample ID: S-2.5-I3 **Matrix: Solid** 

Date Collected: 10/13/21 13:25

Date Received: 10/14/21 10:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3.1		0.25	mg/Kg	<del>*</del>	10/15/21 13:00	10/18/21 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150			10/15/21 13:00	10/18/21 15:47	1

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	660		110	mg/Kg	<u></u>	10/22/21 12:40	10/23/21 01:04	20
TPH as Motor Oil Range	670		110	mg/Kg	₩	10/22/21 12:40	10/23/21 01:04	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	89		50 - 150			10/22/21 12:40	10/23/21 01:04	20

Lab Sample ID: 570-72859-21 **Client Sample ID: Trip Blank** Date Collected: 10/13/21 00:00 **Matrix: Water** 

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northw	est - Volatile	e Petroleur	n Products (G	C)				
Analyte TPH as Gasoline (C4-C13)	Result ND	Qualifier	RL 100	Unit ug/L	_ <u>D</u> .	Prepared	Analyzed 10/19/21 23:01	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 57	Qualifier	Limits 50 - 150		-	Prepared	Analyzed 10/19/21 23:01	Dil Fac

Client Sample ID: S-5-I3 Lab Sample ID: 570-72859-22 **Matrix: Solid** 

Date Collected: 10/13/21 13:30 Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Norti	hwest - Volatile P	Petroleun	n Products (G0	<b>S</b> )				
Analyte	Result Q	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	220		12	mg/Kg	<del>-</del>	10/15/21 13:00	10/18/21 20:48	50
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			10/15/21 13:00	10/18/21 20:48	50

**Client Sample ID: S-5-I3** Lab Sample ID: 570-72859-22

Date Collected: 10/13/21 13:30 **Matrix: Solid** Date Received: 10/14/21 10:00

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5000	58	mg/Kg	₩	10/21/21 21:31	10/22/21 23:45	10
TPH as Motor Oil Range	2000	58	mg/Kg	₩	10/21/21 21:31	10/22/21 23:45	10

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 10/21/21 21:31 10/22/21 23:45 n-Octacosane (Surr) 50 - 150 129

Client Sample ID: S-7.5-I3 Lab Sample ID: 570-72859-23 Date Collected: 10/13/21 13:35 **Matrix: Solid** 

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Norti	hwest - Volatile	Petroleui	m Products (GC	<b>;</b> )				
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.30		0.21	mg/Kg	<del>*</del>	10/15/21 13:00	10/18/21 16:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		50 - 150			10/15/21 13:00	10/18/21 16:11	1

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	110	5.9	mg/Kg	☆	10/21/21 21:31	10/23/21 00:06	1
TPH as Motor Oil Range	63	5.9	mg/Kg	₩	10/21/21 21:31	10/23/21 00:06	1
Surrogate	%Recovery Qua	alifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106	50 - 150			10/21/21 21:31	10/23/21 00:06	1

Client Sample ID: S-10-I3 Lab Sample ID: 570-72859-24 **Matrix: Solid** 

Date Collected: 10/13/21 13:40

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - North	west - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.20	mg/Kg	<del>*</del>	10/15/21 13:02	10/18/21 12:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		50 - 150			10/15/21 13:02	10/18/21 12:59	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.8	mg/Kg	<del>*</del>	10/21/21 21:31	10/23/21 00:27	1
TPH as Motor Oil Range	ND		5.8	mg/Kg	☼	10/21/21 21:31	10/23/21 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			10/21/21 21:31	10/23/21 00:27	1

Client Sample ID: S-2.5-H2 Lab Sample ID: 570-72859-25 Date Collected: 10/13/21 13:45 **Matrix: Solid** 

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northwe	st - Volatile Pet	troleum Products (	GC)				
Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	76	12	mg/Kg	<del>*</del>	10/15/21 13:00	10/18/21 21:12	50

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-H2 Lab Sample ID: 570-72859-25

Date Collected: 10/13/21 13:45

Matrix: Solid

Date Received: 10/14/21 10:00

Surrogate	%Recovery Qu	ualifier L	imits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72	5	50 - 150	10/15/21 13:00	10/18/21 21:12	50

Analyte	Result	Qualifier	roleum Product RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2200		58	mg/Kg	— <del>-</del>	10/21/21 21:31	10/23/21 00:47	10
TPH as Motor Oil Range	780		58	mg/Kg	≎	10/21/21 21:31	10/23/21 00:47	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		50 - 150			10/21/21 21:31	10/23/21 00:47	10

Client Sample ID: S-5-H2

Date Collected: 10/13/21 13:50

Lab Sample ID: 570-72859-26

Matrix: Solid

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - North	hwest - Volatile	Petroleui	m Products (GC	<del>;</del> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	270		26	mg/Kg	₩	10/15/21 13:00	10/18/21 21:59	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150			10/15/21 13:00	10/18/21 21:59	100

Method: NWTPH-Dx - North	thwest - Semi-Volat	tile Petroleum Produ	ıcts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qua	ialifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1700	28	mg/Kg	<del>*</del>	10/21/21 21:31	10/23/21 01:08	5
TPH as Motor Oil Range	680	28	mg/Kg	₩	10/21/21 21:31	10/23/21 01:08	5
Surrogate n-Octacosane (Surr)	%Recovery Qua	Limits 50 - 150			Prepared 10/21/21 21:31	Analyzed 10/23/21 01:08	Dil Fac

Client Sample ID: S-7.5-H2

Date Collected: 10/13/21 13:55

Lab Sample ID: 570-72859-27

Matrix: Solid

Date Collected: 10/13/21 13:55 Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northw	est - Volatile	Petroleun	n Products (G	C)				
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	870		250	mg/Kg	☼	10/15/21 13:00	10/19/21 03:04	1000
Surrogate  4-Bromofluorobenzene (Surr)	%Recovery 78	Qualifier	Limits 50 - 150			<b>Prepared</b> 10/15/21 13:00	Analyzed 10/19/21 03:04	<b>Dil Fac</b>

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Pe	troleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6200	29	mg/Kg	<del>-</del>	10/21/21 21:31	10/23/21 01:29	5
TPH as Motor Oil Range	920	29	mg/Kg	☼	10/21/21 21:31	10/23/21 01:29	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114	50 - 150			10/21/21 21:31	10/23/21 01:29	5

## **Client Sample Results**

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-10-H2 Lab Sample ID: 570-72859-28

Date Collected: 10/13/21 14:00 **Matrix: Solid** Date Received: 10/14/21 10:00

Method: NWTPH-Gx - North	nwest - Volatile Petrole	um Products (G	C)				
Analyte TPH as Gasoline (C4-C13)	Result Qualifier ND		Unit mg/Kg	— <u>D</u>	Prepared 10/15/21 13:02	Analyzed 10/18/21 14:11	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery Qualifier				Prepared 10/15/21 13:02	Analyzed 10/18/21 14:11	Dil Fac

Analyte		Qualifier	roleum Product RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND		79	mg/Kg	— <del>-</del>	10/21/21 21:31		
TPH as Motor Oil Range	170		79	mg/Kg	₩	10/21/21 21:31	10/23/21 01:50	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		50 - 150			10/21/21 21:31	10/23/21 01:50	5

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Total/NA

570-72859-1       S-         570-72859-2       S-         570-72859-3       S-         570-72859-4       S-         570-72859-5       S-         570-72859-6       S-         570-72859-7       S-         570-72859-8       S-         570-72859-9       S-         570-72859-10       S-         570-72859-11       S-         570-72859-12       S-         570-72859-13       S-         570-72859-14       S-         570-72859-15       S-         570-72859-16       S-         570-72859-18       S-         570-72859-19       S-	lient Sample ID -15-I8A -2.5-H6 -5-H6 -7.5-H6 -10-H6 -12.5-H6 -3.5-I7 -5-I7 -10-I7 -12.5-I7 -2.5-I5 -7.5-I5 -10-I5 -12.5-I5	BFB1 (50-150) 59 57 61 89 88 47 \$1- 72 83 88 128 97 91 93 91 80	
570-72859-1       S-         570-72859-2       S-         570-72859-3       S-         570-72859-4       S-         570-72859-5       S-         570-72859-6       S-         570-72859-7       S-         570-72859-8       S-         570-72859-9       S-         570-72859-10       S-         570-72859-11       S-         570-72859-12       S-         570-72859-13       S-         570-72859-15       S-         570-72859-16       S-         570-72859-17       S-         570-72859-18       S-         570-72859-19       S-	-15-I8A -2.5-H6 -5-H6 -7.5-H6 -10-H6 -12.5-H6 -3.5-I7 -5-I7 -10-I7 -12.5-I7 -2.5-I5 -5-I5 -7.5-I5 -10-I5	59 57 61 89 88 47 \$1- 72 83 88 128 97 91	
570-72859-2 570-72859-3 570-72859-4 570-72859-5 570-72859-6 570-72859-7 570-72859-9 570-72859-10 570-72859-12 570-72859-12 570-72859-13 570-72859-14 570-72859-15 570-72859-16 570-72859-17 570-72859-18 570-72859-18 5-70-72859-18 5-70-72859-19 5-70-72859-19	-2.5-H6 -5-H6 -7.5-H6 -10-H6 -12.5-H6 -3.5-I7 -5-I7 -10-I7 -12.5-I7 -2.5-I5 -5-I5 -7.5-I5 -10-I5	57 61 89 88 47 \$1- 72 83 88 128 97 91 93	
570-72859-3 570-72859-4 570-72859-5 570-72859-6 570-72859-7 570-72859-8 570-72859-9 570-72859-10 570-72859-12 570-72859-13 570-72859-14 570-72859-15 570-72859-15 570-72859-17 570-72859-17 570-72859-18 570-72859-18 570-72859-19 5-70-72859-19	-5-H6 -7.5-H6 -10-H6 -12.5-H6 -3.5-I7 -5-I7 -10-I7 -12.5-I7 -2.5-I5 -5-I5 -7.5-I5 -10-I5	61 89 88 47 \$1- 72 83 88 128 97 91 93	
\$70-72859-4 \$- \$70-72859-5 \$- \$70-72859-6 \$- \$70-72859-7 \$- \$70-72859-8 \$- \$70-72859-9 \$- \$70-72859-10 \$- \$70-72859-12 \$- \$70-72859-12 \$- \$70-72859-14 \$- \$70-72859-14 \$- \$70-72859-15 \$- \$70-72859-16 \$- \$70-72859-17 \$- \$70-72859-18 \$- \$70-72859-18 \$- \$70-72859-19	-7.5-H6 -10-H6 -12.5-H6 -3.5-I7 -5-I7 -10-I7 -12.5-I7 -2.5-I5 -5-I5 -7.5-I5 -10-I5	89 88 47 \$1- 72 83 88 128 97 91 93	
570-72859-5 570-72859-6 570-72859-7 570-72859-8 570-72859-9 570-72859-10 570-72859-11 5-70-72859-12 570-72859-14 5-70-72859-15 570-72859-15 570-72859-16 570-72859-17 5-70-72859-18 5-70-72859-18 5-70-72859-19 5-70-72859-19	-10-H6 -12.5-H6 -3.5-I7 -5-I7 -10-I7 -12.5-I7 -2.5-I5 -5-I5 -7.5-I5 -10-I5	88 47 S1- 72 83 88 128 97 91 93	
570-72859-6 S- 570-72859-7 S- 570-72859-8 S- 570-72859-9 S- 570-72859-10 S- 570-72859-11 S- 570-72859-12 S- 570-72859-13 S- 570-72859-14 S- 570-72859-15 S- 570-72859-16 S- 570-72859-17 S- 570-72859-18 S- 570-72859-19 S-	-12.5-H6 -3.5-I7 -5-I7 -10-I7 -12.5-I7 -15-I7 -2.5-I5 -5-I5 -7.5-I5 -10-I5	47 S1- 72 83 88 128 97 91 93	
570-72859-7 570-72859-8 570-72859-9 570-72859-10 570-72859-11 570-72859-12 570-72859-13 570-72859-14 570-72859-15 570-72859-16 570-72859-17 570-72859-18 5-70-72859-18 5-70-72859-19 5-70-72859-19	-3.5-17 -5-17 -10-17 -12.5-17 -15-17 -2.5-15 -5-15 -7.5-15 -10-15	72 83 88 128 97 91 93	
570-72859-8 S- 570-72859-9 S- 570-72859-10 S- 570-72859-11 S- 570-72859-12 S- 570-72859-13 S- 570-72859-14 S- 570-72859-15 S- 570-72859-16 S- 570-72859-17 S- 570-72859-18 S- 570-72859-19 S-	-5-17 -10-17 -12.5-17 -15-17 -2.5-15 -5-15 -7.5-15 -10-15	83 88 128 97 91 93	
570-72859-9 570-72859-10 570-72859-11 570-72859-12 570-72859-13 570-72859-14 570-72859-15 570-72859-16 570-72859-17 570-72859-18 5-70-72859-19 5-70-72859-19 5-70-72859-19	-10-I7 -12.5-I7 -15-I7 -2.5-I5 -5-I5 -7.5-I5 -10-I5	88 128 97 91 93 91	
570-72859-10 S- 570-72859-11 S- 570-72859-12 S- 570-72859-13 S- 570-72859-14 S- 570-72859-15 S- 570-72859-16 S- 570-72859-17 S- 570-72859-18 S- 570-72859-19 S-	-12.5-17 -15-17 -2.5-15 -5-15 -7.5-15 -10-15 -12.5-15	128 97 91 93 91	
570-72859-11 S- 570-72859-12 S- 570-72859-13 S- 570-72859-14 S- 570-72859-15 S- 570-72859-16 S- 570-72859-17 S- 570-72859-18 S- 570-72859-19 S-	-15-I7 -2.5-I5 -5-I5 -7.5-I5 -10-I5 -12.5-I5	97 91 93 91	
570-72859-12 S- 570-72859-13 S- 570-72859-14 S- 570-72859-15 S- 570-72859-16 S- 570-72859-17 S- 570-72859-18 S- 570-72859-19 S-	-2.5-15 -5-15 -7.5-15 -10-15 -12.5-15	91 93 91	
570-72859-13 S- 570-72859-14 S- 570-72859-15 S- 570-72859-16 S- 570-72859-17 S- 570-72859-18 S- 570-72859-19 S-	-5-15 -7.5-15 -10-15 -12.5-15	93 91	
570-72859-14 S- 570-72859-15 S- 570-72859-16 S- 570-72859-17 S- 570-72859-18 S- 570-72859-19 S-	-7.5-I5 -10-I5 -12.5-I5	91	
570-72859-15 S- 570-72859-16 S- 570-72859-17 S- 570-72859-18 S- 570-72859-19 S-	-10-l5 -12.5-l5		
570-72859-16 S- 570-72859-17 S- 570-72859-18 S- 570-72859-19 S-	-12.5-I5	80	
570-72859-16 S- 570-72859-17 S- 570-72859-18 S- 570-72859-19 S-	-12.5-I5		
570-72859-17 S- 570-72859-18 S- 570-72859-19 S-		90	
570-72859-18 S- 570-72859-19 S-	-12.5-I5-DUP	91	
570-72859-19 S-	-5-H4	73	
	-7.5-H4	120	
	-2.5-13	84	
	-5-I3	69	
	-7.5-13	106	
	-10-13	108	
	-2.5-H2	72	
	-5-H2	74	
	-7.5-H2	78	
	-10-H2	97	
	ab Control Sample	91	
	ab Control Sample	109	
	ab Control Sample	92	
	ab Control Sample	89	
	ab Control Sample	100	
	ab Control Sample	120	
	ab Control Sample Dup	98	
	ab Control Sample Dup	111	
	ab Control Sample Dup	97	
	ab Control Sample Dup	87	
	ab Control Sample Dup	104	
	ab Control Sample Dup	123	
	lethod Blank	72	
	lethod Blank		
	lethod Blank	103 96	
	lethod Blank	76	
	lethod Blank	80	
	lethod Blank lethod Blank	82 94	

BFB = 4-Bromofluorobenzene (Surr)

**Eurofins Calscience LLC** 

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Project/Site: ExxonMobil ADC/0314476040

Client: Cardno, Inc

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Water** Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-72859-21	Trip Blank	57	
570-72969-D-3 MS	Matrix Spike	89	
570-72969-D-3 MSD	Matrix Spike Duplicate	91	
LCS 570-187662/3	Lab Control Sample	91	
LCSD 570-187662/4	Lab Control Sample Dup	87	
MB 570-187662/5	Method Blank	56	
Surrogate Legend			
BFB = 4-Bromofluorob	enzene (Surr)		

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-72859-1	S-15-I8A	91	
570-72859-2	S-2.5-H6	94	
570-72859-3	S-5-H6	109	
570-72859-4	S-7.5-H6	102	
570-72859-5	S-10-H6	103	
570-72859-6	S-12.5-H6	92	
570-72859-7	S-3.5-I7	98	
570-72859-8	S-5-I7	97	
570-72859-8 MS	S-5-I7	89	
570-72859-8 MS	S-5-I7	88	
570-72859-8 MSD	S-5-17	69	
570-72859-8 MSD	S-5-17	93	
570-72859-9	S-10-I7	95	
570-72859-10	S-12.5-I7	95	
570-72859-11	S-15-I7	110	
570-72859-12	S-2.5-I5	100	
570-72859-13	S-5-I5	114	
570-72859-14	S-7.5-I5	98	
570-72859-15	S-10-I5	95	
570-72859-16	S-12.5-I5	97	
570-72859-17	S-12.5-I5-DUP	104	
570-72859-18	S-5-H4	93	
570-72859-19	S-7.5-H4	93	
570-72859-20	S-2.5-I3	89	
570-72859-22	S-5-I3	129	
570-72859-22 MS	S-5-I3	106	
570-72859-22 MS	S-5-I3	104	
570-72859-22 MSD	S-5-I3	114	
570-72859-22 MSD	S-5-I3	114	
570-72859-23	S-7.5-I3	106	
570-72859-24	S-10-I3	107	
570-72859-25	S-2.5-H2	113	
570-72859-26	S-5-H2	104	
570-72859-27	S-7.5-H2	114	
570-72859-28	S-10-H2	108	

## **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Silica Gel Cleanup

		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
LCS 570-188375/2-A	Lab Control Sample	102	
LCS 570-188375/6-A	Lab Control Sample	102	
LCS 570-188587/2-A	Lab Control Sample	95	
LCS 570-188587/6-A	Lab Control Sample	93	
LCSD 570-188375/3-A	Lab Control Sample Dup	99	
LCSD 570-188375/7-A	Lab Control Sample Dup	103	
LCSD 570-188587/3-A	Lab Control Sample Dup	92	
LCSD 570-188587/7-A	Lab Control Sample Dup	94	
MB 570-188375/1-A	Method Blank	103	
MB 570-188587/1-A	Method Blank	94	

10

OTCSN = n-Octacosane (Surr)

12

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-72859-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-187023/5 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187023** 

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 10/16/21 12:40

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 72 50 - 150 10/16/21 12:40

Lab Sample ID: LCS 570-187023/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187023** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 2.13 2.136 100 77 - 128

TPH as Gasoline (C4-C13) mg/Kg LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 91

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-187023/4 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187023** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.13 2.151 101 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 98 50 - 150

Lab Sample ID: MB 570-187196/5

**Matrix: Solid** 

**Analysis Batch: 187196** 

MB MB RL Unit Analyte Result Qualifier Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.25 10/18/21 12:07 mg/Kg

MB MB Qualifier %Recovery Dil Fac Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 10/18/21 12:07 103

Lab Sample ID: MB 570-187196/6

**Matrix: Solid** 

**Analysis Batch: 187196** 

MB MB Result Qualifier RL D Analyte Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 10/18/21 12:31 20

MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 96 50 - 150 10/18/21 12:31 4-Bromofluorobenzene (Surr) 20

Client Sample ID: Method Blank

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

Prep Type: Total/NA

Client: Cardno, Inc

Job ID: 570-72859-1 Project/Site: ExxonMobil ADC/0314476040

Spike

Added

Spike

Added

Limits

2.12

RL

5.0

Limits

Spike

Added

Limits

50 - 150

Spike

Added

2.12

2.12

50 - 150

LCS LCS

LCSD LCSD

LCS LCS

LCSD LCSD

1.829

1.862

Result Qualifier

Result Qualifier

2.268

Result Qualifier

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-187196/3

**Matrix: Solid** 

Analyte

Analysis Batch: 187196

TPH as Gasoline (C4-C13) 2.12 LCS LCS

Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr)

Limits 109 50 - 150

Lab Sample ID: LCSD 570-187196/4

**Matrix: Solid** 

Analysis Batch: 187196

Analyte

TPH as Gasoline (C4-C13)

4-Bromofluorobenzene (Surr)

%Recovery Qualifier

MB MB

MB MB

Result

%Recovery

LCS LCS %Recovery Qualifier

92

 $\overline{\mathsf{ND}}$ 

76

Qualifier

Qualifier

LCSD LCSD

Lab Sample ID: MB 570-187202/6

**Matrix: Solid** 

**Analysis Batch: 187202** 

Analyte

TPH as Gasoline (C4-C13)

Surrogate 4-Bromofluorobenzene (Surr)

Lab Sample ID: LCS 570-187202/3

**Matrix: Solid** 

**Analysis Batch: 187202** 

Analyte TPH as Gasoline (C4-C13)

Surrogate 4-Bromofluorobenzene (Surr)

**Matrix: Solid** 

Lab Sample ID: LCSD 570-187202/4

**Analysis Batch: 187202** 

Analyte TPH as Gasoline (C4-C13)

LCSD LCSD Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr)

97

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

%Rec. Limits %Rec

107 77 - 128

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

RPD %Rec. Unit %Rec Limits RPD Limit 111 77 - 128 3

2.348 mg/Kg

Unit

mg/Kg

Unit

mg/Kg

50 - 150 Client Sample ID: Method Blank

Prep Type: Total/NA

Analyzed Dil Fac

10/18/21 13:05

Analyzed

10/18/21 13:05 20

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

Dil Fac

%Rec.

Prepared

Prepared

Limits Unit D %Rec

88 77 - 128 mg/Kg

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

%Rec. **RPD** Result Qualifier

%Rec Limits RPD Limit Unit mg/Kg 86 77 - 128

Limits 50 - 150

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-187353/34 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187353** 

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 10/19/21 00:43 20

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 80 50 - 150 10/19/21 00:43

Lab Sample ID: LCS 570-187353/31 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187353** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.13 1.697 mg/Kg 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 89

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-187353/32 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187353** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit mg/Kg TPH as Gasoline (C4-C13) 2.13 1.819 85 77 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 87 50 - 150

Lab Sample ID: MB 570-187511/10

**Matrix: Solid** 

**Analysis Batch: 187511** 

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.25 10/19/21 14:40 mg/Kg

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 10/19/21 14:40 82

Lab Sample ID: LCS 570-187511/6

**Matrix: Solid** 

**Analysis Batch: 187511** 

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec 2.12 77 - 128 TPH as Gasoline (C4-C13) 2.103 mg/Kg 99

LCS LCS

Surrogate %Recovery Qualifier Limits 100 50 - 150 4-Bromofluorobenzene (Surr)

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

**Prep Type: Total/NA** 

Prep Type: Total/NA

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: LCSD 570-187511/7

Job ID: 570-72859-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 187511

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	 2.12	2.140		mg/Kg		101	77 - 128	2	16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 104

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

Lab Sample ID: MB 570-187662/5

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ug/L			10/19/21 18:52	1

MR MR

	וו טווו					
Surrogate	%Recovery (	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56		50 - 150		10/19/21 18:52	1

Lab Sample ID: LCS 570-187662/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier Un	nit D	%Rec	Limits	
TPH as Gasoline (C4-C13)	2130	2099	ug	/L	99	76 - 128	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 91 50 - 150

Lab Sample ID: LCSD 570-187662/4 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 187662** 

_	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2130	2111		ug/L		99	76 - 128	1	10

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 87

Lab Sample ID: 570-72969-D-3 MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	ND		2130	2070		ug/L		97	69 - 132	 -

MS MS

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	89	

Project/Site: ExxonMobil ADC/0314476040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-72969-D-3 MSD **Client Sample ID: Matrix Spike Duplicate** Prep Type: Total/NA

**Matrix: Water** 

Client: Cardno, Inc

**Analysis Batch: 187662** 

RPD Sample Sample Spike MSD MSD %Rec. Result Qualifier Result Qualifier Added %Rec Limits RPD Limit Analyte Unit TPH as Gasoline (C4-C13) ND 2130 2120 ug/L 100 69 - 132 2 15

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: MB 570-189079/6 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 189079** 

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 10/25/21 14:54 20

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 94 50 - 150 10/25/21 14:54

Lab Sample ID: LCS 570-189079/3

**Matrix: Solid** 

**Analysis Batch: 189079** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits

TPH as Gasoline (C4-C13) 2.13 2.184 102 77 - 128 mg/Kg

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 120 50 - 150

Lab Sample ID: LCSD 570-189079/4

**Matrix: Solid** 

**Analysis Batch: 189079** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Gasoline (C4-C13) 2.13 2.216 104 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 123

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid

**Analysis Batch: 188558** 

Lab Sample ID: MB 570-188375/1-A

**Client Sample ID: Method Blank** Prep Type: Silica Gel Cleanup **Prep Batch: 188375** 

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range		5.0	mg/Kg		10/21/21 21:31	10/22/21 19:17	1
TPH as Motor Oil Range	ND	5.0	mg/Kg		10/21/21 21:31	10/22/21 19:17	1

MB MB

MB MB

Qualifier %Recovery Limits Dil Fac Surrogate Prepared Analyzed 10/21/21 21:31 10/22/21 19:17 50 - 150 n-Octacosane (Surr) 103

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-72859-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-188375/2-A **Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup **Matrix: Solid** 

426.9

LCS LCS

Analyte

**Analysis Batch: 188558** 

TPH as Diesel (C10-C28)

**Prep Batch: 188375** Spike LCS LCS %Rec. Added Result Qualifier Limits Unit %Rec

mg/Kg

LCS LCS

Surrogate

%Recovery Qualifier Limits 102 50 - 150

Lab Sample ID: LCS 570-188375/6-A **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

n-Octacosane (Surr)

Analysis Batch: 188558

Prep Type: Silica Gel Cleanup

76 - 126

107

**Prep Batch: 188375** %Rec.

Spike Analyte Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 400 408.0 mg/Kg 102 71 - 139

400

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 102 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-188375/3-A

**Matrix: Solid** 

**Analysis Batch: 188558** 

**Prep Type: Silica Gel Cleanup** 

**Prep Batch: 188375** 

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 400 413.1 103 76 - 126 mg/Kg

LCSD LCSD

%Recovery Qualifier Limits Surrogate

n-Octacosane (Surr) 99 50 - 150

Lab Sample ID: LCSD 570-188375/7-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 188558** 

**Prep Type: Silica Gel Cleanup** 

**Prep Batch: 188375** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits Analyte Unit D %Rec RPD Limit TPH as Motor Oil (C17-C44) 400 420.1 105 71 - 139 mg/Kg

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150 103

Lab Sample ID: 570-72859-22 MS

**Matrix: Solid** 

**Analysis Batch: 188558** 

Client Sample ID: S-5-I3 Prep Type: Silica Gel Cleanup

> **Prep Batch: 188375** %Rec.

Sample Sample Spike MS MS Result Qualifier habb∆ Result Qualifier Limits Analyte Unit D %Rec 37 - 175 TPH as Diesel (C10-C28) 5500 458 5600 4 mg/Kg 20

MS MS

Surrogate %Recovery Qualifier Limits 106 50 - 150 n-Octacosane (Surr)

Project/Site: ExxonMobil ADC/0314476040

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-72859-22 MS Client Sample ID: S-5-I3

MS MS

**Matrix: Solid** 

Client: Cardno, Inc

**Analysis Batch: 188558** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 188375** %Rec.

Result Qualifier Result Qualifier Added Limits Analyte Unit D %Rec 71 - 174 TPH as Motor Oil (C17-C44) 4400 439 4358 4 mg/Kg -3

Spike

MS MS

Sample Sample

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 104 50 - 150

Lab Sample ID: 570-72859-22 MSD Client Sample ID: S-5-I3

Prep Type: Silica Gel Cleanup **Matrix: Solid Analysis Batch: 188558 Prep Batch: 188375** 

RPD %Rec.

Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 5500 443 5648 4 mg/Kg 31 37 - 175

MSD MSD

%Recovery Surrogate Qualifier Limits n-Octacosane (Surr) 114 50 - 150

Client Sample ID: S-5-I3 Lab Sample ID: 570-72859-22 MSD **Matrix: Solid** Prep Type: Silica Gel Cleanup

**Analysis Batch: 188558** 

**Prep Batch: 188375** 

Spike MSD MSD %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits RPD Limit %Rec TPH as Motor Oil (C17-C44) 4400 463 5253 4 mg/Kg 190 71 - 174

MSD MSD

Qualifier Limits Surrogate %Recovery n-Octacosane (Surr) 114 50 - 150

Lab Sample ID: MB 570-188587/1-A

**Matrix: Solid** 

**Analysis Batch: 188570** 

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup

**Prep Batch: 188587** 

MB MB RL Unit Analyte Result Qualifier D Prepared Analyzed Dil Fac TPH as Diesel Range 5.0 mg/Kg 10/22/21 12:40 10/22/21 15:12 ND TPH as Motor Oil Range ND 5.0 mg/Kg 10/22/21 12:40 10/22/21 15:12

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed n-Octacosane (Surr) 94 50 - 150 10/22/21 12:40 10/22/21 15:12

Lab Sample ID: LCS 570-188587/2-A

**Matrix: Solid** 

**Analysis Batch: 188570** 

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup

**Prep Batch: 188587** %Rec.

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 400.2 mg/Kg 100 76 - 126

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 95 50 - 150

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: LCS 570-188587/6-A

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Added

400

**Client Sample ID: Lab Control Sample** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 188587** 

%Rec.

Limits

Result Qualifier Unit %Rec mg/Kg 101 71 - 139

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-188587/3-A Prep Type: Silica Gel Cleanup

**Matrix: Solid** 

Client: Cardno, Inc

**Matrix: Solid** 

Analyte

**Analysis Batch: 188570** 

**Analysis Batch: 188570** 

TPH as Motor Oil (C17-C44)

**Prep Batch: 188587** LCSD LCSD RPD Spike %Rec.

LCS LCS

404.8

Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 400 393.9 mg/Kg 98 76 - 126 2

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 92 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-188587/7-A

**Matrix: Solid** 

**Prep Type: Silica Gel Cleanup Analysis Batch: 188570 Prep Batch: 188587** 

Spike LCSD LCSD %Rec. RPD %Rec Analyte Added Result Qualifier Unit Limits RPD Limit TPH as Motor Oil (C17-C44) 400 390.8 71 - 139 mg/Kg

LCSD LCSD

Limits Surrogate **%Recovery Qualifier** n-Octacosane (Surr) 94 50 - 150

Lab Sample ID: 570-72859-8 MS

**Matrix: Solid** 

**Analysis Batch: 188570** 

Client Sample ID: S-5-I7 Prep Type: Silica Gel Cleanup

**Prep Batch: 188587** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec

TPH as Diesel (C10-C28) 60 F2 470 496.4 93 37 - 175 mg/Kg

MS MS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150 89

Lab Sample ID: 570-72859-8 MS

**Matrix: Solid** 

**Analysis Batch: 188570** 

Client Sample ID: S-5-I7 Prep Type: Silica Gel Cleanup **Prep Batch: 188587** 

Sample Sample Spike MS MS %Rec. Result Qualifier babb∆ Result Qualifier Limits Analyte Unit %Rec TPH as Motor Oil (C17-C44) 52 F2 71 - 174 434 692.5 mg/Kg 147

MS MS

Surrogate %Recovery Qualifier Limits 50 - 150 n-Octacosane (Surr) 88

## **QC Sample Results**

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

n-Octacosane (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

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	Lab Sample ID: 570-72859 Matrix: Solid Analysis Batch: 188570								Client Sample ID: S-5-I7 Prep Type: Silica Gel Cleanup Prep Batch: 188587				
		Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
	TPH as Diesel (C10-C28)	60	F2	436	264.2	F2	mg/Kg	<u></u>	47	37 - 175	61	20	
		MSD	MSD										
ı	Surrogate	%Recovery	Qualifier	l imits									

Lab Sample ID: 570-72859 Matrix: Solid Analysis Batch: 188570	9-8 MSD	MSD					Client Sample ID: S-5-I7 Prep Type: Silica Gel Cleanup Prep Batch: 188587				
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	52	F2	454	460.8	F2	mg/Kg	<u></u>	90	71 - 174	40	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	93		50 - 150								

50 - 150

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

### **GC VOA**

### **Prep Batch: 186862**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-1	S-15-I8A	Total/NA	Solid	5035	
570-72859-2	S-2.5-H6	Total/NA	Solid	5035	
570-72859-3	S-5-H6	Total/NA	Solid	5035	
570-72859-6	S-12.5-H6	Total/NA	Solid	5035	
570-72859-8	S-5-17	Total/NA	Solid	5035	
570-72859-11	S-15-I7	Total/NA	Solid	5035	
570-72859-16	S-12.5-I5	Total/NA	Solid	5035	
570-72859-17	S-12.5-I5-DUP	Total/NA	Solid	5035	
570-72859-19	S-7.5-H4	Total/NA	Solid	5035	
570-72859-20	S-2.5-I3	Total/NA	Solid	5035	
570-72859-23	S-7.5-I3	Total/NA	Solid	5035	
570-72859-24	S-10-I3	Total/NA	Solid	5035	
570-72859-28	S-10-H2	Total/NA	Solid	5035	

### **Prep Batch: 186863**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-4	S-7.5-H6	Total/NA	Solid	5035	
570-72859-5	S-10-H6	Total/NA	Solid	5035	
570-72859-7	S-3.5-I7	Total/NA	Solid	5035	
570-72859-9	S-10-I7	Total/NA	Solid	5035	
570-72859-10	S-12.5-I7	Total/NA	Solid	5035	
570-72859-12	S-2.5-I5	Total/NA	Solid	5035	
570-72859-13	S-5-I5	Total/NA	Solid	5035	
570-72859-14	S-7.5-I5	Total/NA	Solid	5035	
570-72859-15	S-10-I5	Total/NA	Solid	5035	
570-72859-18	S-5-H4	Total/NA	Solid	5035	
570-72859-22	S-5-I3	Total/NA	Solid	5035	
570-72859-25	S-2.5-H2	Total/NA	Solid	5035	
570-72859-26	S-5-H2	Total/NA	Solid	5035	
570-72859-27	S-7.5-H2	Total/NA	Solid	5035	

### **Analysis Batch: 187023**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-1	S-15-I8A	Total/NA	Solid	NWTPH-Gx	186862
570-72859-2	S-2.5-H6	Total/NA	Solid	NWTPH-Gx	186862
570-72859-3	S-5-H6	Total/NA	Solid	NWTPH-Gx	186862
MB 570-187023/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-187023/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-187023/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

# **Analysis Batch: 187196**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-8	S-5-I7	Total/NA	Solid	NWTPH-Gx	186862
570-72859-11	S-15-I7	Total/NA	Solid	NWTPH-Gx	186862
570-72859-16	S-12.5-I5	Total/NA	Solid	NWTPH-Gx	186862
570-72859-17	S-12.5-I5-DUP	Total/NA	Solid	NWTPH-Gx	186862
570-72859-18	S-5-H4	Total/NA	Solid	NWTPH-Gx	186863
570-72859-19	S-7.5-H4	Total/NA	Solid	NWTPH-Gx	186862
570-72859-20	S-2.5-I3	Total/NA	Solid	NWTPH-Gx	186862
570-72859-23	S-7.5-I3	Total/NA	Solid	NWTPH-Gx	186862
570-72859-24	S-10-I3	Total/NA	Solid	NWTPH-Gx	186862

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Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

# **GC VOA (Continued)**

### **Analysis Batch: 187196 (Continued)**

<b>Lab Sample ID</b> 570-72859-28	Client Sample ID S-10-H2	Prep Type Total/NA	Matrix Solid	Method NWTPH-Gx	Prep Batch 186862
MB 570-187196/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-187196/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-187196/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-187196/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 187202**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-7	S-3.5-I7	Total/NA	Solid	NWTPH-Gx	186863
570-72859-10	S-12.5-I7	Total/NA	Solid	NWTPH-Gx	186863
570-72859-12	S-2.5-I5	Total/NA	Solid	NWTPH-Gx	186863
570-72859-22	S-5-I3	Total/NA	Solid	NWTPH-Gx	186863
570-72859-25	S-2.5-H2	Total/NA	Solid	NWTPH-Gx	186863
570-72859-26	S-5-H2	Total/NA	Solid	NWTPH-Gx	186863
MB 570-187202/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-187202/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-187202/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 187353**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-4	S-7.5-H6	Total/NA	Solid	NWTPH-Gx	186863
570-72859-5	S-10-H6	Total/NA	Solid	NWTPH-Gx	186863
570-72859-9	S-10-I7	Total/NA	Solid	NWTPH-Gx	186863
570-72859-14	S-7.5-I5	Total/NA	Solid	NWTPH-Gx	186863
570-72859-15	S-10-I5	Total/NA	Solid	NWTPH-Gx	186863
570-72859-27	S-7.5-H2	Total/NA	Solid	NWTPH-Gx	186863
MB 570-187353/34	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-187353/31	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-187353/32	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 187511**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-6	S-12.5-H6	Total/NA	Solid	NWTPH-Gx	186862
MB 570-187511/10	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-187511/6	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-187511/7	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 187662**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-21	Trip Blank	Total/NA	Water	NWTPH-Gx	
MB 570-187662/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 570-187662/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 570-187662/4	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MS	Matrix Spike	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	NWTPH-Gx	

### **Analysis Batch: 189079**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-13	S-5-I5	Total/NA	Solid	NWTPH-Gx	186863
MB 570-189079/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-189079/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	

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Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

# **GC VOA (Continued)**

### **Analysis Batch: 189079 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-189079/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **GC Semi VOA**

### **Prep Batch: 188375**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-22	S-5-I3	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-23	S-7.5-I3	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-24	S-10-l3	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-25	S-2.5-H2	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-26	S-5-H2	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-27	S-7.5-H2	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-28	S-10-H2	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-188375/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188375/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188375/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-188375/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-188375/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-22 MS	S-5-I3	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-22 MS	S-5-I3	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-22 MSD	S-5-I3	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-22 MSD	S-5-I3	Silica Gel Cleanup	Solid	3550C SGC	

# Analysis Batch: 188558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-22	S-5-I3	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-23	S-7.5-I3	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-24	S-10-I3	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-25	S-2.5-H2	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-26	S-5-H2	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-27	S-7.5-H2	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-28	S-10-H2	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
MB 570-188375/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
LCS 570-188375/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
LCS 570-188375/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
LCSD 570-188375/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
LCSD 570-188375/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-22 MS	S-5-I3	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-22 MS	S-5-I3	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-22 MSD	S-5-I3	Silica Gel Cleanup	Solid	NWTPH-Dx	188375
570-72859-22 MSD	S-5-I3	Silica Gel Cleanup	Solid	NWTPH-Dx	188375

### **Analysis Batch: 188570**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-1	S-15-I8A	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-2	S-2.5-H6	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-3	S-5-H6	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-4	S-7.5-H6	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-5	S-10-H6	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-6	S-12.5-H6	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-7	S-3.5-I7	Silica Gel Cleanup	Solid	NWTPH-Dx	188587

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

# GC Semi VOA (Continued)

### **Analysis Batch: 188570 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-8	S-5-17	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-9	S-10-I7	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-10	S-12.5-I7	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-11	S-15-I7	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-12	S-2.5-I5	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-13	S-5-I5	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-14	S-7.5-I5	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-15	S-10-I5	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-16	S-12.5-I5	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-17	S-12.5-I5-DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-18	S-5-H4	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-19	S-7.5-H4	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-20	S-2.5-I3	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
MB 570-188587/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
LCS 570-188587/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
LCS 570-188587/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
LCSD 570-188587/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
LCSD 570-188587/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-8 MS	S-5-17	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-8 MS	S-5-17	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-8 MSD	S-5-I7	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-8 MSD	S-5-17	Silica Gel Cleanup	Solid	NWTPH-Dx	188587

### **Prep Batch: 188587**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-1	S-15-I8A	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-2	S-2.5-H6	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-3	S-5-H6	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-4	S-7.5-H6	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-5	S-10-H6	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-6	S-12.5-H6	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-7	S-3.5-17	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-8	S-5-17	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-9	S-10-I7	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-10	S-12.5-I7	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-11	S-15-I7	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-12	S-2.5-15	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-13	S-5-I5	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-14	S-7.5-15	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-15	S-10-I5	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-16	S-12.5-I5	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-17	S-12.5-I5-DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-18	S-5-H4	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-19	S-7.5-H4	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-20	S-2.5-I3	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-188587/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188587/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188587/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-188587/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-188587/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-8 MS	S-5-I7	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

# GC Semi VOA (Continued)

### Prep Batch: 188587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-8 MS	S-5-I7	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-8 MSD	S-5-17	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-8 MSD	S-5-17	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-15-I8A

Date Collected: 10/13/21 11:00 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72859-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.379 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	187023	10/16/21 16:26	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			7.51 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188570	10/22/21 18:08	A1W	ECL 1
	Instrumer	it ID: GC50								

Client Sample ID: S-2.5-H6 Lab Sample ID: 570-72859-2 Date Collected: 10/13/21 11:15 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.062 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187023	10/16/21 16:50	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.00 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188570	10/22/21 18:28	A1W	ECL 1
	Instrumer	t ID: GC50								

**Client Sample ID: S-5-H6** Lab Sample ID: 570-72859-3 Date Collected: 10/13/21 11:20 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.52 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187023	10/16/21 18:00	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.81 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188570	10/22/21 18:47	A1W	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-7.5-H6 Lab Sample ID: 570-72859-4 Date Collected: 10/13/21 11:25 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.335 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	187353	10/19/21 01:07	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.34 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188570	10/22/21 19:07	A1W	ECL 1
	Instrumen	t ID: GC50								

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-10-H6

Date Collected: 10/13/21 11:30 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72859-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.474 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		250	5 mL	5 mL	187353	10/19/21 01:30	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.67 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx		10			188570	10/22/21 19:27	A1W	ECL 1

Client Sample ID: S-12.5-H6 Lab Sample ID: 570-72859-6 Date Collected: 10/13/21 11:35 Matrix: Solid

Date Received: 10/14/21 10:00

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5 g Prep 5035 4.745 g 186862 10/15/21 13:00 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 187511 10/19/21 18:18 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup 3550C SGC 6.61 g 10 mL 188587 10/22/21 12:40 N5Y3 ECL 1 Silica Gel Cleanup NWTPH-Dx 188570 10/22/21 19:47 A1W ECL 1 Analysis Instrument ID: GC50

Client Sample ID: S-3.5-I7 Date Collected: 10/13/21 11:40

Date Received: 10/14/21 10:00

Lab Sample ID: 570-72859-7 **Matrix: Solid** 

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.112 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	187202	10/18/21 21:35	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.31 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188570	10/22/21 20:06	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-I7 Lab Sample ID: 570-72859-8

Date Collected: 10/13/21 11:45 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.397 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187196	10/18/21 13:23	A9VE	ECL 2
	Instrumer	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.43 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188570	10/22/21 20:26	A1W	ECL 1
	Instrumer	t ID: GC50								

**Eurofins Calscience LLC** 

**Matrix: Solid** 

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

**Client Sample ID: S-10-I7** 

Lab Sample ID: 570-72859-9

**Matrix: Solid** 

Date Collected: 10/13/21 11:50 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.439 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	187353	10/19/21 01:54	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			6.17 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188570	10/22/21 20:46	A1W	ECL 1
	Instrumer	nt ID: GC50								

Lab Sample ID: 570-72859-10

**Matrix: Solid** 

Date Collected: 10/13/21 11:55 Date Received: 10/14/21 10:00

Client Sample ID: S-12.5-I7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.597 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx t ID: GC57		20	5 mL	5 mL	187202	10/18/21 20:01	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx t ID: GC50		1			188570	10/22/21 21:06	A1W	ECL 1

**Client Sample ID: S-15-I7** Lab Sample ID: 570-72859-11

Date Collected: 10/13/21 12:00 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.639 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187196	10/18/21 13:47	A9VE	ECL 2
	Instrumer	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			5.10 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188570	10/22/21 22:06	A1W	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-2.5-I5 Lab Sample ID: 570-72859-12 **Matrix: Solid** 

Date Collected: 10/13/21 12:05 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.757 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	187202	10/18/21 20:25	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188570	10/22/21 22:25	A1W	ECL 1
	Instrumen	t ID: GC50								

Client: Cardno, Inc Project/Site: ExxonMobil ADC/0314476040

**Client Sample ID: S-5-I5** 

Date Collected: 10/13/21 12:10 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72859-13

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.968 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC1		50	5 mL	5 mL	189079	10/26/21 00:23	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.17 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188570	10/22/21 22:45	A1W	ECL 1
	Instrumer	it ID: GC50								

Client Sample ID: S-7.5-I5

Date Collected: 10/13/21 12:15

Date Received: 10/14/21 10:00

Lab Sample ID: 570-72859-14

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.22 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		500	5 mL	5 mL	187353	10/19/21 02:17	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.74 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx at ID: GC50		10			188570	10/22/21 23:05	A1W	ECL 1

**Client Sample ID: S-10-I5** 

Date Collected: 10/13/21 12:20

Date Received: 10/14/21 10:00

Lab Sample ID: 570-72859-15

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.513 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1000	5 mL	5 mL	187353	10/19/21 02:40	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			3.15 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188570	10/22/21 23:25	A1W	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-12.5-I5

Date Collected: 10/13/21 12:25

Date Received: 10/14/21 10:00

Lab Sample ID: 570-72859-16

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.953 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187196	10/18/21 14:59	A9VE	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			8.74 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188570	10/22/21 23:45	A1W	ECL 1
	Instrumen	t ID: GC50								

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-12.5-I5-DUP

Date Collected: 10/13/21 12:30

Date Received: 10/14/21 10:00

Lab Sample ID: 570-72859-17

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.222 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187196	10/18/21 15:23	A9VE	ECL 2
	Instrumer	nt ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			5.87 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188570	10/23/21 00:05	A1W	ECL 1
	Instrumer	nt ID: GC50								

Dil

20

5

**Factor** 

Run

Initial

Amount

5.191 g

5 mL

10.10 g

Final

Amount

5 mL

5 mL

10 mL

188570

Client Sample ID: S-5-H4

Date Collected: 10/13/21 13:15

**Prep Type** 

Total/NA

Total/NA

Silica Gel Cleanup

Silica Gel Cleanup

Date Received: 10/14/21 10:00

Batch

Type

Prep

Prep

Analysis

Analysis

**Batch** 

5035

Instrument ID: GC53

Method

**NWTPH-Gx** 

3550C SGC

NWTPH-Dx

Batch	Prepared		
Number	or Analyzed	Analyst	Lab
186863	10/15/21 13:00	YZL3	ECL 2
187196	10/18/21 16:35	A9VE	ECL 2
188587	10/22/21 12:40	N5Y3	FCI 1

10/23/21 00:25 A1W

Lab Sample ID: 570-72859-18

Instrument ID: GC50

Client Sample ID: S-7.5-H4 Date Collected: 10/13/21 13:20

Date Received: 10/14/21 10:00

b Sample ID: 570-72859-19
---------------------------

Lab Sample ID: 570-72859-20

**Matrix: Solid** 

**Matrix: Solid** 

ECL 1

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.066 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187196	10/18/21 14:35	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188570	10/23/21 00:45	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-I3

Date Collected: 10/13/21 13:25

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.558 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187196	10/18/21 15:47	A9VE	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		20			188570	10/23/21 01:04	A1W	ECL 1
	Instrumen	t ID: GC50								

### **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

**Client Sample ID: Trip Blank** 

Lab Sample ID: 570-72859-21 Date Collected: 10/13/21 00:00 **Matrix: Water** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/19/21 23:01	P1R	ECL 2
	Instrumer	nt ID: GC25								

Lab Sample ID: 570-72859-22 Client Sample ID: S-5-I3

Date Collected: 10/13/21 13:30 Matrix: Solid

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.169 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	187202	10/18/21 20:48	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.78 g	10 mL	188375	10/21/21 21:31	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188558	10/22/21 23:45	N5Y3	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-7.5-I3 Lab Sample ID: 570-72859-23 Matrix: Solid

Date Collected: 10/13/21 13:35

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.798 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187196	10/18/21 16:11	A9VE	ECL 2
	Instrumer	nt ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.67 g	10 mL	188375	10/21/21 21:31	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188558	10/23/21 00:06	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: S-10-I3** Lab Sample ID: 570-72859-24 **Matrix: Solid** 

Date Collected: 10/13/21 13:40

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.967 g	5 g	186862	10/15/21 13:02	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187196	10/18/21 12:59	A9VE	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.55 g	10 mL	188375	10/21/21 21:31	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188558	10/23/21 00:27	N5Y3	ECL 1
	Instrumen	t ID: GC48								

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-H2 Lab Sample ID: 570-72859-25

Date Collected: 10/13/21 13:45

Date Received: 10/14/21 10:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.008 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC57		50	5 mL	5 mL	187202	10/18/21 21:12	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.04 g	10 mL	188375	10/21/21 21:31	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188558	10/23/21 00:47	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-5-H2

Date Collected: 10/13/21 13:50

Lab Sample ID: 570-72859-26

Matrix: Solid

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.485 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	187202	10/18/21 21:59	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.29 g	10 mL	188375	10/21/21 21:31	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188558	10/23/21 01:08	N5Y3	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-7.5-H2

Date Collected: 10/13/21 13:55

Lab Sample ID: 570-72859-27

Matrix: Solid

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.152 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1000	5 mL	5 mL	187353	10/19/21 03:04	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.40 g	10 mL	188375	10/21/21 21:31	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188558	10/23/21 01:29	N5Y3	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-H2

Date Collected: 10/13/21 14:00

Lab Sample ID: 570-72859-28

Matrix: Solid

Date Collected: 10/13/21 14:00 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.379 g	5 g	186862	10/15/21 13:02	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187196	10/18/21 14:11	A9VE	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			6.27 g	10 mL	188375	10/21/21 21:31	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188558	10/23/21 01:50	N5Y3	ECL 1
	Instrumen	t ID: GC48								

**Laboratory References:** 

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Eurofins Calscience LLC

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# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-72859-1

Project/Site: ExxonMobil ADC/0314476040

### **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-12-22

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# **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Method **Method Description** Protocol Laboratory NWTPH-Gx NWTPH Northwest - Volatile Petroleum Products (GC) ECL 2 NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC) **NWTPH** ECL 1 3550C SGC SW846 ECL 1 Ultrasonic Extraction 5030C Purge and Trap SW846 ECL 2

### **Protocol References:**

5035

NWTPH = Northwest Total Petroleum Hydrocarbon

Closed System Purge and Trap

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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Job ID: 570-72859-1

ECL 2

SW846

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### de Guia, Cecile

From: Laina Cole <laina.cole@cardno.com> Sent: Thursday, November 11, 2021 3:38 PM

To: de Guia, Cecile; Cam Penner-Ash; Bobby Thompson

Subject: RE: Eurofins Calscience report, EDD and invoice files from 570-72859-1 ExxonMobil

ADC/0314476040

**Follow Up Flag:** Follow up Flag Status: Flagged

**EXTERNAL EMAIL*** 

### Hi Cecile,

Sample S-2.5-I3 on the COC was reported as S-2.5-H3. Please reissue the report with the correct sample ID of S-2.5-13. Please call with questions.

2 5-2.5-13	J-2.5-I3	10/13/2021	1325
	N F		-

Client Sample ID: S-2.5	-H3				La	ab Sample	ID: 570-728	59-20
Date Collected: 10/13/21 13:	25					A TVO See	Matrix	: Solid
Date Received: 10/14/21 10:	00							
Method: NWTPH-Gx - North	hwest - Volatile	Petroleur	n Products (GC					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3.1		0.25	mg/Kg	0	10/15/21 13:00	10/18/21 15:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50_150			10/15/21 13:00	10/18/21 15:47	1
Method: NWTPH-Dx - North	nwest - Semi-V	olatile Pet	roleum Product	ts (GC) - Silica	Gel	Cleanup		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	660		110	mg/Kg	0	10/22/21 12:40	10/23/21 01:04	20
TPH as Motor Oil Range	670		110	mg/Kg	0	10/22/21 12:40	10/23/21 01:04	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	89		50_150			10/22/21 12:40	10/23/21 01:04	20

### Thank you,

### Laina Cole

SENIOR PROGRAM COORDINATOR | BRANCH SAFETY OFFICER **CARDNO** 

Direct +1 206 394 7225 Office +1 800 499 8950 Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108

Email laina.cole@cardno.com Web www.cardno.com

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•	eurofins				P/	Site Name	me			Bulk Plant Beressonsonenummensonsesses	CHAIN OF CL	ORD
		Calscience	GARDEN GROVE, CA S2841-1432 TEL: (714) 896-5494. FAX. (714) 894-7601	. (714) 894-7501		etail Pr	Retail Project (MRN)	13033	100	or Art nor major projects	DATE 10/13/2021 PAGE: 1 OF 7	
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₹	309 South Cloverdale Street Unit A13	erdale Stree	et Unit A13					PROJECT CONTAC	TACT		1773	
)	Seattle, WA 98108	108						Robert	Robert Thompson	Robert Thompson	1.discoon	****
F	TEL 206-510-5855	1855	FAX: N/A	roben	robert.thompson@cardno.com	@cardno	.com	Considine	au Tie	vou, cameron renner-Asn, John	emp:=	Ö
≓ U	TURNAROUND TIME  SAME DAY  2	□24 HR		☐ 5 DAYS	☑ 10 DAYS	S				REQUESTI	REQUESTED ANALYSIS	
ı П	SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWQCB REPORTING	(ADDITIONAL COST	S MAY APPLY)  S AAY APPLY)	Tt //								
Š	PECIAL INSTRUCTIONS:											
All F	Required EIM and Cardno Include % Moisture in rep All units in mg/kg.	b EDDs. Perform bort for dry weigh	Required ElM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not Include % Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thom; All units in mg/kg.	. Group results by cole@cardno.com,	sample, not b robert.thomps	by analysis method pson@cardno.com	ethod. com	GSM) D 28 H9T J 28 H9T -				
ē		rdno.com, robert.	to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner.ash@cardno.	cameron.penner-a:	th@cardno.com	ŀ	NO OF COMT	×9-			570-72859 Chain of Custody	
3 × 8	148 SAMPLE ID	LE 10	Field Point Name	DATE	TIME	MAT-			O 3010M		CONTAINER TYPE	
Ľ	1-15-ISA		5-15- ISA	10/ <b>r</b> /2021	8=	S	4	╁		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	***************************************
ام P	2-2.5-Hb		5-2.5- Hb	_	SIII	S	4	+	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	
an an	2-5-HC		5-5- HG		1120	S	4	×	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	
<u>* </u>	5-7.5-Hb		5-3.5-H6	-	1125	S	4	-	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	
<u>4</u> 7	3H-01-5		5-10-HG	-	1130	S	4	+	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	
of Of	1-12.5- Hb		3-12.5-HL	10/13/2021	1135	S	4	-	×,	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	
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)	3-10-17		\$-10-IF		SI	S	4	+-	(×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	
L	FI-3.51-5 0	-	5-12.5-27	10/13/2021	155	S	4	×	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	
1	1 5-15-27		S-15-I7	10/ <b>73</b> /2021	1200	S	4	$\vdash$	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	loz un-preserved glass jar	
1	- cl		J-2,5-IS	10/13/2021	1205	S	4	$\dashv$	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	loz un-preserved glass jar	
15	13-5-15 G		27-2-2	10/13 /2021	1210	S	4	-	× >	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	loz un-preserved glass jar	
Ľ	で で で ひ で ひ グ		1-7.5-13	10/13/2021	200	00	4 4	< >	<b>+</b>	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one-4oz un-preserved glass Jar	toz un-preserved glass jar	
1=	1-12.5-I	2	5-12.5-15	10//3/2021	522	S	. 4	+-	(×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 40z un-preserved class jar	oz un-preserveu glass jar Oz un-preserved glass iar	
<u>ا ئا</u>	5-12.5-15	4n4	5-12.5-15 DUP	10//3/2021	1230	S	4	-	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	loz un-preserved glass jar	
	B 5-5-44		18-5-44	10/13/2021	2181	S	4	×	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	
	16 5-2.5-HY		5-7.5-44		1320	S	4	Н	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	
1	W 5-2.5- I	3	5-2.5-13	10/13/2021	1325	S	4	×	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	toz un-preserved glass jar	
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	Calscience		1841-1432		Provie	e MRN for ren	ide MRN or retail or AFE for major projects	aposinione interestation in the contract of th	DATE: 10/13/2021	
		TEL. (714) 895-5494 FAX: (714) 894-7501	X: (714) 894-7501		Retail	Retail Project (MRN)			PAGE 2 OF 2	
					Major	Project (AFE)	REGERENATION OF THE PROPERTY OF	18181818181818181818181818181818181818		
ExxonMobil Engr		Jennifer Sedlachek			Projec	Project Name		ExxonMobil ADC / 0314476040		
LABORATORY CLIENT							GLOBAL ID #/COELTTOO GOODE	3000		200
Cardno									P O 0314476040 Agreement# A2604415	CHILDREN CO.
309 South Cloverdale Street Unit A13	rdale Stre	et Unit A13					PROJECT CONTACT:		1.ABUSE ONLY	mary and
Seattle, WA 98108	80						Robert Thompson	Robert Thompson	+ 2000	-
TEL 206-510-5855	155	FAX: N/A	roben	robert.thompson@cardno.com	n@can	dno.com	SAMPLER(S): FAUI FIE Considine	vou, cameron renner-Asn, Jonn	O ₀ . ≠diva.	THE CONTRACTOR
TURNAROUND TIME SAME DAY 24 HR	壬	□48 HR □72 HR	□ 5 DAYS	☑ 10 DAYS	ΑΥS			REQUES	REQUESTED ANALYSIS	and the same of
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SPECIAL INSTRUCTIONS:		TOWA ITAL SAFIFEES ON	The control of the				********	-		DESCRIPTION -
Required EIM and Cardno E	EDDs. Perform	Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method.	s. Group results by	sample, not	by analys	is method.	.,			(SECONDARY)
Include % Moisture in repor All units in mg/kg.	rt for dry weigi	it correction. Report to: laina.	.cole@cardno.com,	robert.thom	pson@car	dno.com	HqT -			***
Report to: Nama.coregocard	по.сот, гореп	Neport to: wina.core@cardno.com, robert.tnompsongcardno.com, and cameron.penner-ashgcardno.com	cameron.penner-ash@	Sh@cardno.t	mo:	NO. OF CONT	۷Ð-⊦			
148 SAMPLE ID	Q D	Field Point Name	DATE	TIME	MAT-		mohe ^c 19TW <i>V</i> 19TW <i>V</i> 19TW <i>V</i>		CONTAINER TYPE	
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23 5-7,5-13		5-7.5- I3	10/13/2021		S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	meno-
24 5-10-X3		S-10-E3	10/13/2021	1340	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	ngame-
		5-2.5-42		1345	S	4	XX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	yeaner-
DV 5-5-HZ		5-5-Hz	-	1350	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	a 4oz un-preserved glass jar	pinon
1.		J-7.5-HZ		1355	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	e 4oz un-preserved glass jar	MINISTER OF
J40 5-10-42		5-10-42	10/73/2021	1400	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	a 4oz un-preserved glass jar	en comme
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570-72859 Waybill

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Fed Ex (17292) 8135 3321 7292

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SEDJ3/14BA/FE48

Date: 10/3/21

Signature: -

11/18/2021 (Rev. 1)

Client: Cardno, Inc Job Number: 570-72859-1

Login Number: 72859 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

oroator: rtamos, mandor		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <a href="mailto:smm">&lt;6mm</a> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-72864-1

Client Project/Site: ExoonMobil ADC/0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Soma

Authorized for release by: 10/28/2021 12:01:01 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS

Review your project results through

Total Access

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Cardno, Inc Project/Site: ExoonMobil ADC/0314476040 Laboratory Job ID: 570-72864-1

# **Table of Contents**

Cover Page	1
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Detection Summary	6
Client Sample Results	11
Surrogate Summary	22
QC Sample Results	25
QC Association Summary	35
Lab Chronicle	40
Certification Summary	49
Method Summary	50
Chain of Custody	51
Receipt Checklists	57

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# **Sample Summary**

Job ID: 570-72864-1 Client: Cardno, Inc

Project/Site: ExoonMobil ADC/0314476040

570-72864-33

Trip Blank

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-72864-1	S-2.5-F1	Solid	10/13/21 07:25	10/14/21 10:00
570-72864-2	S-5-F1	Solid	10/13/21 07:30	10/14/21 10:00
570-72864-3	S-7.5-F1	Solid	10/13/21 07:35	10/14/21 10:00
570-72864-4	S-2.5-G1	Solid	10/13/21 08:10	10/14/21 10:00
570-72864-5	S-5-G1	Solid	10/13/21 08:15	10/14/21 10:00
570-72864-6	S-7.5-G1	Solid	10/13/21 08:20	10/14/21 10:00
570-72864-7	S-10-G1	Solid	10/13/21 08:25	10/14/21 10:00
570-72864-8	S-2.5-F2	Solid	10/13/21 08:30	10/14/21 10:00
570-72864-9	S-5-F2	Solid	10/13/21 08:35	10/14/21 10:00
570-72864-10	S-2.5-G3	Solid	10/13/21 08:40	10/14/21 10:00
570-72864-11	S-5-G3	Solid	10/13/21 08:45	10/14/21 10:00
570-72864-12	S-7.5-G3	Solid	10/13/21 08:50	10/14/21 10:00
570-72864-13	S-2.5-F4	Solid	10/13/21 09:00	10/14/21 10:00
570-72864-14	S-5-F4	Solid	10/13/21 09:05	10/14/21 10:00
570-72864-15	S-7.5-F4	Solid	10/13/21 09:15	10/14/21 10:00
570-72864-16	S-10-F4	Solid	10/13/21 09:20	10/14/21 10:00
570-72864-17	S-12.5-F4	Solid	10/13/21 09:25	10/14/21 10:00
570-72864-18	S-5-G5	Solid	10/13/21 09:30	10/14/21 10:00
570-72864-19	S-7.5-G5	Solid	10/13/21 09:35	10/14/21 10:00
570-72864-20	S-10-G5	Solid	10/13/21 09:40	10/14/21 10:00
570-72864-21	S-12.5-G5	Solid	10/13/21 09:45	10/14/21 10:00
570-72864-22	S-5-F6	Solid	10/13/21 09:55	10/14/21 10:00
570-72864-23	S-7.5-F6	Solid	10/13/21 10:00	10/14/21 10:00
570-72864-24	S-10-F6	Solid	10/13/21 10:05	10/14/21 10:00
570-72864-25	S-12.5-F6	Solid	10/13/21 10:10	10/14/21 10:00
570-72864-26	S-15-F6	Solid	10/13/21 10:15	10/14/21 10:00
570-72864-27	S-2.5-G7	Solid	10/13/21 10:30	10/14/21 10:00
570-72864-28	S-5-G7	Solid	10/13/21 10:35	10/14/21 10:00
570-72864-29	S-7.5-G7	Solid	10/13/21 10:40	10/14/21 10:00
570-72864-30	S-10-G7	Solid	10/13/21 10:45	10/14/21 10:00
570-72864-31	S-12.5-G7	Solid	10/13/21 10:50	10/14/21 10:00
570-72864-32	S-15-G7	Solid	10/13/21 10:55	10/14/21 10:00

Water

10/13/21 00:00 10/14/21 10:00

# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

### **Qualifiers**

### **GC Semi VOA**

Qualifier Qualifier Description

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

F2 MS/MSD RPD exceeds control limits

### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

DL Detection Limit (DOD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

**Eurofins Calscience LLC** 

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10

12

4 /

### Case Narrative

Client: Cardno, Inc

Project/Site: ExoonMobil ADC/0314476040

Job ID: 570-72864-1

Job ID: 570-72864-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-72864-1

### Comments

No additional comments.

### Receipt

The samples were received on 10/14/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

### Receipt Exceptions

The number of containers for the following samples did not match the information listed on the Chain-of-Custody (COC): S-15-G7 (570-72864-32). Received 1 container (4oz glass jar), while the COC lists 4. TerraCore samples were missing in the shipment and neither in the shipment the next day. Aliquot for NWTPH-Gx TPH as Gasoline analysis was taken from the soil jar. Please refer to the attached email.

#### **GC VOA**

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188790. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188860. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188902. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-189086. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-189371. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC Semi VOA

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-188727 and analytical batch 570-188826 was outside control limits. Sample matrix interference is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### **Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-2.5-	F1			Lab Sa	mple ID: 5	70-72864-1
Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range	120	30	mg/Kg	<u></u>	NWTPH-Dx	Silica Gel

# Client Sample ID: S-5-F1 Lab Sample ID: 570-72864-2

Analyte	Result Qualifier	RL	Unit		D Method	Prep Type
TPH as Gasoline (C4-C13)	0.19	0.19	mg/Kg	1 -	≎ NWTPH-Gx	Total/NA
TPH as Diesel Range	71	28	mg/Kg	5	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	130	28	mg/Kg	5	∵ NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-7.5-F1 Lab Sample ID: 570-72864-3

	Analyte	Result Qualifier	RL	Unit	Dil Fac [	Method	Prep Type
-	TPH as Gasoline (C4-C13)	51	14	mg/Kg	50 🗄	NWTPH-Gx	Total/NA
L	TPH as Diesel Range	20	6.7	mg/Kg	1 ₃	NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-2.5-G1 Lab Sample ID: 570-72864-4

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Diesel Range	100	55	mg/Kg	10 🌣	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	330	55	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-5-G1 Lab Sample ID: 570-72864-5

Analyte TPH as Diesel Range	Result Qualifier 6.8	5.6	Unit mg/Kg		<u></u>	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	13	5.6	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-7.5-G1 Lab Sample ID: 570-72864-6

Analyte TPH as Gasoline (C4-C13) TPH as Diesel Range TPH as Motor Oil Range	Result         Qualifier           610         7800           3700         3700	<b>RL</b> 58 140 140	mg/Kg mg/Kg mg/Kg	10	<del>*</del>	Method NWTPH-Gx NWTPH-Dx NWTPH-Dx	Prep Type  Total/NA  Silica Gel Cleanup Silica Gel Cleanup
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# Client Sample ID: S-10-G1 Lab Sample ID: 570-72864-7

No Detections.

# Client Sample ID: S-2.5-F2 Lab Sample ID: 570-72864-8

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)		12	mg/Kg	50	<del>-</del>	NWTPH-Gx	Total/NA
TPH as Diesel Range	1900	6.0	mg/Kg	1	₩	NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	280	6.0	mg/Kg	1	₩	NWTPH-Dx	Silica Gel
							Cleanup

This Detection Summary does not include radiochemical test results.

10/28/2021

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-5-F2		Lab Sample ID: 570-72	864-9

Analyte	Result Qualifie	r RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	180	120	mg/Kg	500	<del>_</del>	NWTPH-Gx	Total/NA
TPH as Diesel Range	7200	55	mg/Kg	10	₽	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2600	55	mg/Kg	10	₩	NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-2.5-G3

Analyte TPH as Gasoline (C4-C13)	Result Qualifier	RL	Unit mg/Kg		Method  NWTPH-Gx	Prep Type Total/NA
TPH as Diesel Range	5600	59	mg/Kg	10	᠅ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1600	59	mg/Kg	10	☼ NWTPH-Dx	Silica Gel Cleanup

### Client Sample ID: S-5-G3

Analyte TPH as Gasoline (C4-C13) TPH as Diesel Range TPH as Motor Oil Range	 Qualifier         RL           0.22         59           59         59	mg/Kg mg/Kg mg/Kg	1 10	—	Method NWTPH-Gx NWTPH-Dx	Prep Type Total/NA Silica Gel Cleanup Silica Gel
						Cleanup

# Client Sample ID: S-7.5-G3

No Detections.

### Client Sample ID: S-2.5-F4

Client Sample ID: S-2.5-F4 Lab Sample ID: 570-7						
Analyte	Result Qualifier	RL	Unit	Dil Fac I	) Method	Prep Type
TPH as Gasoline (C4-C13)	180	11	mg/Kg	50	NWTPH-Gx	Total/NA
TPH as Diesel Range	570	29	mg/Kg	5 ∃	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	200	29	mg/Kg	5 ∃	NWTPH-Dx	Silica Gel Cleanup

### Client Sample ID: S-5-F4

TPH as Diesel Range 11000 54 mg/Kg 5 № NWTPH-Dx Silica G Cleanu TPH as Motor Oil Range 800 54 mg/Kg 5 № NWTPH-Dx Silica G				0 0	500		Prep Type Total/NA Silica Gel Cleanup Silica Gel Cleanup
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### Client Sample ID: S-7.5-F4

Analyte TPH as Gasoline (C4-C13)	Result Qualifier 0.25	 Unit mg/Kg	1 Dil Fac D Method NWTPH-Gx	Prep Type Total/NA
Client Sample ID: S-10-E4			Lah Sample ID: 57	0_72864_16

No Detections.

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 570-72864-10

Lab Sample ID: 570-72864-11

Lab Sample ID: 570-72864-12

Lab Sample ID: 570-72864-14

Lab Sample ID: 570-72864-15

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-12.5-	F4				Lab Sar	mple ID: 57	0-72864-17
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	) Method	Prep Type
TPH as Motor Oil Range	55		40	mg/Kg		NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-G5					Lab Sar	mple ID: 57	0-72864-18
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	190		22	mg/Kg	100 🕏	NWTPH-Gx	Total/NA
TPH as Diesel Range	4400		99	mg/Kg	10 ≴	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1100		99	mg/Kg	10 ∹	NWTPH-Dx	Silica Gel Cleanup
- Client Sample ID: S-7.5-G	55				Lab Sar	mple ID: 57	0-72864-19
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	) Method	Prep Type
TPH as Gasoline (C4-C13)	110		20	mg/Kg	100		Total/NA
TPH as Diesel Range	1600		120	mg/Kg	20 ≎		Silica Gel Cleanup
TPH as Motor Oil Range	810		120	mg/Kg	20 ₺	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-G	5				Lab Sar	mple ID: 57	0-72864-20
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D	) Method	Prep Type
TPH as Gasoline (C4-C13)	280	<u> </u>	28	mg/Kg	100 🕏	NWTPH-Gx	Total/NA
TPH as Diesel Range - RA	210		18	mg/Kg	1 ∜	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - RA	150		18	mg/Kg	1 ⊀	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5-	G5				Lab Sar	mple ID: 57	0-72864-21
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D	) Method	Prep Type
TPH as Gasoline (C4-C13)	3.3		1.1	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	760		36	mg/Kg	1 ≴	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	480		36	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-F6					Lab Sar	mple ID: 57	0-72864-22
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D	) Method	Prep Type
TPH as Gasoline (C4-C13)	150		58	mg/Kg	200 🕏	NWTPH-Gx	Total/NA
TPH as Diesel Range	9600		43	mg/Kg	5 ∜	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2400		43	mg/Kg	5 ≎	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-F	6				Lab Sar	mple ID: 57	<u> </u>
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	) Method	Prep Type
TPH as Gasoline (C4-C13)	520		56	mg/Kg	200 🕏		Total/NA
TPH as Diesel Range - DL	22000		270	mg/Kg	25 ☆		Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

3100

TPH as Motor Oil Range - DL

25 🌣 NWTPH-Dx

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270

mg/Kg

Silica Gel Cleanup

10/28/2021

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-10-F	6				Lab Sample ID: 57	70-72864-2
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	560		99	mg/Kg	200 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	62000		950	mg/Kg	50 ☼ NWTPH-Dx	Silica Gel
-						Cleanup
TPH as Motor Oil Range - DL	6200		950	mg/Kg	50 ☼ NWTPH-Dx	Silica Gel
-						Cleanup
Client Sample ID: S-12.5	-F6				Lab Sample ID: 57	70-72864-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	92		66	mg/Kg	200 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	3200		66	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	760		66	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-15-F	6				Lab Sample ID: 57	<u> </u>
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	53		24	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-0	<b>3</b> 7				Lab Sample ID: 57	70-72864-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	6.9		0.24	mg/Kg	1   □ NWTPH-Gx	Total/NA
TPH as Diesel Range	6800		60	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	2500		60	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-G7	,				Lab Sample ID: 57	
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	95		9.1	mg/Kg	50 × NWTPH-Gx	Total/NA
TPH as Diesel Range	6500		46	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
go			.0	9/.19	5 W W W W	Cleanup
TPH as Motor Oil Range	2000		46	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
						Cleanup
lient Sample ID: S-7.5-0	<b>37</b>				Lab Sample ID: 57	70-72864-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	240		22	mg/Kg	100   □ NWTPH-Gx	Total/NA
TPH as Diesel Range	8200		37	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1800		37	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-10-G	<b>37</b>				Lab Sample ID: 57	70-72864-3
Analyte		Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	190		26	mg/Kg	100 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	4300		38	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
TDU M to OUE	1500		20	ma/Ka	5 ☆ NWTDU Dy	Cleanup
TDH as Motor Oil Dange	1500		.,0	malka	6 × NIMTD⊔ Dv	Cilian Cal

This Detection Summary does not include radiochemical test results.

1500

TPH as Motor Oil Range

5 ☼ NWTPH-Dx

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38

mg/Kg

Silica Gel Cleanup

# **Detection Summary**

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	9.5	0.57	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	85	41	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-15-G7 Lab Sample ID: 570-72864-32

Analyte TPH as Diesel Range TPH as Motor Oil Range	Result Qualifier 56	41 41	mg/Kg	1	₩	Method NWTPH-Dx NWTPH-Dx	Prep Type Silica Gel Cleanup Silica Gel Cleanup
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Client Sample ID: Trip Blank	Lab Sample ID: 570-72864-33

No Detections.

10

11

13

14

Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-2.5-F1

Lab Sample ID: 570-72864-1 Date Collected: 10/13/21 07:25 **Matrix: Solid** 

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleui	n Products (GC	<b>S</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.28	mg/Kg	<u></u>	10/21/21 12:59	10/23/21 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56		50 - 150			10/21/21 12:59	10/23/21 13:55	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		30	mg/Kg	<del>-</del>	10/22/21 17:41	10/23/21 16:22	5
TPH as Motor Oil Range	120		30	mg/Kg	₩	10/22/21 17:41	10/23/21 16:22	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		50 - 150			10/22/21 17:41	10/23/21 16:22	

Client Sample ID: S-5-F1 Lab Sample ID: 570-72864-2 **Matrix: Solid** 

Date Collected: 10/13/21 07:30

Date Received: 10/14/21 10:00

- Method: NWTPH-Gx - Nortl	nwest - Volatile	e Petroleur	n Products (GC	<b>;</b> )				
Analyte		Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.19		0.19	mg/Kg	<del>*</del>	10/21/21 12:59	10/23/21 14:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150			10/21/21 12:59	10/23/21 14:19	1

Method: NWTPH-Dx - Norti	hwest - Semi-Vo	olatile Pet	roleum Produ	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	71		28	mg/Kg	<u></u>	10/22/21 17:41	10/23/21 16:43	5
TPH as Motor Oil Range	130		28	mg/Kg	₩	10/22/21 17:41	10/23/21 16:43	5
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 10/22/21 17:41	Analyzed 10/23/21 16:43	Dil Fac

Client Sample ID: S-7.5-F1 Lab Sample ID: 570-72864-3 **Matrix: Solid** 

Date Collected: 10/13/21 07:35

Date Received: 10/14/21 10:00								
Method: NWTPH-Gx - Northwe	st - Volatile	Petroleun	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	51		14	mg/Kg	<del>*</del>	10/21/21 12:59	10/23/21 21:28	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150	10/21/21 12:59	10/23/21 21:28	50

Method: NWTPH-Dx - No	rthwest - Semi-Volatile	Petroleum Produc	ts (GC) - Silica	ı Gel (	Cleanup		
Analyte	Result Qualifi	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	20	6.7	mg/Kg	<del>*</del>	10/22/21 17:41	10/23/21 17:02	1
TPH as Motor Oil Range	ND	6.7	mg/Kg	☼	10/22/21 17:41	10/23/21 17:02	1
Surrogate	%Recovery Qualifi	ier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96	50 - 150			10/22/21 17:41	10/23/21 17:02	

**Matrix: Solid** 

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-2.5-G1

Lab Sample ID: 570-72864-4 Date Collected: 10/13/21 08:10

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - North	west - Volatile	Petroleui	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.22	mg/Kg	<del></del>	10/21/21 12:59	10/23/21 19:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150			10/21/21 12:59	10/23/21 19:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	100		55	mg/Kg	<u></u>	10/22/21 17:41	10/23/21 17:22	10
TPH as Motor Oil Range	330		55	mg/Kg	₽	10/22/21 17:41	10/23/21 17:22	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101		50 - 150			10/22/21 17:41	10/23/21 17:22	10

Client Sample ID: S-5-G1 Lab Sample ID: 570-72864-5 Date Collected: 10/13/21 08:15 **Matrix: Solid** 

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	m Products (GC	;)				
Analyte	Result	Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.19	mg/Kg	<del>*</del>	10/21/21 12:59	10/23/21 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150			10/21/21 12:59	10/23/21 15:29	1

Method: NWTPH-Dx - Nort	hwest - Semi-Vo		roleum Produ RL	ucts (GC) - Silica Unit	Gel (	Cleanup Prepared	Analyzed	Dil Fac
TPH as Diesel Range	<u>Result</u> 4	Qualifier	5.6	<del>                                 </del>	_ =		10/23/21 17:43	1
TPH as Motor Oil Range	13		5.6	mg/Kg		10/22/21 17:41		1
TPH as Motor Oil Range	13		5.0	mg/Kg	74	10/22/21 17.41	10/23/21 17.43	ļ
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			10/22/21 17:41	10/23/21 17:43	1

Lab Sample ID: 570-72864-6 Client Sample ID: S-7.5-G1 Date Collected: 10/13/21 08:20 **Matrix: Solid** 

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northwe	est - Volatile	Petroleur	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	610		58	mg/Kg	₽	10/21/21 12:59	10/24/21 04:10	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150			10/21/21 12:59	10/24/21 04:10	200

Method: NWTPH-Dx - Nor	thwest - Semi-Volatile	Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualific	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7800	140	mg/Kg	₩	10/22/21 17:41	10/23/21 18:04	10
TPH as Motor Oil Range	3700	140	mg/Kg	☼	10/22/21 17:41	10/23/21 18:04	10
Surrogate	%Recovery Qualifi	ier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99	50 - 150			10/22/21 17:41	10/23/21 18:04	10

Job ID: 570-72864-1

Client Sample ID: S-10-G1 Lab Sample ID: 570-72864-7 **Matrix: Solid** 

Date Collected: 10/13/21 08:25 Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleu	m Products (GC	<b>&gt;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.28	mg/Kg	<u></u>	10/21/21 12:59	10/23/21 15:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150			10/21/21 12:59	10/23/21 15:52	1

Analyte	Result Q	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND		11	mg/Kg	— <u></u>	10/22/21 17:41	10/23/21 18:23	1
TPH as Motor Oil Range	ND		11	mg/Kg	₩	10/22/21 17:41	10/23/21 18:23	1
Surrogate	%Recovery Q	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94		50 - 150			10/22/21 17:41	10/23/21 18:23	1

Client Sample ID: S-2.5-F2 Lab Sample ID: 570-72864-8 Date Collected: 10/13/21 08:30 **Matrix: Solid** 

Date Received: 10/14/21 10:00

- Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleur	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	170		12	mg/Kg	<del>*</del>	10/21/21 12:59	10/23/21 22:39	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150			10/21/21 12:59	10/23/21 22:39	50

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1900		6.0	mg/Kg	☆	10/22/21 17:41	10/23/21 18:43	1
TPH as Motor Oil Range	280		6.0	mg/Kg	☼	10/22/21 17:41	10/23/21 18:43	1
Surrogate	%Recovery (	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150			10/22/21 17:41	10/23/21 18:43	1

Lab Sample ID: 570-72864-9 Client Sample ID: S-5-F2 **Matrix: Solid** 

Date Collected: 10/13/21 08:35

Date Received: 10/14/21 10:00		

Method: NWTPH-Gx - Northw	est - Volatile	e Petroleui	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	180		120	mg/Kg	≎	10/21/21 12:59	10/23/21 23:02	500
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	<b>Limits</b> 50 - 150			Prepared 10/21/21 12:59	Analyzed 10/23/21 23:02	Dil Fac 500

Method: NWTPH-Dx - Nort	:hwest - Semi-Volatile Po	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7200	55	mg/Kg	<del>-</del>	10/22/21 17:41	10/23/21 19:03	10
TPH as Motor Oil Range	2600	55	mg/Kg	☼	10/22/21 17:41	10/23/21 19:03	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110	50 - 150			10/22/21 17:41	10/23/21 19:03	10

**Client Sample ID: S-2.5-G3** 

Lab Sample ID: 570-72864-10

**Matrix: Solid** 

Job ID: 570-72864-1

Date Collected: 10/13/21 08:40 Date Received: 10/14/21 10:00

<b>Method: NWTPH-Gx - North</b>	nwest - Volatile	<b>Petroleur</b>	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	170		10	mg/Kg	<del>*</del>	10/21/21 12:59	10/26/21 20:58	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

4-Bromofluorobenzene (Surr)	59		50 - 150			10/21/21 12:59	10/26/21 20:58	50
- Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5600		59	mg/Kg	— <u></u>	10/22/21 17:41	10/23/21 19:24	10
TPH as Motor Oil Range	1600		59	mg/Kg	₩	10/22/21 17:41	10/23/21 19:24	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		50 - 150			10/22/21 17:41	10/23/21 19:24	10

**Client Sample ID: S-5-G3** Lab Sample ID: 570-72864-11 **Matrix: Solid** 

Date Collected: 10/13/21 08:45

Date Received: 10/14/21 10:00

- Method: NWTPH-Gx - Nortl	nwest - Volatile	e Petroleur	m Products (GC	<b>;</b> )				
Analyte		Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	7.5		0.22	mg/Kg	₩	10/21/21 12:59	10/24/21 02:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150			10/21/21 12:59	10/24/21 02:12	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2400		59	mg/Kg	— <u></u>	10/22/21 17:41	10/23/21 20:24	10
TPH as Motor Oil Range	680		59	mg/Kg	≎	10/22/21 17:41	10/23/21 20:24	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		50 - 150			10/22/21 17:41	10/23/21 20:24	10

Lab Sample ID: 570-72864-12 Client Sample ID: S-7.5-G3 **Matrix: Solid** 

Date Collected: 10/13/21 08:50

Date Received: 10/14/21 10:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.28	mg/Kg	<del>*</del>	10/21/21 12:59	10/24/21 02:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150			10/21/21 12:59	10/24/21 02:35	1

Method: NWTPH-Dx - Northwe	est - Semi-Volatile P	etroleum Product	is (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND	5.4	mg/Kg	₩	10/22/21 17:41	10/23/21 20:45	1
TPH as Motor Oil Range	ND	5.4	mg/Kg	₩	10/22/21 17:41	10/23/21 20:45	1
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits 50 - 150			<b>Prepared</b> 10/22/21 17:41	Analyzed 10/23/21 20:45	Dil Fac

Lab Sample ID: 570-72864-13

Matrix: Solid

Job ID: 570-72864-1

Client Sample ID: S-2.5-F4
Date Collected: 10/13/21 09:00
Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	180		11	mg/Kg	<del>*</del>	10/21/21 12:59	10/26/21 21:21	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61		50 - 150			10/21/21 12:59	10/26/21 21:21	50
_								

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	570		29	mg/Kg	<u></u>	10/22/21 17:41	10/23/21 21:04	5
TPH as Motor Oil Range	200		29	mg/Kg	₩	10/22/21 17:41	10/23/21 21:04	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		50 - 150			10/22/21 17:41	10/23/21 21:04	5

Lab Sample ID: 570-72864-14 Client Sample ID: S-5-F4 Date Collected: 10/13/21 09:05 **Matrix: Solid** 

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	560		120	mg/Kg	<del>*</del>	10/21/21 12:59	10/26/21 21:45	500	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	<del></del>		50 - 150			10/21/21 12:59	10/26/21 21:45	500	

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup										
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
TPH as Diesel Range	11000		54	mg/Kg	<u></u>	10/22/21 17:41	10/23/21 21:25	5		
TPH as Motor Oil Range	800		54	mg/Kg	₩	10/22/21 17:41	10/23/21 21:25	5		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	102		50 - 150			10/22/21 17:41	10/23/21 21:25	5		

Client Cample ID: C 7 E E4 Lab Sample ID: 570 72964 45

Lab Sample 10: 5/0-/2004-15
Matrix: Solid

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)								
Analyte	Result	Qualifier	RL	Unit	_ D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.25		0.22	mg/Kg	₩	10/21/21 12:59	10/25/21 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared 10/04/04/05	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150			10/21/21 12:59	10/25/21 19:11	7

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	ND		6.0	mg/Kg	<u></u>	10/22/21 17:41	10/23/21 21:45	1	
TPH as Motor Oil Range	ND		6.0	mg/Kg	☼	10/22/21 17:41	10/23/21 21:45	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	95		50 - 150			10/22/21 17:41	10/23/21 21:45	1	

Job ID: 570-72864-1

Client Sample ID: S-10-F4

Date Collected: 10/13/21 09:20

Lab Sample ID: 570-72864-16

Matrix: Solid

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - North	west - Volatile	Petroleur	n Products (	GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg	<del>-</del>	10/21/21 12:59	10/25/21 19:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		50 - 150			10/21/21 12:59	10/25/21 19:35	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.0	mg/Kg	<u></u>	10/22/21 17:41	10/23/21 22:05	1
TPH as Motor Oil Range	ND		6.0	mg/Kg	₩	10/22/21 17:41	10/23/21 22:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		50 - 150			10/22/21 17:41	10/23/21 22:05	1

Client Sample ID: S-12.5-F4

Date Collected: 10/13/21 09:25

Lab Sample ID: 570-72864-17

Matrix: Solid

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleui	m Products (GC	;)				
Analyte	Result	Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		1.7	mg/Kg	<del>*</del>	10/21/21 12:59	10/25/21 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150			10/21/21 12:59	10/25/21 19:58	1

Method: NWTPH-Dx - Nort	thwest - Semi-Vo	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		40	mg/Kg	₩	10/22/21 17:41	10/23/21 22:25	1
TPH as Motor Oil Range	55		40	mg/Kg	≎	10/22/21 17:41	10/23/21 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150			10/22/21 17:41	10/23/21 22:25	1

Client Sample ID: S-5-G5 Lab Sample ID: 570-72864-18

Date Collected: 10/13/21 09:30

<b>Date Received:</b>	10/14/21	10:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	190		22	mg/Kg	<del>*</del>	10/21/21 12:59	10/25/21 20:22	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150			10/21/21 12:59	10/25/21 20:22	100

Method: NWTPH-Dx - North	าwest - Semi-Volatile F	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4400	99	mg/Kg	₩	10/22/21 17:41	10/23/21 22:46	10
TPH as Motor Oil Range	1100	99	mg/Kg	₽	10/22/21 17:41	10/23/21 22:46	10
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits 50 - 150			<b>Prepared</b> 10/22/21 17:41	Analyzed 10/23/21 22:46	Dil Fac

**Matrix: Solid** 

Client Sample ID: S-7.5-G5

Date Collected: 10/13/21 09:35 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72864-19

**Matrix: Solid** 

Job ID: 570-72864-1

Method: NWTPH-Gx - Norti	hwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	110		20	mg/Kg	<del>-</del>	10/21/21 12:59	10/25/21 20:46	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150			10/21/21 12:59	10/25/21 20:46	100
_ _								

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1600		120	mg/Kg	<u></u>	10/22/21 17:41	10/23/21 23:06	20
TPH as Motor Oil Range	810		120	mg/Kg	₩	10/22/21 17:41	10/23/21 23:06	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		50 - 150			10/22/21 17:41	10/23/21 23:06	20

Client Sample ID: S-10-G5 Lab Sample ID: 570-72864-20 Date Collected: 10/13/21 09:40

Date Received: 10/14/21 10:00

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 280 10/21/21 12:59 10/26/21 01:03 mg/Kg 100 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 69 50 - 150 10/21/21 12:59 10/26/21 01:03 100

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	210		18	mg/Kg	☆	10/22/21 17:41	10/26/21 14:40	1
TPH as Motor Oil Range	150		18	mg/Kg	☼	10/22/21 17:41	10/26/21 14:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		50 - 150			10/22/21 17:41	10/26/21 14:40	1

Client Sample ID: S-12.5-G5 Lab Sample ID: 570-72864-21

Date Collected: 10/13/21 09:45 Date Received: 10/14/21 10:00

**Matrix: Solid** 

Method: NWTPH-Gx - Northwe	est - Volatile	Petroleui	m Products (GC)	1				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3.3		1.1	mg/Kg	<del>□</del>	10/21/21 12:59	10/25/21 22:18	1
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 83	Qualifier	Limits 50 - 150			<b>Prepared</b> 10/21/21 12:59	Analyzed 10/25/21 22:18	Dil Fac

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	760		36	mg/Kg	<del>-</del>	10/22/21 18:28	10/24/21 03:13	1
TPH as Motor Oil Range	480		36	mg/Kg	₩	10/22/21 18:28	10/24/21 03:13	1
Surrogate	%Recovery 0	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150			10/22/21 18:28	10/24/21 03:13	1

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-5-F6

Date Collected: 10/13/21 09:55 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72864-22

**Matrix: Solid** 

Job ID: 570-72864-1

Method: NWTPH-Gx	- Northwest -	Volatile Petroleum	Products (GC)

Analyte	Result Qu	ualifier	RL	Unit I	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	150		58	mg/Kg	ф:	10/21/21 12:59	10/24/21 04:33	200
Commo mode	0/8		l imaida			Duamanad	A a la a al	D:/ F

Surrogate Prepared Analyzed **%Recovery Qualifier** Limits Dil Fac 50 - 150 10/21/21 12:59 10/24/21 04:33 4-Bromofluorobenzene (Surr) 76 200

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	9600	43	mg/Kg	— <u></u>	10/22/21 18:28	10/24/21 03:34	5
TPH as Motor Oil Range	2400	43	mg/Kg	☼	10/22/21 18:28	10/24/21 03:34	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96	50 - 150			10/22/21 18:28	10/24/21 03:34	5

Client Sample ID: S-7.5-F6 Lab Sample ID: 570-72864-23

Date Collected: 10/13/21 10:00

Date Received: 10/14/21 10:00

Matrix: Solid

10/22/21 18:28 10/26/21 16:02

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	520		56	mg/Kg	<del></del>	10/21/21 12:59	10/24/21 04:57	200

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 59 50 - 150 10/21/21 12:59 10/24/21 04:57 200

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result Qu		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
TPH as Diesel Range TPH as Motor Oil Range	22000 3100	270 270	mg/Kg mg/Kg	₽		10/26/21 16:02 10/26/21 16:02	25 25
Surrogate	%Recovery Qu	ualifier Limits			Prepared	Analyzed	Dil Fac

Lab Sample ID: 570-72864-24 Client Sample ID: S-10-F6 **Matrix: Solid** 

50 - 150

Date Collected: 10/13/21 10:05 Date Received: 10/14/21 10:00

n-Octacosane (Surr)

124

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)
method: NVVII II-Ox - Northwest - Volatile I etroledili I Toddets (00)

Analyte	Result Qualifier	KL	Unit	ט	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	560	99	mg/Kg	₩	10/21/21 12:59	10/24/21 05:20	200
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

10/21/21 12:59 10/24/21 05:20 4-Bromofluorobenzene (Surr) 89 50 - 150 200

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	62000		950	mg/Kg	☼	10/22/21 18:28	10/26/21 16:23	50
TPH as Motor Oil Range	6200		950	mg/Kg	₩	10/22/21 18:28	10/26/21 16:23	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analvzed	Dil Fac
n-Octacosane (Surr)	132		50 - 150			10/22/21 18:28	10/26/21 16:23	50

Project/Site: ExoonMobil ADC/0314476040

Lab Sample ID: 570-72864-25 Client Sample ID: S-12.5-F6

Date Collected: 10/13/21 10:10 **Matrix: Solid** 

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	92		66	mg/Kg	<del>*</del>	10/21/21 12:59	10/24/21 05:44	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		50 - 150			10/21/21 12:59	10/24/21 05:44	200

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3200	66	mg/Kg	<u></u>	10/22/21 18:28	10/24/21 04:37	
TPH as Motor Oil Range	760	66	mg/Kg	₽	10/22/21 18:28	10/24/21 04:37	Ę
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fa
Surrogate n-Octacosane (Surr)		Limits 50 _ 150			Prepared 10/22/21 18:28		

Client Sample ID: S-15-F6 Lab Sample ID: 570-72864-26

Date Collected: 10/13/21 10:15 **Matrix: Solid** Date Received: 10/14/21 10:00

Method: NWTPH-Gx - North	west - Volatile	Petroleui	m Products (G	C)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	MD		0.73	mg/Kg	<del>*</del>	10/21/21 12:59	10/25/21 22:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150			10/21/21 12:59	10/25/21 22:41	1

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Result Qualifi		cts (GC) - Silica Unit	Gel (	Cleanup Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND Qualifi	24	mg/Kg	=	10/22/21 18:28		1
TPH as Motor Oil Range	53	24	mg/Kg		10/22/21 18:28		1
Surrogate n-Octacosane (Surr)	%Recovery Qualify	Limits 50 - 150			Prepared 10/22/21 18:28	Analyzed 10/24/21 04:57	Dil Fac

Lab Sample ID: 570-72864-27 Client Sample ID: S-2.5-G7 **Matrix: Solid** 

Date Collected: 10/13/21 10:30 Date Received: 10/14/21 10:00

Method: NWTPH-Gx - North	west - Volatile	e Petroleui	m Products (GC	3)				
Analyte TPH as Gasoline (C4-C13)	Result 6.9	Qualifier	RL 0.24	Unit mg/Kg	_ <del>D</del>	Prepared 10/21/21 12:59	Analyzed 10/25/21 23:05	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 10/21/21 12:59	Analyzed 10/25/21 23:05	Dil Fac

Method: NWTPH-Dx - North Analyte		olatile Pet Qualifier	roleum Product	ts (GC) - Silica Unit	_	Cleanup Prepared	Analyzed	Dil Fac
Analyte	Resuit	Qualifier	- KL	Offic	D	Frepareu	Analyzeu	DII Fac
TPH as Diesel Range	6800		60	mg/Kg	₩	10/22/21 18:28	10/24/21 05:18	5
TPH as Motor Oil Range	2500		60	mg/Kg	₩	10/22/21 18:28	10/24/21 05:18	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		50 - 150			10/22/21 18:28	10/24/21 05:18	5

Lab Sample ID: 570-72864-28 Client Sample ID: S-5-G7 **Matrix: Solid** 

Date Collected: 10/13/21 10:35 Date Received: 10/14/21 10:00

Method: NWTPH-Gx - No	orthwest - Volatile Petroleum	<b>Products (GC)</b>
Analyto	Pocult Qualifier	DI

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	95		9.1	mg/Kg	<u></u>	10/21/21 12:59	10/26/21 18:41	50
Suuma vata	0/ 🗖	O	Limita			Dunnanad	A a b a al	Dil 5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

50 - 150 4-Bromofluorobenzene (Surr) 60 10/21/21 12:59 10/26/21 18:41

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6500	46	mg/Kg	<u></u>	10/22/21 18:28	10/24/21 05:39	5
TPH as Motor Oil Range	2000	46	mg/Kg	₩	10/22/21 18:28	10/24/21 05:39	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109	50 - 150			10/22/21 18:28	10/24/21 05:39	5

Client Sample ID: S-7.5-G7 Lab Sample ID: 570-72864-29 **Matrix: Solid** 

Date Collected: 10/13/21 10:40

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

				Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13) 240	22	mg/Kg	<u></u>	10/21/21 12:59	10/26/21 19:05	100

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 71 50 - 150 10/21/21 12:59 10/26/21 19:05 100

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

			10 (0 - ) - 111 - 11				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	8200	37	mg/Kg	<u></u>	10/22/21 18:28	10/24/21 06:00	5
TPH as Motor Oil Range	1800	37	mg/Kg	☼	10/22/21 18:28	10/24/21 06:00	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106	50 - 150			10/22/21 18:28	10/24/21 06:00	5

Client Sample ID: S-10-G7 Lab Sample ID: 570-72864-30

Date Collected: 10/13/21 10:45

Date Received: 10/14/21 10:00

Method: NWTPH-Gx -	Northwest	- Volatile	Petroleum	Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result 190	Qualifier	RL 26	 Unit mg/Kg	- <del>D</del>	Prepared 10/21/21 12:59	Analyzed 10/26/21 20:34	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

10/21/21 12:59 10/26/21 20:34 4-Bromofluorobenzene (Surr) 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4300		38	mg/Kg	<del>*</del>	10/22/21 18:28	10/24/21 06:21	5
TPH as Motor Oil Range	1500		38	mg/Kg	₽	10/22/21 18:28	10/24/21 06:21	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 105 50 - 150 10/22/21 18:28 10/24/21 06:21

Client Sample ID: S-12.5-G7

Date Collected: 10/13/21 10:50 Date Received: 10/14/21 10:00 Lab Sample ID: 570-72864-31

. Matrix: Solid

Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleui	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	9.5		0.57	mg/Kg	<del>*</del>	10/21/21 12:59	10/26/21 00:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			10/21/21 12:59	10/26/21 00:39	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	85		41	mg/Kg	<u></u>	10/22/21 18:28	10/24/21 06:42	1
TPH as Motor Oil Range	ND		41	mg/Kg	₩	10/22/21 18:28	10/24/21 06:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94		50 - 150			10/22/21 18:28	10/24/21 06:42	1

Client Sample ID: S-15-G7

Date Collected: 10/13/21 10:55

Lab Sample ID: 570-72864-32

Matrix: Solid

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND mg/Kg 10/20/21 09:50 10/20/21 17:17 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 10/20/21 09:50 10/20/21 17:17 4-Bromofluorobenzene (Surr) 95 50 - 150

Method: NWTPH-Dx - Nort	thwest - Semi-Vo	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	56		41	mg/Kg	<u></u>	10/22/21 18:28	10/24/21 07:02	1
TPH as Motor Oil Range	120		41	mg/Kg	₩	10/22/21 18:28	10/24/21 07:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		50 - 150			10/22/21 18:28	10/24/21 07:02	1

Client Sample ID: Trip Blank

Date Collected: 10/13/21 00:00

Lab Sample ID: 570-72864-33

Matrix: Water

Date Received: 10/14/21 10:00

Method: NWTPH-Gx - North	west - Volatile	e Petroleur	n Products (GC	5)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ug/L			10/19/21 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150				10/19/21 23:30	1

# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Total/NA

-			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	, , , , , , , , , , , , , , , , , , ,
Lab Sample ID	Client Sample ID	(50-150)	
570-72864-1	S-2.5-F1	56	
570-72864-2	S-5-F1	74	
570-72864-3	S-7.5-F1	68	
570-72864-4	S-2.5-G1	91	
570-72864-5	S-5-G1	78	
570-72864-6	S-7.5-G1	57	
570-72864-7	S-10-G1	90	
570-72864-8	S-2.5-F2	60	
570-72864-9	S-5-F2	79	
570-72864-10	S-2.5-G3	59	
570-72864-11	S-5-G3	79	
570-72864-12	S-7.5-G3	86	
570-72864-13	S-2.5-F4	61	
570-72864-14	S-5-F4	77	
570-72864-15	S-7.5-F4	94	
570-72864-16	S-10-F4	103	
570-72864-17	S-12.5-F4	73	
570-72864-18	S-5-G5	66	
570-72864-19	S-7.5-G5	74	
570-72864-20	S-10-G5	69	
570-72864-21	S-12.5-G5	83	
570-72864-22	S-5-F6	76	
570-72864-23	S-7.5-F6	59	
570-72864-24	S-10-F6	89	
570-72864-25	S-12.5-F6	63	
570-72864-26	S-15-F6	92	
570-72864-27	S-2.5-G7	65	
570-72864-28	S-5-G7	60	
570-72864-29	S-7.5-G7	71	
570-72864-30	S-10-G7	67	
570-72864-31	S-12.5-G7	102	
570-72864-32	S-15-G7	95	
570-73185-B-4-B MS	Matrix Spike	136	
570-73185-B-4-C MSD	Matrix Spike Duplicate	133	
LCS 570-187828/1-A	Lab Control Sample	127	
LCS 570-188790/3	Lab Control Sample	96	
LCS 570-188860/3	Lab Control Sample	86	
LCS 570-188902/30	Lab Control Sample	106	
LCS 570-189086/3	Lab Control Sample	94	
LCS 570-189371/3	Lab Control Sample	112	
LCSD 570-187828/2-A	Lab Control Sample Dup	128	
LCSD 570-188790/4	Lab Control Sample Dup	98	
LCSD 570-188860/4	Lab Control Sample Dup	108	
LCSD 570-188902/31	Lab Control Sample Dup	106	
LCSD 570-189086/4	Lab Control Sample Dup	105	
LCSD 570-189371/4	Lab Control Sample Dup	105	
MB 570-187828/3-A	Method Blank	116	
MB 570-188790/5	Method Blank	79	
MB 570-188860/5	Method Blank	83	

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Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
MB 570-188860/6	Method Blank	69	
MB 570-188902/32	Method Blank	87	
MB 570-188902/33	Method Blank	68	
MB 570-189086/5	Method Blank	86	
MB 570-189086/6	Method Blank	73	
MB 570-189371/6	Method Blank	79	
Surrogate Legend			
BFB = 4-Bromofluoro	benzene (Surr)		

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Water** Prep Type: Total/NA

		BFB1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(50-150)	
570-72864-33	Trip Blank	57	
570-72969-D-3 MS	Matrix Spike	89	
570-72969-D-3 MSD	Matrix Spike Duplicate	91	
LCS 570-187662/3	Lab Control Sample	91	
LCSD 570-187662/4	Lab Control Sample Dup	87	
MB 570-187662/5	Method Blank	56	
Surrogate Legend			

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
ab Sample ID	Client Sample ID	(50-150)	
570-72864-1	S-2.5-F1	92	
570-72864-1 MS	S-2.5-F1	92	
570-72864-1 MS	S-2.5-F1	91	
70-72864-1 MSD	S-2.5-F1	100	
70-72864-1 MSD	S-2.5-F1	92	
570-72864-2	S-5-F1	101	
570-72864-3	S-7.5-F1	96	
570-72864-4	S-2.5-G1	101	
570-72864-5	S-5-G1	97	
570-72864-6	S-7.5-G1	99	
570-72864-7	S-10-G1	94	
570-72864-8	S-2.5-F2	109	
70-72864-9	S-5-F2	110	
570-72864-10	S-2.5-G3	102	
570-72864-11	S-5-G3	100	
570-72864-12	S-7.5-G3	97	
70-72864-13	S-2.5-F4	102	
70-72864-14	S-5-F4	102	
570-72864-15	S-7.5-F4	95	
570-72864-16	S-10-F4	95	

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## **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Prep Type: Silica Gel Cleanup **Matrix: Solid** 

		070011	Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-72864-17	S-12.5-F4	103	
570-72864-18	S-5-G5	102	
570-72864-19	S-7.5-G5	95	
570-72864-20 - RA	S-10-G5	112	
570-72864-21	S-12.5-G5	103	
570-72864-22	S-5-F6	96	
570-72864-23 - DL	S-7.5-F6	124	
570-72864-24 - DL	S-10-F6	132	
570-72864-25	S-12.5-F6	103	
570-72864-26	S-15-F6	100	
570-72864-27	S-2.5-G7	106	
570-72864-27 MS	S-2.5-G7	101	
570-72864-27 MS	S-2.5-G7	102	
570-72864-27 MSD	S-2.5-G7	111	
570-72864-27 MSD	S-2.5-G7	100	
570-72864-28	S-5-G7	109	
570-72864-29	S-7.5-G7	106	
570-72864-30	S-10-G7	105	
570-72864-31	S-12.5-G7	94	
570-72864-32	S-15-G7	102	
LCS 570-188710/2-A	Lab Control Sample	93	
LCS 570-188710/6-A	Lab Control Sample	94	
LCS 570-188727/2-A	Lab Control Sample	94	
LCS 570-188727/6-A	Lab Control Sample	91	
LCSD 570-188710/3-A	Lab Control Sample Dup	91	
LCSD 570-188710/7-A	Lab Control Sample Dup	91	
LCSD 570-188727/3-A	Lab Control Sample Dup	97	
LCSD 570-188727/7-A	Lab Control Sample Dup	95	
MB 570-188710/1-A	Method Blank	94	
MB 570-188727/1-A	Method Blank	94	
Surrogate Legend			
OTCSN = n-Octacosar	- (0)		

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%Rec.

Project/Site: ExoonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-187662/5 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

Client: Cardno, Inc

**Analysis Batch: 187662** 

MB MB Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared TPH as Gasoline (C4-C13) ND 100 ug/L 10/19/21 18:52

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 56 50 - 150 10/19/21 18:52

Lab Sample ID: LCS 570-187662/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

LCS LCS Spike

Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2130 2099 ug/L 99 76 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-187662/4 Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2130 2111 ug/L 76 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 87 50 - 150

Lab Sample ID: 570-72969-D-3 MS Client Sample ID: Matrix Spike

**Matrix: Water** 

**Analysis Batch: 187662** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Limits Analyte Result Qualifier Unit %Rec TPH as Gasoline (C4-C13) ND 2130 2070 ug/L 97 69 - 132

MS MS %Recovery Qualifier Surrogate Limits

4-Bromofluorobenzene (Surr) 50 - 150 89

Lab Sample ID: 570-72969-D-3 MSD

**Matrix: Water** 

**Analysis Batch: 187662** 

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 2130 TPH as Gasoline (C4-C13) ND 2120 ug/L 100 69 - 132

MSD MSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 91

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Prep Type: Total/NA

**Prep Type: Total/NA** 

Client Sample ID: Matrix Spike Duplicate

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-187828/3-A

**Matrix: Solid** 

**Analysis Batch: 187780** 

Client Sample ID: Method Blank Prep Type: Total/NA

**Prep Batch: 187828** 

Prep Type: Total/NA

Prep Type: Total/NA

Result Qualifier RL Unit Analyzed Dil Fac Analyte Prepared TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 10/20/21 09:50 10/20/21 12:06

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 10/20/21 09:50 4-Bromofluorobenzene (Surr) 116 50 - 150 10/20/21 12:06

Lab Sample ID: LCS 570-187828/1-A Client Sample ID: Lab Control Sample

**Matrix: Solid** 

**Analysis Batch: 187780** 

Prep Batch: 187828 LCS LCS %Rec. Spike Added Result Qualifier Unit %Rec Limits

Analyte TPH as Gasoline (C4-C13) 2.13 2.247 mg/Kg 105 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-187828/2-A

**Matrix: Solid** 

**Analysis Batch: 187780** Prep Batch: 187828 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit

TPH as Gasoline (C4-C13) mg/Kg 2.12 2.176 102 77 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 128 50 - 150

Lab Sample ID: 570-73185-B-4-B MS Client Sample ID: Matrix Spike **Prep Type: Total/NA** 

**Matrix: Solid** 

**Analysis Batch: 187780** 

Prep Batch: 187828 Sample Sample Spike MS MS %Rec. Added Result Qualifier Limits Analyte Result Qualifier Unit %Rec

TPH as Gasoline (C4-C13) ND 2.12 1.865 88 48 - 114 mg/Kg

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150 136

Lab Sample ID: 570-73185-B-4-C MSD

**Matrix: Solid** 

**Analysis Batch: 187780** Prep Batch: 187828 Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Unit Limits RPD Limit Analyte %Rec 2.12 TPH as Gasoline (C4-C13) ND 1.581 mg/Kg 75 48 - 114 16 23

MSD MSD

MS MS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 133

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Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

10/23/21 12:17

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Prep Type: Total/NA

Project/Site: ExoonMobil ADC/0314476040

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-188790/5 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Analyte

Client: Cardno, Inc

Analysis Batch: 188790

TPH as Gasoline (C4-C13)

MB MB Analyzed Result Qualifier RL Unit Dil Fac D Prepared

mg/Kg

ND MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 79 50 - 150 10/23/21 12:17

0.25

Lab Sample ID: LCS 570-188790/3 Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 188790

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits

TPH as Gasoline (C4-C13) 2.13 1.768 mg/Kg 83 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 96

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-188790/4 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 188790** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.13 1.807 mg/Kg 85 77 - 128

LCSD LCSD

%Recovery Qualifier Surrogate Limits

4-Bromofluorobenzene (Surr) 98 50 - 150

Lab Sample ID: MB 570-188860/5

**Matrix: Solid** 

**Analysis Batch: 188860** 

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.25 10/23/21 13:54 mg/Kg

MB MB Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 10/23/21 13:54 83

Lab Sample ID: MB 570-188860/6 Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 188860** 

MB MB Result Qualifier RL D Analyte Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 10/23/21 14:17 20

MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 69 50 - 150 10/23/21 14:17 4-Bromofluorobenzene (Surr) 20

Client: Cardno, Inc

Job ID: 570-72864-1 Project/Site: ExoonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-188860/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 188860** 

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.12 1.932 mg/Kg 91 77 - 128

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-188860/4 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 188860

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.12 1.856 mg/Kg 87 77 - 128 4

LCSD LCSD

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 108

Client Sample ID: Method Blank Lab Sample ID: MB 570-188902/32 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 188902** 

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 0.25 10/24/21 01:01  $\overline{\mathsf{ND}}$ mg/Kg

MB MB

Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 87 50 - 150 10/24/21 01:01

Lab Sample ID: MB 570-188902/33

**Matrix: Solid** 

**Analysis Batch: 188902** 

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 5.0 mg/Kg 10/24/21 01:24

MB MB Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 10/24/21 01:24 68

Lab Sample ID: LCS 570-188902/30

**Matrix: Solid** 

**Analysis Batch: 188902** 

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits Analyte 2.13 77 - 128 TPH as Gasoline (C4-C13) 1.813 mg/Kg 85

LCS LCS

Surrogate %Recovery Qualifier Limits 106 50 - 150 4-Bromofluorobenzene (Surr)

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**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

**Prep Type: Total/NA** 

Prep Type: Total/NA

Project/Site: ExoonMobil ADC/0314476040

Lab Sample ID: LCSD 570-188902/31

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

**Prep Type: Total/NA** 

Prep Type: Total/NA

**Matrix: Solid** 

Client: Cardno, Inc

Analysis Batch: 188902

RPD Spike LCSD LCSD %Rec. Result Qualifier Added Unit %Rec Limits RPD Limit Analyte TPH as Gasoline (C4-C13) 2.13 1.867 mg/Kg 88 77 - 128 3 16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 106 50 - 150

**Client Sample ID: Method Blank** Lab Sample ID: MB 570-189086/5 Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 189086

MB MB Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 10/25/21 14:43

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 86 50 - 150 10/25/21 14:43

Client Sample ID: Method Blank Lab Sample ID: MB 570-189086/6 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 189086** 

MB MB Analyte Qualifier RL Unit Prepared Analyzed Dil Fac Result

TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 5.0 mg/Kg 10/25/21 15:07

MB MB

%Recovery Qualifier Analyzed Dil Fac Surrogate Limits Prepared 4-Bromofluorobenzene (Surr) 73 50 - 150 10/25/21 15:07 20

Lab Sample ID: LCS 570-189086/3

**Matrix: Solid** 

**Analysis Batch: 189086** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit %Rec TPH as Gasoline (C4-C13) 2.13 1.854 87 77 - 128 mg/Kg

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: LCSD 570-189086/4

**Matrix: Solid** 

**Analysis Batch: 189086** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte 2.13 TPH as Gasoline (C4-C13) 1.951 mg/Kg 92 77 - 128

LCSD LCSD

Surrogate %Recovery Qualifier Limits 105 50 - 150 4-Bromofluorobenzene (Surr)

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-189371/6

**Matrix: Solid** 

Analysis Batch: 189371

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 10/26/21 14:36 20

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 10/26/21 14:36

Lab Sample ID: LCS 570-189371/3 Client Sample ID: Lab Control Sample Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 189371

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits

TPH as Gasoline (C4-C13) 2.13 2.003 mg/Kg 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-189371/4

**Matrix: Solid** 

**Analysis Batch: 189371** 

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.13 2.001 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Surrogate Limits

4-Bromofluorobenzene (Surr) 105 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-188710/1-A

**Matrix: Solid** 

**Analysis Batch: 188826** 

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup **Prep Batch: 188710** 

Prep Type: Total/NA

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac TPH as Diesel Range ND 5.0 mg/Kg 10/22/21 17:41 10/23/21 13:01 TPH as Motor Oil Range ND 5.0 mg/Kg 10/22/21 17:41 10/23/21 13:01

MB MB

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 94 50 - 150 10/22/21 17:41 10/23/21 13:01

Lab Sample ID: LCS 570-188710/2-A

**Matrix: Solid** 

**Analysis Batch: 188826** 

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup **Prep Batch: 188710** 

Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 76 - 126 392.0 mg/Kg 98

LCS LCS

Limits %Recovery Qualifier Surrogate n-Octacosane (Surr) 50 - 150 93

Project/Site: ExoonMobil ADC/0314476040

Client: Cardno, Inc

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-188710/6-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Silica Gel Cleanup Analysis Batch: 188826 **Prep Batch: 188710** Spike LCS LCS %Rec. Result Qualifier Added Limits Analyte Unit %Rec TPH as Motor Oil (C17-C44) 400 408.3 mg/Kg 102 71 - 139 LCS LCS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-188710/3-A **Matrix: Solid** Prep Type: Silica Gel Cleanup Analysis Batch: 188826 **Prep Batch: 188710** LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 400 381.6 mg/Kg 95 76 - 126 3 LCSD LCSD Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-188710/7-A **Matrix: Solid Prep Type: Silica Gel Cleanup Analysis Batch: 188826 Prep Batch: 188710** Spike LCSD LCSD %Rec RPD %Rec Analyte Added Result Qualifier Unit Limits RPD Limit TPH as Motor Oil (C17-C44) 400 377.0 71 - 139 mg/Kg LCSD LCSD

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 91 50 - 150

Lab Sample ID: 570-72864-1 MS Client Sample ID: S-2.5-F1 **Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 188826 Prep Batch: 188710** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec TPH as Diesel (C10-C28) 56 485 538.7 100 37 - 175 mg/Kg

MS MS %Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 92

Lab Sample ID: 570-72864-1 MS Client Sample ID: S-2.5-F1 **Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 188826 Prep Batch: 188710** 

Sample Sample Spike MS MS %Rec. Result Qualifier babb∆ Result Qualifier Unit Limits Analyte D %Rec TPH as Motor Oil (C17-C44) 71 - 174 150 498 685.6 mg/Kg 107

MS MS %Recovery Surrogate Qualifier Limits 50 - 150 n-Octacosane (Surr) 91

Project/Site: ExoonMobil ADC/0314476040

Client: Cardno, Inc

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-72864-1 MSD Client Sample ID: S-2.5-F1 **Matrix: Solid** Prep Type: Silica Gel Cleanup

Analysis Batch: 188826 **Prep Batch: 188710** 

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Result Qualifier Added Unit Limits RPD Limit Analyte D %Rec TPH as Diesel (C10-C28) 56 470 591.8 mg/Kg 114 37 - 175 9 20

MSD MSD Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 100 50 - 150

Client Sample ID: S-2.5-F1 Lab Sample ID: 570-72864-1 MSD

**Matrix: Solid** Prep Type: Silica Gel Cleanup

Analysis Batch: 188826 **Prep Batch: 188710** %Rec. RPD Sample Sample Spike MSD MSD

Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) 150 479 708.0 mg/Kg 116 71 - 174 3

MSD MSD %Recovery Surrogate Qualifier Limits 50 - 150 n-Octacosane (Surr) 92

**Client Sample ID: Method Blank** Lab Sample ID: MB 570-188727/1-A **Matrix: Solid** Prep Type: Silica Gel Cleanup

**Analysis Batch: 188826** Prep Batch: 188727

MB MB

Qualifier Analyte Result RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 5.0 mg/Kg 10/22/21 18:28 10/23/21 13:21 TPH as Motor Oil Range ND 5.0 mg/Kg 10/22/21 18:28 10/23/21 13:21

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 94 50 - 150 10/22/21 18:28 10/23/21 13:21

Lab Sample ID: LCS 570-188727/2-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 188826

Prep Batch: 188727 LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits 400 364.4 76 - 126 TPH as Diesel (C10-C28) mg/Kg 91

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150

Lab Sample ID: LCS 570-188727/6-A

**Analysis Batch: 188826** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 400 364.7 mg/Kg 91 71 - 139

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 91 50 - 150

**Eurofins Calscience LLC** 

Client Sample ID: Lab Control Sample

**Client Sample ID: Lab Control Sample** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 188727** 

Prep Type: Silica Gel Cleanup

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Lab Sample ID: 570-72864-27 MS

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n-Octacosane (Surr)

n-Octacosane (Surr)

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

50 - 150

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 188826	)-188727/3-A				(	Client Sa	•		Control be: Silica Prep Ba	Gel Cle	anup
_			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)			400	366.5		mg/Kg		92	76 - 126	1	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 188826	)-188727/7-A				(	Client Sai	•		Control be: Silica Prep Ba	Gel Cle	anup
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)			400	363.2		mg/Kg		91	71 - 139	0	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	95		50 - 150								

Lab Sample ID: 570-72864	1-27 MS							Clien	t Sample	ID: S-2.5-G7
Matrix: Solid							P	rep Typ	oe: Silica (	Gel Cleanup
Analysis Batch: 188826									Prep Ba	tch: 188727
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	7700		943	7769	4	mg/Kg	☼	6	37 - 175	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	101		50 - 150							

Matrix: Solid Analysis Batch: 188826							P	гер Тур		Gel Cleanup tch: 188727
•	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	6000	F2	864	4935	4	mg/Kg	— <u>—</u>	-122	71 - 174	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

50 - 150

Lab Sample ID: 570-72864 Matrix: Solid Analysis Batch: 188826	4-27 MSD						P		t Sample be: Silica Prep Ba	Gel Cle	anup
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	7700		853	8455	4	mg/Kg	<del>*</del>	88	37 - 175	8	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	111		50 - 150								

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Client Sample ID: S-2.5-G7

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## **QC Sample Results**

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Lab Sample ID: 570-72864-27 MSD

**Matrix: Solid** 

Analyte

**Analysis Batch: 188826** 

TPH as Motor Oil (C17-C44)

Client Sample ID: S-2.5-G7 Prep Type: Silica Gel Cleanup

		Prep Ba	88727		
		%Rec.		RPD	
D	%Rec	Limits	RPD	Limit	

Result Qualifier Added Result Qualifier Unit ₩ 20 6000 F2 833 6397 4 F2 mg/Kg 49 71 - 174 26

MSD MSD

MSD MSD

Sample Sample

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 100 50 - 150

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

## **GC VOA**

### Analysis Batch: 187662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-33	Trip Blank	Total/NA	Water	NWTPH-Gx	
MB 570-187662/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 570-187662/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 570-187662/4	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MS	Matrix Spike	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	NWTPH-Gx	

### **Analysis Batch: 187780**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-32	S-15-G7	Total/NA	Solid	NWTPH-Gx	187828
MB 570-187828/3-A	Method Blank	Total/NA	Solid	NWTPH-Gx	187828
LCS 570-187828/1-A	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	187828
LCSD 570-187828/2-A	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	187828
570-73185-B-4-B MS	Matrix Spike	Total/NA	Solid	NWTPH-Gx	187828
570-73185-B-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	NWTPH-Gx	187828

### **Prep Batch: 187828**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-32	S-15-G7	Total/NA	Solid	5030C	_
MB 570-187828/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-187828/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-187828/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
570-73185-B-4-B MS	Matrix Spike	Total/NA	Solid	5030C	
570-73185-B-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030C	

### **Prep Batch: 188221**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-1	S-2.5-F1	Total/NA	Solid	5035	
570-72864-2	S-5-F1	Total/NA	Solid	5035	
570-72864-4	S-2.5-G1	Total/NA	Solid	5035	
570-72864-5	S-5-G1	Total/NA	Solid	5035	
570-72864-7	S-10-G1	Total/NA	Solid	5035	
570-72864-11	S-5-G3	Total/NA	Solid	5035	
570-72864-12	S-7.5-G3	Total/NA	Solid	5035	
570-72864-15	S-7.5-F4	Total/NA	Solid	5035	
570-72864-16	S-10-F4	Total/NA	Solid	5035	
570-72864-17	S-12.5-F4	Total/NA	Solid	5035	
570-72864-21	S-12.5-G5	Total/NA	Solid	5035	
570-72864-26	S-15-F6	Total/NA	Solid	5035	
570-72864-27	S-2.5-G7	Total/NA	Solid	5035	
570-72864-31	S-12.5-G7	Total/NA	Solid	5035	

### **Prep Batch: 188222**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-3	S-7.5-F1	Total/NA	Solid	5035	_
570-72864-6	S-7.5-G1	Total/NA	Solid	5035	
570-72864-8	S-2.5-F2	Total/NA	Solid	5035	
570-72864-9	S-5-F2	Total/NA	Solid	5035	
570-72864-10	S-2.5-G3	Total/NA	Solid	5035	
570-72864-13	S-2.5-F4	Total/NA	Solid	5035	
570-72864-14	S-5-F4	Total/NA	Solid	5035	

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Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

## **GC VOA (Continued)**

### Prep Batch: 188222 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-18	S-5-G5	Total/NA	Solid	5035	
570-72864-19	S-7.5-G5	Total/NA	Solid	5035	
570-72864-20	S-10-G5	Total/NA	Solid	5035	
570-72864-22	S-5-F6	Total/NA	Solid	5035	
570-72864-23	S-7.5-F6	Total/NA	Solid	5035	
570-72864-24	S-10-F6	Total/NA	Solid	5035	
570-72864-25	S-12.5-F6	Total/NA	Solid	5035	
570-72864-28	S-5-G7	Total/NA	Solid	5035	
570-72864-29	S-7.5-G7	Total/NA	Solid	5035	
570-72864-30	S-10-G7	Total/NA	Solid	5035	

### **Analysis Batch: 188790**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-1	S-2.5-F1	Total/NA	Solid	NWTPH-Gx	188221
570-72864-2	S-5-F1	Total/NA	Solid	NWTPH-Gx	188221
570-72864-5	S-5-G1	Total/NA	Solid	NWTPH-Gx	188221
570-72864-7	S-10-G1	Total/NA	Solid	NWTPH-Gx	188221
MB 570-188790/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188790/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188790/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 188860**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-3	S-7.5-F1	Total/NA	Solid	NWTPH-Gx	188222
570-72864-4	S-2.5-G1	Total/NA	Solid	NWTPH-Gx	188221
570-72864-8	S-2.5-F2	Total/NA	Solid	NWTPH-Gx	188222
570-72864-9	S-5-F2	Total/NA	Solid	NWTPH-Gx	188222
MB 570-188860/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-188860/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188860/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188860/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 188902**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-6	S-7.5-G1	Total/NA	Solid	NWTPH-Gx	188222
570-72864-11	S-5-G3	Total/NA	Solid	NWTPH-Gx	188221
570-72864-12	S-7.5-G3	Total/NA	Solid	NWTPH-Gx	188221
570-72864-22	S-5-F6	Total/NA	Solid	NWTPH-Gx	188222
570-72864-23	S-7.5-F6	Total/NA	Solid	NWTPH-Gx	188222
570-72864-24	S-10-F6	Total/NA	Solid	NWTPH-Gx	188222
570-72864-25	S-12.5-F6	Total/NA	Solid	NWTPH-Gx	188222
MB 570-188902/32	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-188902/33	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188902/30	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188902/31	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 189086**

<b>Lab Sample ID</b> 570-72864-15	Client Sample ID S-7.5-F4	Prep Type Total/NA	Matrix Solid	Method NWTPH-Gx	Prep Batch 188221
570-72864-16	S-10-F4	Total/NA	Solid	NWTPH-Gx	188221
570-72864-17	S-12.5-F4	Total/NA	Solid	NWTPH-Gx	188221

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

## **GC VOA (Continued)**

### **Analysis Batch: 189086 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-18	S-5-G5	Total/NA	Solid	NWTPH-Gx	188222
570-72864-19	S-7.5-G5	Total/NA	Solid	NWTPH-Gx	188222
570-72864-20	S-10-G5	Total/NA	Solid	NWTPH-Gx	188222
570-72864-21	S-12.5-G5	Total/NA	Solid	NWTPH-Gx	188221
570-72864-26	S-15-F6	Total/NA	Solid	NWTPH-Gx	188221
570-72864-27	S-2.5-G7	Total/NA	Solid	NWTPH-Gx	188221
570-72864-31	S-12.5-G7	Total/NA	Solid	NWTPH-Gx	188221
MB 570-189086/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-189086/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-189086/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-189086/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 189371**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-10	S-2.5-G3	Total/NA	Solid	NWTPH-Gx	188222
570-72864-13	S-2.5-F4	Total/NA	Solid	NWTPH-Gx	188222
570-72864-14	S-5-F4	Total/NA	Solid	NWTPH-Gx	188222
570-72864-28	S-5-G7	Total/NA	Solid	NWTPH-Gx	188222
570-72864-29	S-7.5-G7	Total/NA	Solid	NWTPH-Gx	188222
570-72864-30	S-10-G7	Total/NA	Solid	NWTPH-Gx	188222
MB 570-189371/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-189371/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-189371/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **GC Semi VOA**

### **Prep Batch: 188710**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-1	S-2.5-F1	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-2	S-5-F1	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-3	S-7.5-F1	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-4	S-2.5-G1	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-5	S-5-G1	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-6	S-7.5-G1	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-7	S-10-G1	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-8	S-2.5-F2	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-9	S-5-F2	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-10	S-2.5-G3	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-11	S-5-G3	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-12	S-7.5-G3	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-13	S-2.5-F4	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-14	S-5-F4	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-15	S-7.5-F4	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-16	S-10-F4	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-17	S-12.5-F4	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-18	S-5-G5	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-19	S-7.5-G5	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-20 - RA	S-10-G5	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-188710/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188710/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188710/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

## GC Semi VOA (Continued)

### Prep Batch: 188710 (Continued)

Lab Sample ID LCSD 570-188710/3-A	Client Sample ID  Lab Control Sample Dup	Prep Type Silica Gel Cleanup	Matrix Solid	Method 3550C SGC	Prep Batch
LCSD 570-188710/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-1 MS	S-2.5-F1	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-1 MS	S-2.5-F1	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-1 MSD	S-2.5-F1	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-1 MSD	S-2.5-F1	Silica Gel Cleanup	Solid	3550C SGC	

### **Prep Batch: 188727**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-21	S-12.5-G5	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-22	S-5-F6	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-23 - DL	S-7.5-F6	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-24 - DL	S-10-F6	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-25	S-12.5-F6	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-26	S-15-F6	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-27	S-2.5-G7	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-28	S-5-G7	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-29	S-7.5-G7	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-30	S-10-G7	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-31	S-12.5-G7	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-32	S-15-G7	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-188727/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188727/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-188727/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-188727/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-188727/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-27 MS	S-2.5-G7	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-27 MS	S-2.5-G7	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-27 MSD	S-2.5-G7	Silica Gel Cleanup	Solid	3550C SGC	
570-72864-27 MSD	S-2.5-G7	Silica Gel Cleanup	Solid	3550C SGC	

### **Analysis Batch: 188826**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-1	S-2.5-F1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-2	S-5-F1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-3	S-7.5-F1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-4	S-2.5-G1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-5	S-5-G1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-6	S-7.5-G1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-7	S-10-G1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-8	S-2.5-F2	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-9	S-5-F2	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-10	S-2.5-G3	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-11	S-5-G3	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-12	S-7.5-G3	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-13	S-2.5-F4	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-14	S-5-F4	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-15	S-7.5-F4	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-16	S-10-F4	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-17	S-12.5-F4	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-18	S-5-G5	Silica Gel Cleanup	Solid	NWTPH-Dx	188710

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Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

## GC Semi VOA (Continued)

### **Analysis Batch: 188826 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-19	S-7.5-G5	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-21	S-12.5-G5	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-22	S-5-F6	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-25	S-12.5-F6	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-26	S-15-F6	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-27	S-2.5-G7	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-28	S-5-G7	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-29	S-7.5-G7	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-30	S-10-G7	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-31	S-12.5-G7	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-32	S-15-G7	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
MB 570-188710/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
MB 570-188727/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
LCS 570-188710/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
LCS 570-188710/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
LCS 570-188727/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
LCS 570-188727/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
LCSD 570-188710/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
LCSD 570-188710/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
LCSD 570-188727/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
LCSD 570-188727/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-1 MS	S-2.5-F1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-1 MS	S-2.5-F1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-1 MSD	S-2.5-F1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-1 MSD	S-2.5-F1	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-27 MS	S-2.5-G7	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-27 MS	S-2.5-G7	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-27 MSD	S-2.5-G7	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-27 MSD	S-2.5-G7	Silica Gel Cleanup	Solid	NWTPH-Dx	188727

### Analysis Batch: 189384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-20 - RA	S-10-G5	Silica Gel Cleanup	Solid	NWTPH-Dx	188710
570-72864-23 - DL	S-7.5-F6	Silica Gel Cleanup	Solid	NWTPH-Dx	188727
570-72864-24 - DI	S-10-F6	Silica Gel Cleanup	Solid	NWTPH-Dx	188727

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Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-2.5-F1

Lab Sample ID: 570-72864-1

**Matrix: Solid** 

Date Collected: 10/13/21 07:25 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.271 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188790	10/23/21 13:55	P1R	ECL 2
	Instrumer	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.89 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188826	10/23/21 16:22	N1A	ECL 1
	Instrumer	t ID: GC50								

**Client Sample ID: S-5-F1** Lab Sample ID: 570-72864-2

Date Collected: 10/13/21 07:30 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.68 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188790	10/23/21 14:19	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.52 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188826	10/23/21 16:43	N1A	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-7.5-F1 Lab Sample ID: 570-72864-3

Date Collected: 10/13/21 07:35 Date Received: 10/14/21 10:00

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.862 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	188860	10/23/21 21:28	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.62 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/23/21 17:02	N1A	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-2.5-G1 Lab Sample ID: 570-72864-4

Date Collected: 10/13/21 08:10 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.598 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188860	10/23/21 19:53	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.32 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188826	10/23/21 17:22	N1A	ECL 1
	Instrumen	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-5-G1

Date Collected: 10/13/21 08:15 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72864-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.365 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	188790	10/23/21 15:29	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/23/21 17:43	N1A	ECL 1
	Instrumer	it ID: GC50								

Client Sample ID: S-7.5-G1 Lab Sample ID: 570-72864-6 Date Collected: 10/13/21 08:20 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.278 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		200	5 mL	5 mL	188902	10/24/21 04:10	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			4.36 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188826	10/23/21 18:04	N1A	ECL 1
	Instrumen	t ID: GC50								

**Client Sample ID: S-10-G1** Lab Sample ID: 570-72864-7 Date Collected: 10/13/21 08:25

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.669 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC57		1	5 g	5 mL	188790	10/23/21 15:52	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			6.75 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/23/21 18:23	N1A	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-2.5-F2 Lab Sample ID: 570-72864-8 Date Collected: 10/13/21 08:30 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.31 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	188860	10/23/21 22:39	P1R	ECL 2
	Instrumer	it ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.82 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/23/21 18:43	N1A	ECL 1
	Instrumer	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-5-F2

Date Collected: 10/13/21 08:35 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72864-9

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.696 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		500	5 mL	5 mL	188860	10/23/21 23:02	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.27 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188826	10/23/21 19:03	N1A	ECL 1
	Instrumen	t ID: GC50								

Lab Sample ID: 570-72864-10 Client Sample ID: S-2.5-G3 Date Collected: 10/13/21 08:40 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.74 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	189371	10/26/21 20:58	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.61 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188826	10/23/21 19:24	N1A	ECL 1
	Instrumen	t ID: GC50								

**Client Sample ID: S-5-G3** Lab Sample ID: 570-72864-11 Date Collected: 10/13/21 08:45 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.378 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188902	10/24/21 02:12	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.61 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188826	10/23/21 20:24	N1A	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-7.5-G3 Lab Sample ID: 570-72864-12

Date Collected: 10/13/21 08:50 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.013 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188902	10/24/21 02:35	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.41 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/23/21 20:45	N1A	ECL 1
	Instrumen	t ID: GC50								

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Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-2.5-F4

Client: Cardno, Inc

Date Collected: 10/13/21 09:00 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72864-13

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.157 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	189371	10/26/21 21:21	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.70 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188826	10/23/21 21:04	N1A	ECL 1
	Instrumer	nt ID: GC50								

**Client Sample ID: S-5-F4** 

Date Collected: 10/13/21 09:05 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72864-14 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.411 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC56		500	5 mL	5 mL	189371	10/26/21 21:45	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			5.80 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188826	10/23/21 21:25	N1A	ECL 1
	Instrumen	t ID: GC50								

**Client Sample ID: S-7.5-F4** 

Date Collected: 10/13/21 09:15 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72864-15

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.861 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	189086	10/25/21 19:11	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.97 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/23/21 21:45	N1A	ECL 1
	Instrumen	it ID: GC50								

Client Sample ID: S-10-F4

Date Collected: 10/13/21 09:20 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72864-16 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.659 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	189086	10/25/21 19:35	P1R	ECL 2
	Instrumen	it ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.54 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/23/21 22:05	N1A	ECL 1
	Instrumen	t ID: GC50								

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Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-12.5-F4

Client: Cardno, Inc

Date Collected: 10/13/21 09:25 Date Received: 10/14/21 10:00

Lab Sample ID: 570-72864-17

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.517 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	189086	10/25/21 19:58	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			6.09 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/23/21 22:25	N1A	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-5-G5 Lab Sample ID: 570-72864-18 **Matrix: Solid** 

Date Collected: 10/13/21 09:30 Date Received: 10/14/21 10:00

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA Prep 5035 6.607 g 5 mL 188222 10/21/21 12:59 YZL3 ECL 2 Total/NA **NWTPH-Gx** ECL 2 Analysis 100 5 mL 5 mL 189086 10/25/21 20:22 P1R Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 5.91 g 10 mL 188710 10/22/21 17:41 N5Y3 ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 188826 10/23/21 22:46 N1A ECL 1 10 Instrument ID: GC50

Client Sample ID: S-7.5-G5 Lab Sample ID: 570-72864-19 **Matrix: Solid** 

Date Collected: 10/13/21 09:35 Date Received: 10/14/21 10:00

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 7.355 g 5 mL 188222 10/21/21 12:59 YZL3 ECL 2 Total/NA Analysis NWTPH-Gx 100 5 mL 5 mL 189086 10/25/21 20:46 P1R ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 10/22/21 17:41 N5Y3 ECL 1 Prep 9.59 g 10 mL 188710 Silica Gel Cleanup Analysis NWTPH-Dx 20 188826 10/23/21 23:06 N1A ECL 1 Instrument ID: GC50

Client Sample ID: S-10-G5 Lab Sample ID: 570-72864-20

Date Collected: 10/13/21 09:40 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.343 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	189086	10/26/21 01:03	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC	RA		3.86 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	RA	1			189384	10/26/21 14:40	UJ3K	ECL 1
	Instrumen	t ID: GC48								

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Project/Site: ExoonMobil ADC/0314476040

Client: Cardno, Inc

Client Sample ID: S-12.5-G5

Lab Sample ID: 570-72864-21 Date Collected: 10/13/21 09:45 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.662 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	189086	10/25/21 22:18	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			4.51 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/24/21 03:13	N1A	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-5-F6 Lab Sample ID: 570-72864-22 Date Collected: 10/13/21 09:55 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.805 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		200	5 mL	5 mL	188902	10/24/21 04:33	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			7.76 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx at ID: GC50		5			188826	10/24/21 03:34	N1A	ECL 1

**Client Sample ID: S-7.5-F6** Lab Sample ID: 570-72864-23 Date Collected: 10/13/21 10:00 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.648 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		200	5 mL	5 mL	188902	10/24/21 04:57	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC	DL		5.81 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	25			189384	10/26/21 16:02	UJ3K	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-F6 Lab Sample ID: 570-72864-24

Date Collected: 10/13/21 10:05 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.143 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		200	5 mL	5 mL	188902	10/24/21 05:20	P1R	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC	DL		5.32 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			189384	10/26/21 16:23	UJ3K	ECL 1
	Instrumen	t ID: GC48								

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Project/Site: ExoonMobil ADC/0314476040

Client: Cardno, Inc

Client Sample ID: S-12.5-F6 Lab Sample ID: 570-72864-25

Date Collected: 10/13/21 10:10 **Matrix: Solid** Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.94 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		200	5 mL	5 mL	188902	10/24/21 05:44	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			5.95 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188826	10/24/21 04:37	N1A	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-15-F6 Lab Sample ID: 570-72864-26 Date Collected: 10/13/21 10:15 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.07 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC56		1	5 g	5 mL	189086	10/25/21 22:41	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			5.04 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/24/21 04:57	N1A	ECL 1
	Instrumen	t ID: GC50								

Lab Sample ID: 570-72864-27 **Client Sample ID: S-2.5-G7** Date Collected: 10/13/21 10:30 **Matrix: Solid** 

Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.955 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	189086	10/25/21 23:05	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			4.86 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188826	10/24/21 05:18	N1A	ECL 1
	Instrumer	nt ID: GC50								

**Client Sample ID: S-5-G7** Lab Sample ID: 570-72864-28

Date Collected: 10/13/21 10:35 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.76 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	189371	10/26/21 18:41	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			6.16 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188826	10/24/21 05:39	N1A	ECL 1
	Instrumer	t ID: GC50								

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Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: S-7.5-G7

Lab Sample ID: 570-72864-29

**Matrix: Solid** 

Date Collected: 10/13/21 10:40 Date Received: 10/14/21 10:00

Client: Cardno, Inc

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.698 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	189371	10/26/21 19:05	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			7.88 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188826	10/24/21 06:00	N1A	ECL 1
	Instrumer	t ID: GC50								

Lab Sample ID: 570-72864-30

**Matrix: Solid** 

Date Collected: 10/13/21 10:45 Date Received: 10/14/21 10:00

Client Sample ID: S-10-G7

Dil Initial Batch Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 188222 Prep 5.927 g 5 mL 10/21/21 12:59 YZL3 ECL 2 Total/NA **NWTPH-Gx** ECL 2 Analysis 100 5 mL 5 mL 189371 10/26/21 20:34 P1R Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 8.13 g 10 mL 188727 10/22/21 18:28 N5Y3 ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 188826 10/24/21 06:21 N1A ECL 1 5 Instrument ID: GC50

Client Sample ID: S-12.5-G7 Lab Sample ID: 570-72864-31

Date Collected: 10/13/21 10:50 **Matrix: Solid** Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.657 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	189086	10/26/21 00:39	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			2.59 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/24/21 06:42	N1A	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-15-G7 Lab Sample ID: 570-72864-32

Date Collected: 10/13/21 10:55 **Matrix: Solid** Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			4.97 g	5 mL	187828	10/20/21 09:50	U1MC	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187780	10/20/21 17:17	A9VE	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			5.03 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188826	10/24/21 07:02	N1A	ECL 1
	Instrumen	t ID: GC50								

**Eurofins Calscience LLC** 

10/28/2021

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Client Sample ID: Trip Blank Lab Sample ID: 570-72864-33

Matrix: Water

Date Collected: 10/13/21 00:00 Date Received: 10/14/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/19/21 23:30	P1R	ECL 2
	Instrument ID: GC25									

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

## **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-12-22

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## **Method Summary**

Client: Cardno, Inc Job ID: 570-72864-1

Project/Site: ExoonMobil ADC/0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2
5035	Closed System Purge and Trap	SW846	ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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### de Guia, Cecile

**From:** Bobby Thompson <robert.thompson@cardno.com>

Sent: Thursday, October 28, 2021 10:15 AM

**To:** de Guia, Cecile; Laina Cole; Cam Penner-Ash; Paul Prevou

**Subject:** RE: Eurofins Calscience sample confirmation files from 570-72864-1 ExoonMobil

ADC/0314476040

EXTERNAL EMAIL*

Hello Cecile,

Yes, please report the sample from the aliquot collected from the soil jar.

Thank you,

Bobby

#### **Bobby Thompson**

SENIOR PROJECT MANAGER CARDNO

Mobile +1 206 510 5855

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108 Email robert.thompson@cardno.com Web www.cardno.com

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From: de Guia, Cecile < Cecile.de Guia @eurofinset.com>

Sent: Thursday, October 28, 2021 11:09 AM

**To:** Bobby Thompson <robert.thompson@cardno.com>; Laina Cole <laina.cole@cardno.com>; Cam Penner-Ash <cameron.penner-ash@cardno.com>; Paul Prevou <paul.prevou@cardno.com>

Subject: RE: Eurofins Calscience sample confirmation files from 570-72864-1 ExoonMobil ADC/0314476040

Importance: High

Hi Bobby,

I just want to let you know that we never received the missing terracores for sample S-15-G7 (570-72864-32). They were not included in the shipment received the next day, 10/15/2021.

Therefore, the aliquot for TPH as Gasoline was taken from the soil jar. Please confirm if you want the result reported? Thank you.



**Eurofins Calscience** 7440 Lincoln Way Garden Grove, Ca 92841 USA

P: +1 714 895 5494 F: +1 714 894 7501

Cecile.deGuia@eurofinset.com www.EurofinsUS.com/Calscience

From: Bobby Thompson < <a href="mailto:robert.thompson@cardno.com">robert.thompson@cardno.com</a>>

Sent: Friday, October 15, 2021 10:02 AM

To: de Guia, Cecile < Cecile.deGuia@eurofinset.com>; Laina Cole < laina.cole@cardno.com>; Cam Penner-Ash

<cameron.penner-ash@cardno.com>; Paul Prevou <paul.prevou@cardno.com>

Subject: RE: Eurofins Calscience sample confirmation files from 570-72864-1 ExoonMobil ADC/0314476040

**EXTERNAL EMAIL*** 

Hello Cecile,

There should have been one other cooler arrive today. Can you see if the VOAs for S-15-G7 are in the other cooler? Otherwise, I realize it would not be properly preserved, but could you use soil from the jar to complete the full analysis for G/d/mo?

Thank you,

**Bobby** 

### **Bobby Thompson**

SENIOR PROJECT MANAGER **CARDNO** 

Mobile +1 206 510 5855

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108

Email robert.thompson@cardno.com Web www.cardno.com

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From: de Guia, Cecile < <a href="mailto:Cecile.deGuia@eurofinset.com">Cecile.deGuia@eurofinset.com</a>>

Sent: Friday, October 15, 2021 10:40 AM

To: Laina Cole < <a href="mailto:laina.cole@cardno.com">! Cam Penner-Ash | Cole < a href="mailto:laina.cole@cardno.com">! Cam Penner-Ash | Call < a href="mailto:laina.cole@cardno.com">! Call < a href="mailto:laina.

<cameron.penner-ash@cardno.com>; Paul Prevou <paul.prevou@cardno.com>

Subject: FW: Eurofins Calscience sample confirmation files from 570-72864-1 ExoonMobil ADC/0314476040

Importance: High

#### Good morning,

I forgot to mention that for sample S-15-G7 (570-72864-32), we only received 1 container (4oz glass jar) and no TerraCores. The COC listed 4 containers, please fix and email back the revised COC.

Do you still want us to analyze NWTPH-Gx TPH as Gasoline from the soil jar? Please let me know.

Thank you.

Best regards, Cecile de Guia Project Manager



Eurofins Calscience, LLC 7440 Lincoln Way Garden Grove, CA 92841 USA

Phone: +1 714 895 5494

Email: <u>Cecile.deGuia@eurofinset.com</u>
Website: <u>www.eurofinsUS.com/Calscience</u>

From: de Guia, Cecile < <a href="mailto:Cecile.deGuia@eurofinset.com">Cecile.deGuia@eurofinset.com</a>>

**Sent:** Friday, October 15, 2021 9:26 AM

**To:** Cameron Penner-Ash < <a href="mailto:cameron.penner-ash@cardno.com">cameron.penner-ash@cardno.com</a>>; Laina Cole < <a href="mailto:laina.cole@cardno.com">laina.cole@cardno.com</a>>; Bobby Thompson

<<u>robert.thompson@cardno.com</u>>

Subject: Eurofins Calscience sample confirmation files from 570-72864-1 ExoonMobil ADC/0314476040

Hello,

Attached please find the sample confirmation files for job 570-72864-1; ExoonMobil ADC/0314476040

Please feel free to contact me if you have any questions.

Thank you.

#### Cecile de Guia

Project Manager

Eurofins Calscience LLC Phone: 714-895-5494

E-mail: Cecile.deGuia@eurofinset.com

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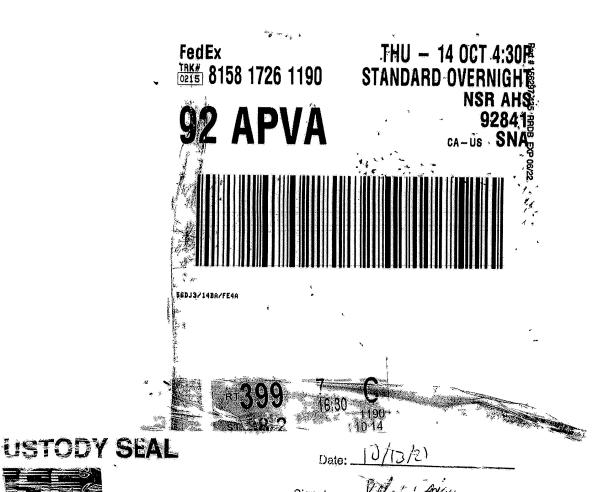
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10/28/2021

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Calscience		841-1432			9	lo ma	AFE for major projects	
	I EL: (/14) 895-5494 . FAX: (/14) 894-7501	K: (/14) 894-/601	2 Z	Retall Project (MRN) Major Project (AFE)	)			PAGE:   PAGE:
ExxonMobil Engr	Jennifer Sedlachek		ے	Project Name	**************************************	Exx	ExxonMobil ADC / 0314476040	
LABORATORY CLIENT					GLOBAL ID #/ COELT LOG CODE	ELT LOG CC	3DE:	
ADDRESS					·			P O 0314476040 Agreement# A2604415
309 South Cloverdale Street Unit A13	et Unit A13				PROJECT CONTACT	ACT		LAR USE ONLY
Seattle, WA 98108	. EAX				SAMPLER(S): P	aul Pre	SAMPLERIS: Paul Prevou, Cameron Penner-Ash. John	COOLER RECEIPT
THRNAROLIND TIME	N/A	robert.thom	)uosa	robert.thompson@cardno.com	Considine			Temp:≑ °C
SAME DAY 24 HR	□48 HR □72 HR	☐ 5 DAYS ☑	☑ 10 DAYS				REQUESTE	REQUESTED ANALYSIS
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY	STS MAY APPLY)  SARCHIVE SAMPLES UNTIL	TL / /						
SPECIAL INSTRUCTIONS.  Required EIM and Cardno FDDs. Perform Silica Gal Cleanin - 0.5 erams Groun results hu sometic and hu machine matched.	m Silica Gel Cleanin - 0 5 orams	Groun results hy samela		in the second se				
Inequired Limitaria Caruno Loba. Ferioriii Sinca del Creanup - U.S grams. Group results by sample, not by analysis metho Include "Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thompson@cardno.com Alunits in mg/kg.	in since set creamp - 5.5 grams tht correction. Report to: laina.c	s. Group resuits by sample cole@cardno.com, robert.tl	, not by : hompsor	analysis method. Ocardno.com	es H9T			
to: lama.com	r. mompson@cardno.com, and	cameron.penner-ash@card	mo.com	T. NO. OF CONT	×a_H	IIO		570-72864 Chain of Custody
USE: SAMPLE ID	Field Point Name	DATE TIME	æ	×	TWN TWN	Motor	-	CONTAINER
7	S-2.5-FI		Н		×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar
7 5-5-F	5-5-F	10/13/2021 0730	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	22 un-preserved glass jar
1, 5-2,5-(5)	5-7.5 FI	10/43 /2021 04:35	-	0 S	<  × <  ×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar oz innoneserved niass jar
5-5-61	5-5-61	10/13/2021 0815	↓		×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass Jar	oz un-preserved glass jar
(0 5-7.5-G1	5-7.5-61	10/13 /2021 0820			×	L	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar
	5-10-61	10/13/2021 6825	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar
\$ 0-2.5 F	3-25-72	10/13/2021 6630	1		+	1	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	22 un-preserved glass jar
-	5-2.6-63	10/13/2021 0835	0 0	1 4	<  ×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar 2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved place jar	Dz un-preserved glass jar 77 in-preserved niass jar
845-63	۱	19/ - 2021 ABU	Ц		X		2 Sodium Distifett VO1s, 4 Methons VOA one	
11 5-5-63		10/ 13/2021 0845		4	×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar
12 5-7.5-63		10/13/2021 09.50	$\perp$				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	22 un-preserved glass jar
10 5-2.5 Fq	7-2.5-24		S		×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar
14 1-3 -F#	0.3.7.F.	10/18/2021 0905	╁	4 4	<		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	2z un-preserved glass jar
	(-10 - EU	10/14/2021 10992	+		< ×	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 402 un-preserved glass jar	22 un-preserved grass jar
	1-12.5-F4	10/3/2021 092	<u> </u>	_	-		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	2Z un-preserved glass jar
59-5-81	3.5-65		Ш		×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar
	2-3-5-65	10/13/2021 0435	4		×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	oz un-preserved glass jar
10 5-10-65	59-01-5	10/13/2021 0940	প	*	*		: a	
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				orecany (cognitions)		-	Jank	1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   1000   10
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Page 56 of 57

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Client: Cardno, Inc Job Number: 570-72864-1

Login Number: 72864 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Creator: Ramos, Maribei		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

**Eurofins Calscience LLC** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-73066-1

Client Project/Site: ExxonMobil ADC/0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Soma

Authorized for release by: 10/29/2021 9:51:36 AM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS

Review your project results through

Total Access

**Have a Question?** 



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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Cardno, Inc Project/Site: ExxonMobil ADC/0314476040 Laboratory Job ID: 570-73066-1

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# **Sample Summary**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

570-73066-30

S-10-N4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-73066-1	S-2.5-H1	Solid	10/13/21 14:05	10/15/21 08:19
570-73066-2	S-5-H1	Solid	10/13/21 14:10	10/15/21 08:19
570-73066-3	S-7.5-H1	Solid	10/13/21 14:15	10/15/21 08:19
570-73066-4	S-10-H1	Solid	10/13/21 14:20	10/15/21 08:19
570-73066-5	S-2.5-I1	Solid	10/13/21 14:25	10/15/21 08:19
570-73066-6	S-5-I1	Solid	10/13/21 14:30	10/15/21 08:19
570-73066-7	S-7.5-I1	Solid	10/13/21 14:35	10/15/21 08:19
570-73066-8	S-10-I1	Solid	10/13/21 14:40	10/15/21 08:19
570-73066-9	S-2.5-J1	Solid	10/13/21 14:45	10/15/21 08:19
570-73066-10	S-5-J1	Solid	10/13/21 14:50	10/15/21 08:19
570-73066-11	S-7.5-J1	Solid	10/13/21 14:55	10/15/21 08:19
570-73066-12	S-2.5-K1	Solid	10/13/21 15:00	10/15/21 08:19
570-73066-13	S-5-K1	Solid	10/13/21 15:05	10/15/21 08:19
570-73066-14	S-7.5-K1	Solid	10/13/21 15:10	10/15/21 08:19
570-73066-15	S-2.5-L2	Solid	10/13/21 15:15	10/15/21 08:19
570-73066-16	S-5-L2	Solid	10/13/21 15:20	10/15/21 08:19
570-73066-17	S-7.5-L2	Solid	10/13/21 15:25	10/15/21 08:19
570-73066-18	S-2.5-M1	Solid	10/13/21 15:30	10/15/21 08:19
570-73066-19	S-5-M1	Solid	10/13/21 15:35	10/15/21 08:19
570-73066-20	S-7.5-M1	Solid	10/13/21 15:40	10/15/21 08:19
570-73066-21	Trip Blank	Water	10/14/21 00:00	10/15/21 08:19
570-73066-22	S-15-B9A	Solid	10/14/21 07:55	10/15/21 08:19
570-73066-23	S-2.5-M3	Solid	10/14/21 08:40	10/15/21 08:19
570-73066-24	S-5-M3	Solid	10/14/21 08:45	10/15/21 08:19
570-73066-25	S-7.5-M3	Solid	10/14/21 08:50	10/15/21 08:19
570-73066-26	S-10-M3	Solid	10/14/21 08:55	10/15/21 08:19
570-73066-27	S-2.5-N4	Solid	10/14/21 09:00	10/15/21 08:19
570-73066-28	S-5-N4	Solid	10/14/21 09:09	10/15/21 08:19
570-73066-29	S-7.5-N4	Solid	10/14/21 09:10	10/15/21 08:19

Solid

10/14/21 09:15 10/15/21 08:19

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# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

### **Qualifiers**

00			٨
GU	, v	U	А

Qualifier Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.

### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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### Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73066-1

Job ID: 570-73066-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-73066-1

### Comments

No additional comments.

### Receipt

The samples were received on 10/15/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 187778. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 187627. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 188035. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-5-L2 (570-73066-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 188043. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-189371.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### **Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-H1					Lab Sample ID: 5	70-73066-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	160		25	mg/Kg	5 → NWTPH-Dx	Silica Gel
L						Cleanup
Client Sample ID: S-5-H1					Lab Sample ID: 5	70-73066-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Diesel Range	900		53	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	1300		53	mg/Kg	10 ☆ NWTPH-Dx	Cleanup Silica Gel Cleanup
Client Sample ID: S-7.5-H1					Lab Sample ID: 5	<u> </u>
					•	
Analyte		Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	140		10	mg/Kg	50 NWTPH-Gx	Total/NA
TPH as Motor Oil Range	360		10	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Diesel Range - DL	4000		100	mg/Kg	10 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-H1					Lab Sample ID: 5	70-73066-4
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	35		20	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-I1					Lab Sample ID: 5	
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	20		5.5	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-I1					Lab Sample ID: 5	
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	95		12	mg/Kg	50 🌣 NWTPH-Gx	Total/NA
TPH as Diesel Range	5700		28	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
TDU Matan O'l Barrer	440		00		E de NIMEROLL De	Cleanup
TPH as Motor Oil Range	440		28	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-I1					Lab Sample ID: 5	70-73066-7
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	13		0.61	mg/Kg	1 ☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	360		22	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-I1					Lab Sample ID: 5	70-73066-8
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	36		14	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel

This Detection Summary does not include radiochemical test results.

Cleanup

10/29/2021

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-J1					Lab Sa	mple ID: 5	70-73066-9
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Diesel Range	2100		58	mg/Kg	10 🜣	NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	5700		58	mg/Kg	10 ☆	NWTPH-Dx	Cleanup Silica Gel
Triff as Motor Oil Range	3700		30	mg/Kg	10 🖟	NW II II-DX	Cleanup
Client Sample ID: S-5-J1					Lab Sar	nple ID: 57	0-73066-10
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	580		100	mg/Kg	500	· <del></del>	Total/NA
TPH as Diesel Range	6200		60	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel
							Cleanup
TPH as Motor Oil Range	490		60	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-J1					Lab Sar	nple ID: 57	0-73066-11
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	8.0		0.24	mg/Kg	1 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range	15		6.3	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-2.5-K1					Lab Sar	nple ID: 57	0-73066-12
Analyte	Posult	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	970	<u>quaiiiei</u>	47	mg/Kg			Total/NA
TPH as Diesel Range	15000		56	mg/Kg		NWTPH-Dx	Silica Gel
				0 0			Cleanup
TPH as Motor Oil Range	3600		56	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-K1					Lab Sar	nple ID: 57	0-73066-13
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	620		50	mg/Kg	250	NWTPH-Gx	Total/NA
TPH as Diesel Range	6200		60	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel
TDI A MATAR O'I BARRA	440		0.0		4	NIM/TOLL D	Cleanup
TPH as Motor Oil Range	110		6.0	mg/Kg	<b>1</b> ☆	NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-K1					Lab San	nple ID: 57	0-73066-14
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.2		0.45	mg/Kg	<u> </u>	NWTPH-Gx	Total/NA
Client Sample ID: S-2.5-L2					Lab Sar	nple ID: 57	0-73066-15
Analyte	Result	Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	98		12	mg/Kg	50 🜣	NWTPH-Gx	Total/NA
TPH as Diesel Range	5400		57	mg/Kg	10 ☼	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1400		57	mg/Kg	10 ☆	NWTPH-Dx	Silica Gel
Client Sample ID: S-5-L2					I ah San	nnia ID: 57	Cleanup 0-73066-16
Chefft Sample ID. 3-5-L2					Lau Sai	טו און וויים. 3/	0-7 3000-10
Analyte		Qualifier	RL	Unit Unit	Dil Fac D		Prep Type
TPH as Gasoline (C4-C13)	920		110	mg/Kg	500 ☆	NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

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10/29/2021

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-5-L2 (Co	ntinue	d)			Lab Sample ID:	570-73066-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Diesel Range	8200		54	mg/Kg	10   □ NWTPH-Dx	
TPH as Motor Oil Range	8200		54	mg/Kg	10 ☆ NWTPH-Dx	Cleanup Silica Gel
TETT as Motor Oil Narige	0200		34	mg/Kg	IO SE INVVIENTEDA	Cleanup
Client Sample ID: S-7.5-L2					Lab Sample ID:	570-73066-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	12		6.2	mg/Kg	1 Ø NWTPH-Dx	
, and the second				0 0		Cleanup
Client Sample ID: S-2.5-M1					Lab Sample ID:	570-73066-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	4.0		0.21	mg/Kg	1 🌣 NWTPH-G	
TPH as Diesel Range	460		29	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
						Cleanup
TPH as Motor Oil Range	320		29	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-M1					Lab Sample ID:	<u> </u>
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	2000		600	mg/Kg	2500 🌣 NWTPH-GX	
TPH as Diesel Range	4200		62	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	910		62	mg/Kg	5 ☆ NWTPH-Dx	
· · · · ·				3 3		Cleanup
Client Sample ID: S-7.5-M1					Lab Sample ID:	570-73066-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	25		4.5	mg/Kg	20 🌣 NWTPH-Gx	Total/NA
Client Sample ID: Trip Blank					Lab Sample ID:	570-73066-2

No Detections.

Client Sample ID: S-15-B9A Lab Sample ID: 570-73066-22

No Detections.

Client Sample ID: S-2.5-M3	Lab Sample ID: 570-73066-23

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	2700	530	mg/Kg	2500	☼ NWTPH-Gx	Total/NA
TPH as Motor Oil Range	830	29	mg/Kg	5	☼ NWTPH-Dx	Silica Gel Cleanup
TPH as Diesel Range - DL	16000	290	mg/Kg	50	☼ NWTPH-Dx	Silica Gel Cleanup

# Client Sample ID: S-5-M3 Lab Sample ID: 570-73066-24

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	390	91	mg/Kg	500	₩	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	330	5.6	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

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Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-5-M3	(Continue	d)			Lab Sa	mple ID: 57	0-73066-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
ГРН as Diesel Range - DL	2600		56	mg/Kg	10	NWTPH-Dx	Silica Gel
							Cleanup
lient Sample ID: S-7.5-M	13				Lab Sa	mple ID: 57	0-73066-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Gasoline (C4-C13)	16		0.74	mg/Kg	1 3	NWTPH-Gx	Total/NA
ГРН as Diesel Range	240		23	mg/Kg	1 ⊰	∵ NWTPH-Dx	Silica Gel
ГРН as Motor Oil Range	280		23	mg/Kg	1 3	∴ NWTPH-Dx	Cleanup Silica Gel
11 11 as Motor Oil Hange	200		25	mg/rtg	1 >		Cleanup
lient Sample ID: S-10-M	3				Lab Sa	mple ID: 57	0-73066-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Gasoline (C4-C13)			0.77	mg/Kg	1 3	NWTPH-Gx	Total/NA
ΓPH as Diesel Range	930		15	mg/Kg	1 ⊰	⇔ NWTPH-Dx	Silica Gel
ГРН as Motor Oil Range	1100		15	mg/Kg	1 ₃	∴ NWTPH-Dx	Cleanup Silica Gel
11 11 as Motor Oil Nange	1100		15	mg/rtg	1 >	₩ INVVIIII-DX	Cleanup
lient Sample ID: S-2.5-N	4				Lab Sa	mple ID: 57	0-73066-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Gasoline (C4-C13)	2200		450	mg/Kg	2000	NWTPH-Gx	Total/NA
ГРН as Diesel Range	7700		44	mg/Kg	5 ⊰	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	410		44	mg/Kg	5 - 3	⇔ NWTPH-Dx	Silica Gel Cleanup
lient Sample ID: S-5-N4					I ah Sa	mple ID: 57	<u> </u>
•						-	
Analyte		Qualifier	RL	Unit	Dil Fac I		Prep Type
ΓPH as Gasoline (C4-C13) ΓPH as Motor Oil Range	1600		47 5.5	mg/Kg	200 →		Total/NA
TPH as Motor Oil Range	51		5.5	mg/Kg	1 ∃	⊋ NWTPH-DX	Silica Gel Cleanup
TPH as Diesel Range - DL	4400		55	mg/Kg	10 ⊰	⇔ NWTPH-Dx	Silica Gel
							Cleanup
lient Sample ID: S-7.5-N	4				Lab Sa	mple ID: 57	0-73066-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Gasoline (C4-C13)	20		7.8	mg/Kg	20		Total/NA
TPH as Diesel Range - RA	360		10	mg/Kg	1 ₃		Silica Gel Cleanup
TPH as Motor Oil Range - RA	190		10	mg/Kg	1 ₃	∷ NWTPH-Dx	Silica Gel Cleanup
lient Sample ID: S-10-N	4				Lab Sa	mple ID: 57	0-73066-3
Analyte	Result	Qualifier	RL	Unit	Dil Fac I	D Method	Prep Type
TPH as Gasoline (C4-C13)	1.3		0.50	mg/Kg	<u> </u>	NWTPH-Gx	Total/NA
ГРН as Diesel Range	460		34	mg/Kg	5 ⊰	⇔ NWTPH-Dx	Silica Gel
					_		Cleanup
TDL as Motor Oil Dange	090		2.4	malka	E >		Cilian Cal

This Detection Summary does not include radiochemical test results.

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TPH as Motor Oil Range

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mg/Kg

Silica Gel Cleanup

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-H1

Date Collected: 10/13/21 14:05

Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-1

**Matrix: Solid** 

Job ID: 570-73066-1

Mothod: NWTPH-Gy -	Northwest .	Volatile Petroleu	m Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		0.28	mg/Kg	<u></u>	10/19/21 13:20	10/19/21 19:57	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorohenzene (Surr)	100		50 150			10/10/21 13:20	10/10/21 10:57		

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		25	mg/Kg	<u></u>	10/27/21 14:52	10/28/21 03:15	5
TPH as Motor Oil Range	160		25	mg/Kg	₽	10/27/21 14:52	10/28/21 03:15	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150			10/27/21 14:52	10/28/21 03:15	5

Lab Sample ID: 570-73066-2 Client Sample ID: S-5-H1 Matrix: Solid

Date Collected: 10/13/21 14:10

Date Received: 10/15/21 08:19

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Allalyte	Kesuit	Qualifier	NL.	Onit	U	Fiepaieu	Allalyzeu	DII Fac	
TPH as Gasoline (C4-C13)	ND		0.24	mg/Kg	₩	10/19/21 13:20	10/19/21 20:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorohenzene (Surr)	102		50 150			10/10/21 13:20	10/19/21 20:21		

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Method: MW II II-DX - Morthwe	St - Ochhi-V	Olathic i cti	loicaill i loa	acts (GG) - Cilica G	U	riculiup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	900		53	mg/Kg	₩	10/27/21 14:52	10/28/21 03:35	10
TPH as Motor Oil Range	1300		53	mg/Kg	₩	10/27/21 14:52	10/28/21 03:35	10
Surrogate		Qualifier	Limits 50, 150			Prepared 10/27/21 14:52	Analyzed	Dil Fac
	Analyte TPH as Diesel Range TPH as Motor Oil Range	Analyte         Result           TPH as Diesel Range         900           TPH as Motor Oil Range         1300           Surrogate         %Recovery	Analyte Result Qualifier TPH as Diesel Range 900 TPH as Motor Oil Range 1300  Surrogate %Recovery Qualifier	Analyte Result Qualifier RL TPH as Diesel Range 900 53 TPH as Motor Oil Range 1300 53  Surrogate %Recovery Qualifier Limits	Analyte Result Qualifier RL Unit TPH as Diesel Range 900 53 mg/Kg TPH as Motor Oil Range 1300 53 mg/Kg  Surrogate %Recovery Qualifier Limits	Analyte Result Qualifier RL Unit D TPH as Diesel Range 900 53 mg/Kg TPH as Motor Oil Range 1300 53 mg/Kg  Surrogate %Recovery Qualifier Limits	Analyte         Result TPH as Diesel Range         Qualifier         RL Surrogate         Unit Major Modern of the properties of the	TPH as Diesel Range         900         53         mg/Kg         10/27/21 14:52         10/28/21 03:35           TPH as Motor Oil Range         1300         53         mg/Kg         10/27/21 14:52         10/28/21 03:35           Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed

Client Sample ID: S-7.5-H1 Lab Sample ID: 570-73066-3 **Matrix: Solid** 

Date Collected: 10/13/21 14:15

Date Received: 10/15/21 08:19

Method: NWTPH-Gx	Northwest Valati	la Datrolaum E	Producto (CC)
IVIELLICO. NVV LPH-CIX	- Normwesi - voiam	ie Peiroieum r	MODUCIS (U.C.)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	140		10	 mg/Kg	₩	10/19/21 13:20	10/26/21 15:23	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58		50 - 150			10/19/21 13:20	10/26/21 15:23	50

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte TPH as Motor Oil Range	Result 360	Qualifier		Uni	<u> </u>	Prepared 10/27/21 14:52	Analyzed 10/28/21 03:56	Dil Fac	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosana (Surr)	107		50 150			10/27/21 11:52	10/28/21 03:56	1	

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4000		100	mg/Kg	<b>☆</b>	10/27/21 14:52	10/28/21 17:05	10

Job ID: 570-73066-1

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

Client Sample ID: S-7.5-H1 Lab Sample ID: 570-73066-3

Date Collected: 10/13/21 14:15 Date Received: 10/15/21 08:19

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed n-Octacosane (Surr) 120 50 - 150 <u>10/27/21 14:52</u> <u>10/28/21 17:05</u>

Client Sample ID: S-10-H1 Lab Sample ID: 570-73066-4

Date Collected: 10/13/21 14:20 Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result Qualifier ND	0.77	Unit mg/Kg	— <del>D</del>	Prepared 10/19/21 13:20	Analyzed 10/19/21 20:45	Dil Fac
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108	50 ₋ 150			10/19/21 13:20	10/19/21 20:45	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	20	mg/Kg	₩	10/27/21 14:52	10/28/21 04:17	1
TPH as Motor Oil Range	35	20	mg/Kg	₽	10/27/21 14:52	10/28/21 04:17	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104	50 - 150			10/27/21 14:52	10/28/21 04:17	1

Client Sample ID: S-2.5-I1 Lab Sample ID: 570-73066-5

Date Collected: 10/13/21 14:25

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result ND	Qualifier	RL 0.20	 Unit mg/Kg	_ <u>D</u>	Prepared 10/19/21 13:20	Analyzed 10/19/21 21:10	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 10/19/21 13:20	Analyzed 10/19/21 21:10	Dil Fac

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	•	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.5		mg/Kg	<u></u>	10/27/21 14:52	10/28/21 04:37	1
TPH as Motor Oil Range	20		5.5		mg/Kg	₩	10/27/21 14:52	10/28/21 04:37	1
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150				Prepared 10/27/21 14:52	Analyzed 10/28/21 04:37	Dil Fac

Client Sample ID: S-5-I1 Lab Sample ID: 570-73066-6 Date Collected: 10/13/21 14:30 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
TPH as Gasoline (C4-C13)	95		12	mg/Kg	<del>*</del>	10/19/21 13:20	10/26/21 15:47	50		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	75		50 - 150			10/19/21 13:20	10/26/21 15:47	50		

Job ID: 570-73066-1

Client Sample ID: S-5-I1 Lab Sample ID: 570-73066-6

Date Collected: 10/13/21 14:30 **Matrix: Solid** Date Received: 10/15/21 08:19

Method: NWTPH-Dx - Northwest	- Sen	ni-V	'ola	tile	Petroleum Products (	GC	- Silic	a Gel C	leanup	)
	_		_			_		_	_	_

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5700	28	mg/Kg	<u></u>	10/27/21 14:52	10/28/21 04:56	5
TPH as Motor Oil Range	440	28	mg/Kg	☼	10/27/21 14:52	10/28/21 04:56	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105	50 - 150			10/27/21 14:52	10/28/21 04:56	5

Client Sample ID: S-7.5-I1 Lab Sample ID: 570-73066-7 Date Collected: 10/13/21 14:35 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

mothod: itti ii ox itoraiii	ot tolutile	, , ott olou.	m i rodadio (GG)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	13		0.61	mg/Kg	— <u></u>	10/19/21 13:20	10/19/21 21:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		50 - 150			10/19/21 13:20	10/19/21 21:34	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Ü	nit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	360		22	m	ıg/Kg	₩	10/27/21 14:52	10/28/21 05:16	1
TPH as Motor Oil Range	ND		22	m	ıg/Kg	₩	10/27/21 14:52	10/28/21 05:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

n-Octacosane (Surr) 107 50 - 150 10/27/21 14:52 10/28/21 05:16 Client Sample ID: S-10-I1 Lab Sample ID: 570-73066-8

Date Collected: 10/13/21 14:40 Date Received: 10/15/21 08:19

Method. NWTFH-GX - NOTHING	St - Volatile	Pelioleui	ii Products (G	iC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.74	mg/Kg	☼	10/19/21 13:20	10/19/21 21:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		50 - 150			10/19/21 13:20	10/19/21 21:58	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	14	mg/Kg	₩	10/27/21 14:52	10/28/21 05:36	1
TPH as Motor Oil Range	36	14	mg/Kg	₩	10/27/21 14:52	10/28/21 05:36	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103	50 - 150			10/27/21 14:52	10/28/21 05:36	

Client Sample ID: S-2.5-J1 Lab Sample ID: 570-73066-9 Date Collected: 10/13/21 14:45 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Northwe	st - Volatile P	etroleum Pr	oducts (GC)					
Analyte	Result Qu	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.30	mg/Kg	₽	10/19/21 13:20	10/19/21 22:22	1

**Matrix: Solid** 

Lab Sample ID: 570-73066-9

Client Sample ID: S-2.5-J1 Date Collected: 10/13/21 14:45 Date Received: 10/15/21 08:19

**Matrix: Solid** 

Job ID: 570-73066-1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76	50 - 150	10/19/21 13:20	10/19/21 22:22	1

4-Bromofluorobenzene (Surr)	76	50 - 150			10/19/21 13:20	10/19/21 22:22	1
Method: NWTPH-Dx - Northwes	t - Semi-Volatile Pet	troleum Product	ts (GC) - Silica G	el (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2100	58	mg/Kg	☼	10/27/21 19:30	10/28/21 08:38	10
TPH as Motor Oil Range	5700	58	mg/Kg	₩	10/27/21 19:30	10/28/21 08:38	10

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 10/27/21 19:30 10/28/21 08:38 136

Client Sample ID: S-5-J1 Lab Sample ID: 570-73066-10 Date Collected: 10/13/21 14:50 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Nortl	hwest - Volatile	Petroleur	m Products (GC	<b>(</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	580		100	mg/Kg	<del>*</del>	10/19/21 13:20	10/21/21 13:59	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		50 - 150			10/19/21 13:20	10/21/21 13:59	500

Method: NWTPH-Dx - Nor	thwest - Semi-Volati	le Petroleum Produc	cts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6200	60	mg/Kg	<del>*</del>	10/27/21 19:30	10/28/21 09:38	10
TPH as Motor Oil Range	490	60	mg/Kg	☼	10/27/21 19:30	10/28/21 09:38	10
Surrogate n-Octacosane (Surr)	%Recovery Qual	Limits 50 - 150			<b>Prepared</b> 10/27/21 19:30	Analyzed 10/28/21 09:38	Dil Fac

Client Sample ID: S-7.5-J1 Lab Sample ID: 570-73066-11 Date Collected: 10/13/21 14:55 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - North	west - Volatile	Petroleur	m Products (GC	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	8.0		0.24	mg/Kg	₩	10/19/21 13:20	10/21/21 03:53	1
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared	Analyzed 10/21/21 03:53	Dil Fac

Method: NWTPH-Dx - No	rthwest - Semi-Volatile Pe	troleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	15	6.3	mg/Kg	₩	10/27/21 19:30	10/28/21 09:58	1
TPH as Motor Oil Range	ND	6.3	mg/Kg	☼	10/27/21 19:30	10/28/21 09:58	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97	50 - 150			10/27/21 19:30	10/28/21 09:58	1

Client Sample ID: S-2.5-K1 Lab Sample ID: 570-73066-12

Client Sample ID: S-2.5-K1 Lab Sample Date Collected: 10/13/21 15:00

Matrix: Solid

Job ID: 570-73066-1

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Nortl	nwest - Volatile	Petroleui	m Products (GC	<b>&gt;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	970		47	mg/Kg	☼	10/19/21 13:20	10/21/21 06:41	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			10/19/21 13:20	10/21/21 06:41	200

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	15000		56	mg/Kg	<u></u>	10/27/21 19:30	10/28/21 10:18	10
TPH as Motor Oil Range	3600		56	mg/Kg	₩	10/27/21 19:30	10/28/21 10:18	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		50 - 150			10/27/21 19:30	10/28/21 10:18	10

Client Sample ID: S-5-K1

Date Collected: 10/13/21 15:05

Lab Sample ID: 570-73066-13

Matrix: Solid

Date Received: 10/15/21 08:19

Date Received: 10/15/21 08:19

- Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	620		50	mg/Kg	<del>*</del>	10/19/21 13:20	10/21/21 07:05	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			10/19/21 13:20	10/21/21 07:05	250

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6200		60	mg/Kg	<del>-</del>	10/27/21 19:30	10/28/21 14:59	10
TPH as Motor Oil Range	110		6.0	mg/Kg	☼	10/27/21 19:30	10/28/21 10:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101		50 - 150			10/27/21 19:30	10/28/21 10:37	1
n-Octacosane (Surr)	106		50 - 150			10/27/21 19:30	10/28/21 14:59	10

Client Sample ID: S-7.5-K1

Date Collected: 10/13/21 15:10

Lab Sample ID: 570-73066-14

Matrix: Solid

Method: NWTPH-Gx - Northw	est - Volatile	Petroleur	m Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.2		0.45	mg/Kg	— <u> </u>	10/19/21 13:20	10/19/21 22:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		50 - 150			10/19/21 13:20	10/19/21 22:47	1

Method: NWTPH-Dx - No	rthwest - Semi-Volatile Pe	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	8.2	mg/Kg	<u></u>	10/27/21 19:30	10/28/21 10:56	1
TPH as Motor Oil Range	ND	8.2	mg/Kg	₩	10/27/21 19:30	10/28/21 10:56	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107	50 - 150			10/27/21 19:30	10/28/21 10:56	1

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-L2

Date Collected: 10/13/21 15:15 Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-15

**Matrix: Solid** 

Method: NWTPH-Gx - Northwe	est - Volatile Petroleum F	Products (GC)
Analyta	Posult Qualifier	DI

Analyte	Result Qualifier	KL	Unit	ט	Prepared	Analyzeu	DIIFac
TPH as Gasoline (C4-C13)	98	12	mg/Kg	₩	10/19/21 13:20	10/26/21 16:10	50
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

4-Bromofluorobenzene (Surr) 61 50 - 150 <u>10/19/21 13:20</u> <u>10/26/21 16:10</u>

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5400		57	mg/Kg	<u></u>	10/27/21 19:30	10/28/21 11:16	10
TPH as Motor Oil Range	1400		57	mg/Kg	₩	10/27/21 19:30	10/28/21 11:16	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		50 - 150			10/27/21 19:30	10/28/21 11:16	10

Client Sample ID: S-5-L2 Lab Sample ID: 570-73066-16 **Matrix: Solid** 

Date Collected: 10/13/21 15:20

Date Received: 10/15/21 08:19

_ Method: NWTPH-Gx - North	nwest - Volatile	e Petroleui	n Products (GC	;)				
Analyte		Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	920		110	mg/Kg	<del>*</del>	10/19/21 13:20	10/21/21 13:11	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	50 - 150			10/19/21 13:20	10/21/21 13:11	500

Analyte	Result Qualifi	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	8200	54	mg/Kg	<u></u>	10/27/21 19:30	10/28/21 11:36	10
TPH as Motor Oil Range	8200	54	mg/Kg	₽	10/27/21 19:30	10/28/21 11:36	10
Surrogate	%Recovery Qualifi	ier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	118	50 - 150			10/27/21 19:30	10/28/21 11:36	10

Client Sample ID: S-7.5-L2 Lab Sample ID: 570-73066-17 **Matrix: Solid** 

Date Collected: 10/13/21 15:25

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Northy	vest - Volatile Petroleu	m Products (GC	)			
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	0.21	mg/Kg	□ <del>□</del> <del>□</del> 10/19/21 13	20 10/26/21 15:00	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96	50 - 150		10/19/21 13	20 10/26/21 15:00	1

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.2	mg/Kg	<del>-</del>	10/27/21 19:30	10/28/21 11:56	1
TPH as Motor Oil Range	12	6.2	mg/Kg	₽	10/27/21 19:30	10/28/21 11:56	1
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits 50 - 150			Prepared 10/27/21 19:30	Analyzed 10/28/21 11:56	Dil Fac

Client Sample ID: S-2.5-M1

Date Collected: 10/13/21 15:30 Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-18

**Matrix: Solid** 

Job ID: 570-73066-1

Method: NWTPH-Gx - Northy	vest - Volatile Petro	oleum Products (GC	<b>S</b> )				
Analyte	Result Qualifi	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	4.0	0.21	mg/Kg	— <u></u>	10/19/21 13:20	10/20/21 00:47	1
Surrogate	%Recovery Qualifi	ier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	50 - 150			10/19/21 13:20	10/20/21 00:47	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	460		29	mg/Kg	<u></u>	10/27/21 19:30	10/28/21 12:15	5
TPH as Motor Oil Range	320		29	mg/Kg	₩	10/27/21 19:30	10/28/21 12:15	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		50 - 150			10/27/21 19:30	10/28/21 12:15	5

Client Sample ID: S-5-M1 Lab Sample ID: 570-73066-19 Date Collected: 10/13/21 15:35 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - North	west - Volatile	Petroleui	m Products (GC	<b>&gt;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2000		600	mg/Kg	<del>*</del>	10/19/21 13:20	10/21/21 14:23	2500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150			10/19/21 13:20	10/21/21 14:23	2500

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4200		62	mg/Kg	<u></u>	10/27/21 19:30	10/28/21 12:35	5
TPH as Motor Oil Range	910		62	mg/Kg	₩	10/27/21 19:30	10/28/21 12:35	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		50 - 150			10/27/21 19:30	10/28/21 12:35	5

Lab Sample ID: 570-73066-20 Client Sample ID: S-7.5-M1 **Matrix: Solid** 

Date Collected: 10/13/21 15:40 Date Received: 10/15/21 08:19

Method: NW I PH-GX - North	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	25	4.5	mg/Kg	₩	10/19/21 13:20	10/21/21 05:53	20
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91	50 - 150			10/19/21 13:20	10/21/21 05:53	20

Method: NWTPH-Dx - No	rthwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.7	mg/Kg	<u></u>	10/27/21 19:30	10/28/21 12:55	1
TPH as Motor Oil Range	ND	6.7	mg/Kg	₽	10/27/21 19:30	10/28/21 12:55	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94	50 - 150			10/27/21 19:30	10/28/21 12:55	1

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

**Client Sample ID: Trip Blank** 

Date Collected: 10/14/21 00:00 Date Received: 10/15/21 08:19 Lab Sample ID: 570-73066-21

Matrix: Water

Method: NWTPH-Gx - Northwest -	<b>Volatile Petroleum</b>	Products (GC)
Analyte	Result Qualifier	RL

Analyte	Result	Qualifier	RL	Uni	t D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		100	ug/l			10/19/21 23:59	<u></u>	
, ,				-					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	56		50 - 150				10/19/21 23:59		

Client Sample ID: S-15-B9A

Date Collected: 10/14/21 07:55 Date Received: 10/15/21 08:19 Lab Sample ID: 570-73066-22

Matrix: Solid

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac
TPH as Gasoline (C4-C13)

ND 1.7 mg/Kg 7 10/19/21 13:20 10/21/21 12:37 1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND	<u> </u>	54	mg/Kg	— <u></u>	10/27/21 19:30	10/28/21 13:15	1
TPH as Motor Oil Range	ND		54	mg/Kg	☼	10/27/21 19:30	10/28/21 13:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		50 - 150			10/27/21 19:30	10/28/21 13:15	

Client Sample ID: S-2.5-M3 Lab Sample ID: 570-73066-23

Date Collected: 10/14/21 08:40 Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Result Qualifier Analyte RI Unit Prepared Analyzed Dil Fac 530 10/19/21 13:20 10/21/21 14:47 TPH as Gasoline (C4-C13) 2700 mg/Kg 2500 Prepared Limits Dil Fac

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

 Analyte
 Result TPH as Motor Oil Range
 Qualifier
 RL 29
 Unit mg/Kg
 D mg/Kg
 Prepared 10/27/21 19:30
 Analyzed 10/28/21 13:34
 Dil Fac 10/27/21 19:30

Surrogate%Recovery<br/>n-Octacosane (Surr)Qualifier<br/>102Limits<br/>50 - 150Prepared<br/>10/27/21 19:30Analyzed<br/>10/28/21 13:34Dil Fac<br/>50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac
TPH as Diesel Range 290 mg/Kg 0/27/21 19:30 10/28/21 15:19 50

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier 2018
 Limits 2018
 Prepared 10/27/21 19:30
 Analyzed 20/28/21 15:19
 Dil Fac 2018

Lab Sample ID: 570-73066-24 **Client Sample ID: S-5-M3** 

Date Collected: 10/14/21 08:45 Date Received: 10/15/21 08:19

**Matrix: Solid** 

Job ID: 570-73066-1

Method: NWTPH-Gx - Norti	hwest - Volatile	Petroleur	n Products (0	GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	390		91	mg/Kg	<u></u>	10/19/21 13:20	10/21/21 13:35	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150			10/19/21 13:20	10/21/21 13:35	500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte		Qualifier			=	Trepared	Allalyzea	Diriac
TPH as Motor Oil Range	330		5.6	mg/Kg	₩	10/27/21 19:30	10/28/21 13:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		50 - 150			10/27/21 19:30	10/28/21 13:53	

Method: NWTPH-Dx - No	rthwest - Semi-V	rest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2600		56	mg/Kg	<del></del>	10/27/21 19:30	10/28/21 15:40	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		50 - 150			10/27/21 19:30	10/28/21 15:40	10

Lab Sample ID: 570-73066-25 **Client Sample ID: S-7.5-M3** Date Collected: 10/14/21 08:50 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Northy	vest - Volatile	Petroleur	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	16		0.74	mg/Kg	≎	10/19/21 13:20	10/20/21 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		50 - 150			10/19/21 13:20	10/20/21 01:36	1

Analyte	Result Quali	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	240	23	mg/Kg	<del>-</del>	10/27/21 19:30	10/28/21 14:13	1
TPH as Motor Oil Range	280	23	mg/Kg	₩	10/27/21 19:30	10/28/21 14:13	1
Surrogate	%Recovery Quali	fier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101	50 - 150			10/27/21 19:30	10/28/21 14:13	1

Client Sample ID: S-10-M3 Lab Sample ID: 570-73066-26 Date Collected: 10/14/21 08:55 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	20		0.77	mg/Kg	<del>-</del>	10/19/21 13:20	10/20/21 02:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150			10/19/21 13:20	10/20/21 02:00	1

Method: NWTPH-Dx - Northwes	t - Semi-Volatile Petro	leum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	930	15	mg/Kg	<u></u>	10/27/21 19:30	10/28/21 14:32	1
TPH as Motor Oil Range	1100	15	mg/Kg	₩	10/27/21 19:30	10/28/21 14:32	1

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Client: Cardno, Inc Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-10-M3

Date Collected: 10/14/21 08:55 Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-26

Matrix: Solid

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 103 50 - 150 10/27/21 19:30 10/28/21 14:32

Client Sample ID: S-2.5-N4

Date Collected: 10/14/21 09:00 Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-27

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac 10/19/21 13:20 TPH as Gasoline (C4-C13) 2200 450 mg/Kg 10/21/21 15:10 2000 %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 101 50 - 150 10/19/21 13:20 10/21/21 15:10 2000

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range 7700 44 mg/Kg 10/27/21 19:30 10/28/21 14:52 44 10/27/21 19:30 10/28/21 14:52 5 **TPH as Motor Oil Range** 410 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 101 50 - 150 10/27/21 19:30 10/28/21 14:52

Client Sample ID: S-5-N4 Lab Sample ID: 570-73066-28

Date Collected: 10/14/21 09:09

Date Received: 10/15/21 08:19

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac mg/Kg 10/19/21 13:20 10/21/21 10:16 TPH as Gasoline (C4-C13) 1600 200 %Recovery Qualifier Surrogate I imits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 74 50 - 150 10/19/21 13:20 10/21/21 10:16 200

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Result Qualifier RL Unit Prepared Analyzed Dil Fac **TPH as Motor Oil Range** 51 5.5 mg/Kg 10/27/21 19:30 10/28/21 15:11 %Recovery Surrogate Qualifier I imits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 10/27/21 19:30 10/28/21 15:11 101

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL Analyte Result Qualifier RL Analyzed Dil Fac **TPH as Diesel Range** 4400 55 mg/Kg <u>~</u> 10/27/21 19:30 10/28/21 18:06 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed n-Octacosane (Surr) 50 - 150 10/27/21 19:30 10/28/21 18:06 98

Client Sample ID: S-7.5-N4 Lab Sample ID: 570-73066-29 Date Collected: 10/14/21 09:10 Matrix: Solid

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Northwe	est - Volatile P	etroleum I	Products (GC)					
Analyte	Result Q	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	20		7.8	mg/Kg	— <u></u>	10/19/21 13:20	10/21/21 09:05	20

# **Client Sample Results**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-N4 Lab Sample ID: 570-73066-29

Date Collected: 10/14/21 09:10 Matrix: Solid

Date Received: 10/15/21 08:19

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77	50 - 150	10/19/21 13:20	10/21/21 09:05	20

Method: NWTPH-Dx - North Analyte		olatile Pet Qualifier	roleum Produc RL	ts (GC) - Silica Unit	Gel (	Cleanup - RA Prepared	Analyzed	Dil Fac
Allalyte	Result	Qualifier		OIIII		riepaieu	Allalyzeu	Dil Fac
TPH as Diesel Range	360		10	mg/Kg	≎	10/27/21 19:30	10/28/21 18:25	1
TPH as Motor Oil Range	190		10	mg/Kg	₩	10/27/21 19:30	10/28/21 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		50 - 150			10/27/21 19:30	10/28/21 18:25	1

Lab Sample ID: 570-73066-30 Client Sample ID: S-10-N4 Date Collected: 10/14/21 09:15 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)												
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
TPH as Gasoline (C4-C13)	1.3		0.50	mg/Kg	<del>*</del>	10/19/21 13:20	10/20/21 02:24	1				
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	64		50 - 150			10/19/21 13:20	10/20/21 02:24	1				

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup											
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
TPH as Diesel Range	460	34	mg/Kg	₽	10/27/21 19:28	10/28/21 11:10	5				
TPH as Motor Oil Range	980	34	mg/Kg	☼	10/27/21 19:28	10/28/21 11:10	5				
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits			Prepared	Analyzed 10/28/21 11:10	Dil Fac				

# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Solid** Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-73066-1	S-2.5-H1	100	
570-73066-2	S-5-H1	102	
570-73066-3	S-7.5-H1	58	
570-73066-4	S-10-H1	108	
570-73066-5	S-2.5-I1	102	
570-73066-6	S-5-I1	75	
570-73066-7	S-7.5-I1	65	
570-73066-8	S-10-I1	109	
570-73066-9	S-2.5-J1	76	
570-73066-10	S-5-J1	117	
570-73066-11	S-7.5-J1	66	
570-73066-12	S-2.5-K1	72	
570-73066-13	S-5-K1	72	
570-73066-14	S-7.5-K1	88	
570-73066-15	S-2.5-L2	61	
570-73066-16	S-5-L2	155 S1+	
570-73066-17	S-7.5-L2	96	
570-73066-18	S-2.5-M1	75	
570-73066-19	S-5-M1	94	
570-73066-20	S-7.5-M1	91	
570-73066-22	S-15-B9A	79	
570-73066-23	S-2.5-M3	98	
570-73066-24	S-5-M3	101	
570-73066-25	S-7.5-M3	130	
570-73066-26	S-10-M3	91	
570-73066-27	S-2.5-N4	101	
570-73066-28	S-5-N4	74	
570-73066-29	S-7.5-N4	77	
570-73066-30	S-10-N4	64	
LCS 570-187627/3	Lab Control Sample	111	
LCS 570-188035/35	Lab Control Sample	108	
LCS 570-188043/33	Lab Control Sample	125	
LCS 570-189371/3	Lab Control Sample	112	
LCSD 570-187627/4	Lab Control Sample Dup	107	
LCSD 570-187027/4 LCSD 570-188035/36	Lab Control Sample Dup	107	
LCSD 570-188043/34	Lab Control Sample Dup	121	
LCSD 570-180043/34 LCSD 570-189371/4	Lab Control Sample Dup	105	
MB 570-187627/5	Method Blank		
MB 570-188035/37	Method Blank	97 97	
	Method Blank	97	
MB 570-188035/38		95	
MB 570-188043/36	Method Blank	95 70	
MB 570-189371/5	Method Blank	79	
MB 570-189371/6	Method Blank	79	

BFB = 4-Bromofluorobenzene (Surr)

# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Water** Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-72969-D-3 MS	Matrix Spike	89	
570-72969-D-3 MSD	Matrix Spike Duplicate	91	
570-73066-21	Trip Blank	56	
LCS 570-187662/3	Lab Control Sample	91	
LCSD 570-187662/4	Lab Control Sample Dup	87	
MB 570-187662/5	Method Blank	56	
Surrogate Legend			
BFB = 4-Bromofluorok	penzene (Surr)		

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid			Prep Type: Silica Gel Cleanu
			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-73066-1	S-2.5-H1	109	
570-73066-2	S-5-H1	113	
570-73066-3	S-7.5-H1	107	
570-73066-3 - DL	S-7.5-H1	120	
570-73066-4	S-10-H1	104	
570-73066-5	S-2.5-I1	103	
570-73066-6	S-5-I1	105	
570-73066-7	S-7.5-I1	107	
570-73066-8	S-10-I1	103	
570-73066-9	S-2.5-J1	136	
570-73066-10	S-5-J1	103	
570-73066-11	S-7.5-J1	97	
570-73066-11 MS	S-7.5-J1	102	
570-73066-11 MS	S-7.5-J1	91	
570-73066-11 MSD	S-7.5-J1	96	
570-73066-11 MSD	S-7.5-J1	88	
570-73066-12	S-2.5-K1	104	
570-73066-13	S-5-K1	106	
570-73066-13	S-5-K1	101	
570-73066-14	S-7.5-K1	107	
570-73066-15	S-2.5-L2	105	
570-73066-16	S-5-L2	118	
570-73066-17	S-7.5-L2	94	
570-73066-18	S-2.5-M1	99	
570-73066-19	S-5-M1	104	
570-73066-20	S-7.5-M1	94	
570-73066-22	S-15-B9A	99	
570-73066-23 - DL	S-2.5-M3	130	
570-73066-23	S-2.5-M3	102	
570-73066-24 - DL	S-5-M3	108	
570-73066-24	S-5-M3	100	
570-73066-25	S-7.5-M3	101	
570-73066-26	S-10-M3	103	
570-73066-27	S-2.5-N4	101	
570-73066-28	S-5-N4	101	

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# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Prep Type: Silica Gel Cleanup **Matrix: Solid** 

Lab Sample ID	Client Sample ID	OTCSN (50-150)	Percent Surrogate Recovery (Acceptance Limits)
570-73066-28 - DL	S-5-N4	98	
570-73066-29 - RA	S-7.5-N4	105	
570-73066-30	S-10-N4	73	
570-73067-A-23-A MS	Matrix Spike	98	
570-73067-A-23-B MSD	Matrix Spike Duplicate	106	
570-73067-A-23-C MS	Matrix Spike	101	
570-73067-A-23-D MSD	Matrix Spike Duplicate	100	
570-73077-A-2-A MS	Matrix Spike	109	
570-73077-A-2-B MSD	Matrix Spike Duplicate	111	
570-73077-A-2-C MS	Matrix Spike	114	
570-73077-A-2-D MSD	Matrix Spike Duplicate	110	
_CS 570-189781/2-A	Lab Control Sample	106	
_CS 570-189781/6-A	Lab Control Sample	105	
_CS 570-189870/2-A	Lab Control Sample	112	
LCS 570-189870/6-A	Lab Control Sample	112	
LCS 570-189871/2-A	Lab Control Sample	102	
_CS 570-189871/6-A	Lab Control Sample	100	
_CSD 570-189781/3-A	Lab Control Sample Dup	102	
LCSD 570-189781/7-A	Lab Control Sample Dup	105	
_CSD 570-189870/3-A	Lab Control Sample Dup	112	
_CSD 570-189870/7-A	Lab Control Sample Dup	114	
LCSD 570-189871/3-A	Lab Control Sample Dup	100	
LCSD 570-189871/7-A	Lab Control Sample Dup	100	
MB 570-189781/1-A	Method Blank	108	
MB 570-189870/1-A	Method Blank	108	
VID 010 100010/17(	Method Blank	111	

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73066-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-187627/5 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187627** 

MB MB

Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared 0.25 10/19/21 17:02 TPH as Gasoline (C4-C13) ND mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 50 - 150 10/19/21 17:02

Lab Sample ID: LCS 570-187627/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187627** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits

TPH as Gasoline (C4-C13) 2.12 2.155 mg/Kg 101 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-187627/4 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187627** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.12 2.351 mg/Kg 111 77 - 128

LCSD LCSD

Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr) 107 50 - 150

Lab Sample ID: MB 570-187662/5 **Client Sample ID: Method Blank** 

**Matrix: Water** 

**Analysis Batch: 187662** 

MB MB Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 100 ug/L 10/19/21 18:52

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Analyzed Prepared 4-Bromofluorobenzene (Surr) 50 - 150 10/19/21 18:52 56

Lab Sample ID: LCS 570-187662/3

**Matrix: Water** 

**Analysis Batch: 187662** 

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec 2099 76 - 128 TPH as Gasoline (C4-C13) 2130 ug/L 99

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 91

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**Prep Type: Total/NA** 

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Job ID: 570-73066-1

Client Sample ID: Matrix Spike

**Client Sample ID: Matrix Spike Duplicate** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: 570-72969-D-3 MS

Lab Sample ID: 570-72969-D-3 MSD

Lab Sample ID: MB 570-188035/37

Client: Cardno, Inc

**Matrix: Solid** 

**Analysis Batch: 188035** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570 Matrix: Water Analysis Batch: 187662	-187662/4				(	Client Sa	ample	ID: Lab	Control Prep Ty	•	•
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)			2130	2111		ug/L		99	76 - 128	1	10
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	87		50 - 150								

Matrix: Water Analysis Batch: 187662									Prep Ty	pe: Total/NA
_	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	ND		2130	2070		ug/L		97	69 - 132	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	89		50 - 150							

Matrix: Water Analysis Batch: 187662							•		Prep Ty	pe: Tot	al/NA
, , , , , , , , , , , , , , , , , , , ,	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	ND		2130	2120		ug/L		100	69 - 132	2	15
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		50 - 150								

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/21/21 02:40	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150				10/21/21 02:40	1

Analysis Batch: 188035							riep type. It	Jtai/IVA
	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/21/21 03:04	20
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		<del>50 - 150</del>				10/21/21 03:04	20

10/29/2021

Job ID: 570-73066-1

Client: Cardno, Inc Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: LCS 570-188035/35

Lab Sample ID: LCSD 570-188035/36

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 188035** 

Spike LCS LCS %Rec. Result Qualifier Added Limits Analyte Unit %Rec TPH as Gasoline (C4-C13) 2.13 2.347 mg/Kg 110 77 - 128

LCS LCS

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 108 50 - 150

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 188035

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.13 2.349 mg/Kg 110 77 - 128 n

LCSD LCSD

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 108

Client Sample ID: Method Blank Lab Sample ID: MB 570-188043/36 **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 188043** 

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 10/21/21 01:16  $\overline{\mathsf{ND}}$ 5.0 mg/Kg

MB MB

Surrogate %Recovery Qualifier Dil Fac Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 95 50 - 150 10/21/21 01:16 20

Lab Sample ID: LCS 570-188043/33 **Client Sample ID: Lab Control Sample Prep Type: Total/NA** 

**Matrix: Solid** 

**Analysis Batch: 188043** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit D %Rec TPH as Gasoline (C4-C13) 2.13 2.023 95 77 - 128 mg/Kg

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150 125

Lab Sample ID: LCSD 570-188043/34

**Matrix: Solid** 

**Analysis Batch: 188043** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte 2.13 TPH as Gasoline (C4-C13) 2.003 mg/Kg 94 77 - 128

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 121

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10/29/2021

Prep Type: Total/NA

Client Sample ID: Method Blank

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Prep Type: Total/NA** 

Prep Type: Total/NA

Client: Cardno, Inc

Job ID: 570-73066-1 Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-189371/5

**Matrix: Solid** 

**Analysis Batch: 189371** 

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/26/21 14:12	1
	MB	МВ						

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 10/26/21 14:12

Lab Sample ID: MB 570-189371/6 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 189371** 

MB MB

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND	5.0	mg/Kg			10/26/21 14:36	20

MB MB

Surrogate	%Recovery Qua	ıalifier Limi	rs Prej	pared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79	50 - 1	50		0/26/21 14:36	20

Lab Sample ID: LCS 570-189371/3

**Matrix: Solid** 

**Analysis Batch: 189371** 

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	2.13	2.003		mg/Kg		94	77 - 128	 '

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 112 50 - 150

Lab Sample ID: LCSD 570-189371/4

**Matrix: Solid** 

**Analysis Batch: 189371** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.13	2.001		mg/Kg		94	77 - 128	0	16

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 105 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-189781/1-A

Matrix: Solid

Analysis Batch: 189859

**Client Sample ID: Method Blank** Prep Type: Silica Gel Cleanup **Prep Batch: 189781** 

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range ND 5.0 mg/Kg 10/27/21 14:52 10/27/21 19:21 TPH as Motor Oil Range ND 5.0 mg/Kg 10/27/21 14:52 10/27/21 19:21

MB MB

%Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 10/27/21 14:52 10/27/21 19:21 n-Octacosane (Surr) 50 - 150 108

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Project/Site: ExxonMobil ADC/0314476040

n-Octacosane (Surr)

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570- Matrix: Solid Analysis Batch: 189859	189781/2-A					Clier			: Lab Control Sample be: Silica Gel Cleanup Prep Batch: 189781
•			Spike	LCS	LCS				%Rec.
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
TPH as Diesel (C10-C28)			400	452.5		mg/Kg		113	76 - 126
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
n-Octacosane (Surr)	106		50 - 150						
_ Lab Sample ID: LCS 570-	189781/6-A					Clier	nt Sai	mple ID	: Lab Control Sample

Matrix: Solid	10370170-A					Olici		iel Cleanup		
Analysis Batch: 189859										ch: 189781
_			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)			400	407.1		mg/Kg		102	71 - 139	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	105		50 - 150							
_										

	Lab Sample ID: LCSD 570 Matrix: Solid	-189781/3-A	<b>\</b>				Client Sa			Control be: Silica		•
	Analysis Batch: 189859									Prep Ba	atch: 18	89781
	•			Spike	LCSD	LCSD				%Rec.		RPD
	Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
-	TPH as Diesel (C10-C28)			400	432.1		mg/Kg		108	76 - 126	5	20
		LCSD	LCSD									
	Surrogate	%Recovery	Qualifier	Limits								

50 - 150

102

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 189859	)-189781/7- <b>A</b>			Client Sample ID: Lab Control Sam Prep Type: Silica Gel ( Prep Batch:							anup
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)			400	406.8		mg/Kg		102	71 - 139	0	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	105		50 - 150								

Lab Sample ID: 570-7306 Matrix: Solid Analysis Batch: 189859	7-A-23-A MS						Client Sample ID: Matr Prep Type: Silica Gel Prep Batch				nup
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
TPH as Diesel (C10-C28)	140		499	607.5		mg/Kg	<u></u>	94	37 - 175		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	98		50 150								

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Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-73067-A-23-B MSD	Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 189859

**Prep Batch: 189781** Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec 37 - 175 TPH as Diesel (C10-C28) 140 538 662.6 mg/Kg 97 9 20

MSD MSD Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 106 50 - 150

Lab Sample ID: 570-73067-A-23-C MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Silica Gel Cleanup** 

Analyte

Analysis Batch: 189859

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 200 489 582.0 mg/Kg 79 71 - 174

MS MS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 101 50 - 150

Lab Sample ID: 570-73067-A-23-D MSD

**Matrix: Solid** 

**Analysis Batch: 189859 Prep Batch: 189781** Spike MSD MSD %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits RPD Limit %Rec TPH as Motor Oil (C17-C44) 200 478 633.0 mg/Kg 91 71 - 174

MSD MSD %Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 100 50 - 150

Lab Sample ID: MB 570-189870/1-A

**Matrix: Solid** 

**Client Sample ID: Method Blank** Prep Type: Silica Gel Cleanup **Analysis Batch: 189785 Prep Batch: 189870** MB MB

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND	5.0	mg/Kg		10/27/21 19:28	10/27/21 21:19	1
TPH as Motor Oil Range	ND	5.0	mg/Kg		10/27/21 19:28	10/27/21 21:19	1

MB MB %Recovery Qualifier Limits 108

Surrogate Prepared Analyzed n-Octacosane (Surr) 50 - 150 10/27/21 19:28 10/27/21 21:19

**Client Sample ID: Lab Control Sample** Lab Sample ID: LCS 570-189870/2-A **Matrix: Solid Prep Type: Silica Gel Cleanup Prep Batch: 189870 Analysis Batch: 189785** LCS LCS Spike %Rec.

Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 433.7 mg/Kg 108 76 - 126

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 112 50 - 150

**Eurofins Calscience LLC** 

10/29/2021

**Prep Type: Silica Gel Cleanup** 

**Prep Batch: 189781** 

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Silica Gel Cleanup** 

Project/Site: ExxonMobil ADC/0314476040

Surrogate

n-Octacosane (Surr)

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-189870/6-A Matrix: Solid Analysis Batch: 189785				Clien			e: Silica	itrol Sample Gel Cleanup itch: 189870
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	400	443.1		mg/Kg		111	71 - 139	
ICS ICS								

Octacosane (Surr)	112	Qualifier	50 - 150	
•	189870/3-A			Client Sample ID: Lab C
	Octacosane (Surr)	b Sample ID: LCSD 570-189870/3-A	b Sample ID: LCSD 570-189870/3-A	b Sample ID: LCSD 570-189870/3-A

	Lab Sample ID: LCSD 570- Matrix: Solid Analysis Batch: 189785			(	Client Sa	•		Control : be: Silica Prep Ba	Gel Cle	anup		
١				Spike	LCSD	LCSD				%Rec.		RPD
	Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	TPH as Diesel (C10-C28)			400	450.8		mg/Kg		113	76 - 126	4	20
		LCSD	LCSD									
	Surrogate	%Recovery	Qualifier	Limits								
	n-Octacosane (Surr)	112		50 - 150								

Lab Sample ID: LCSD 570-1 Matrix: Solid	89870/7-A			(	Client Sai					
Analysis Batch: 189785								Prep Ba	atch: 18	<b>89870</b>
		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)		400	426.2		mg/Kg		107	71 - 139	4	20
	LCSD LCSD									
	Matrix: Solid Analysis Batch: 189785 Analyte	Analysis Batch: 189785  Analyte TPH as Motor Oil (C17-C44)	Matrix: Solid Analysis Batch: 189785  Spike Analyte Added TPH as Motor Oil (C17-C44)  400	Matrix: Solid           Analysis Batch: 189785         Spike         LCSD           Analyte         Added         Result           TPH as Motor Oil (C17-C44)         400         426.2	Matrix: Solid Analysis Batch: 189785  Spike LCSD LCSD Analyte Added Result Qualifier  TPH as Motor Oil (C17-C44) 400 426.2	Matrix: Solid           Analysis Batch: 189785         Spike         LCSD         LCSD           Analyte         Added         Result         Qualifier         Unit           TPH as Motor Oil (C17-C44)         400         426.2         mg/Kg	Matrix: Solid         P           Analysis Batch: 189785         Spike         LCSD         LCSD           Analyte         Added         Result         Qualifier         Unit         D           TPH as Motor Oil (C17-C44)         400         426.2         mg/Kg	Matrix: Solid         Prep Type           Analysis Batch: 189785         Spike LCSD LCSD           Analyte         Added         Result Qualifier         Unit mg/Kg         D %Rec mg/Kg           TPH as Motor Oil (C17-C44)         400         426.2         mg/Kg         107	Matrix: Solid         Prep Type: Silica           Analysis Batch: 189785         Spike         LCSD LCSD         Prep Bate           Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits           TPH as Motor Oil (C17-C44)         400         426.2         mg/Kg         107         71 - 139	Matrix: Solid         Prep Type: Silica Gel Cla           Analysis Batch: 189785         Spike         LCSD LCSD         Prep Batch: 18           Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits         RPD           TPH as Motor Oil (C17-C44)         400         426.2         mg/Kg         107         71 - 139         4

n-Octacosane (Surr)	114	50 - 150	
Lab Sample ID: 570-73077 Matrix: Solid Analysis Batch: 189785	'-A-2-A MS		Client Sample ID: Matrix Spike Prep Type: Silica Gel Cleanup Prep Batch: 189870

Limits

Sample Sample Spike MS MS %Rec.

50 - 150

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	ND		492	541.4		mg/Kg	<u></u>	110	37 - 175	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

Lab Sample ID: 570-73077-A-2-B MSD Matrix: Solid Analysis Batch: 189785								
						Prep Ba	tch: 18	39870
nple Spike	MSD	MSD				%Rec.		RPD
alifier Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
480	542.9		mg/Kg	<b>#</b>	113	37 - 175	0	20
	ifier Added	ifier Added Result	ifier Added Result Qualifier	ple Spike MSD MSD lifier Added Result Qualifier Unit	Pr ple Spike MSD MSD lifier Added Result Qualifier Unit D	Prep Typ ple Spike MSD MSD lifier Added Result Qualifier Unit D %Rec	Prep Type: Silica ( Prep Ba  ple Spike MSD MSD %Rec.  lifier Added Result Qualifier Unit D %Rec Limits	ifier Added Result Qualifier Unit D %Rec Limits RPD

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	111		50 - 150

**%Recovery Qualifier** 

Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Lab Sample ID: 570-73077-A-2-C MS

**Matrix: Solid** 

Analyte

Client: Cardno, Inc

**Analysis Batch: 189785** 

TPH as Motor Oil (C17-C44)

Client Sample ID: Matrix Spike **Prep Type: Silica Gel Cleanup** 

**Prep Batch: 189870** 

%Rec. Limits

Result Qualifier Result Qualifier Added Unit %Rec ND 496 516.7 mg/Kg 104 71 - 174

MS MS

MS MS

Sample Sample

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 114 50 - 150

**Client Sample ID: Matrix Spike Duplicate** Lab Sample ID: 570-73077-A-2-D MSD

**Matrix: Solid** 

**Analysis Batch: 189785** 

Sample Sample Spike MSD MSD

Prep Type: Silica Gel Cleanup

**Prep Batch: 189870** 

%Rec. RPD Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) ND 493 535.8 mg/Kg 109 71 - 174 4

MSD MSD

Surrogate %Recovery Qualifier Limits 50 - 150 n-Octacosane (Surr) 110

**Client Sample ID: Method Blank** Lab Sample ID: MB 570-189871/1-A **Matrix: Solid** 

**Analysis Batch: 189859** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 189871** 

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 5.0 mg/Kg 10/27/21 19:30 10/27/21 22:16 10/27/21 19:30 10/27/21 22:16 TPH as Motor Oil Range ND 5.0 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 111 50 - 150 10/27/21 19:30 10/27/21 22:16

Lab Sample ID: LCS 570-189871/2-A

**Matrix: Solid** 

Analysis Batch: 189859

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup **Prep Batch: 189871** 

%Rec.

LCS LCS Spike Added Limits Result Qualifier Unit %Rec 400 458.3 115 76 - 126 TPH as Diesel (C10-C28) mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 102 50 - 150

Lab Sample ID: LCS 570-189871/6-A **Matrix: Solid** 

Analysis Batch: 189859

Prep Type: Silica Gel Cleanup LCS LCS Spike

**Prep Batch: 189871** 

%Rec.

**Client Sample ID: Lab Control Sample** 

Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 400 398.7 mg/Kg 100 71 - 139

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 100 50 - 150

**Eurofins Calscience LLC** 

10/29/2021

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: 570-73066-11 MS

n-Octacosane (Surr)

n-Octacosane (Surr)

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

100

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 189859	-189871/3-A			(	Client Sa			Control : be: Silica Prep Ba	Gel Cle	anup
		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)		400	433.4		mg/Kg		108	76 - 126	6	20
	LCSD LCSD									
Surrogate	%Recovery Qualify	ier Limits								

Lab Sample ID: LCSD 570-189871/7-A Matrix: Solid Analysis Batch: 189859					(	Client Sai			Control : be: Silica   Prep Ba	Gel Čle	anup
-			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)			400	380.7		mg/Kg		95	71 - 139	5	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	100		50 - 150								

50 - 150

Lab Sample ID: 570-7306	b Sample ID: 570-73066-11 MS										
Matrix: Solid							P	rep Typ	e: Silica G	el Cleanup	
Analysis Batch: 189859									Prep Bate	ch: 189871	
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
TPH as Diesel (C10-C28)	19		518	543.7		mg/Kg	<del>*</del>	101	37 - 175		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	102		50 - 150								

Matrix: Solid Analysis Batch: 189859							P	тер Тур		Gel Cleanup atch: 189871
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	ND		530	439.1		mg/Kg	— <u>→</u>	80	71 - 174	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

50 - 150

Lab Sample ID: 570-73066-11 MSD							Client Sample ID: S-7.5-J1 Prep Type: Silica Gel Cleanup				
Matrix: Solid											
Analysis Batch: 189859							Prep Batch: 189871				
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	19		506	507.8		mg/Kg	<del>-</del>	97	37 - 175	7	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	96		50 - 150								

Client Sample ID: S-7.5-J1

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### **QC Sample Results**

Client: Cardno, Inc Job ID: 570-73066-1

MSD MSD

374.5

Result Qualifier Unit

Project/Site: ExxonMobil ADC/0314476040

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-73066-11 MSD

**Matrix: Solid** 

Analyte

Surrogate

n-Octacosane (Surr)

**Analysis Batch: 189859** 

TPH as Motor Oil (C17-C44)

Client Sample ID: S-7.5-J1 Prep Type: Silica Gel Cleanup

71 - 174

₩

76

mg/Kg

16

	Prep Ba	atch: 18	39871
	%Rec.		RPD
%Rec	Limits	RPD	Limit

MSD MSD

ND

88

Sample Sample

Result Qualifier

%Recovery Qualifier

Limits 50 - 150

Spike

Added

478

### **QC Association Summary**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

### **GC VOA**

### **Prep Batch: 187610**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-1	S-2.5-H1	Total/NA	Solid	5035	
570-73066-2	S-5-H1	Total/NA	Solid	5035	
570-73066-4	S-10-H1	Total/NA	Solid	5035	
570-73066-5	S-2.5-I1	Total/NA	Solid	5035	
570-73066-7	S-7.5-I1	Total/NA	Solid	5035	
570-73066-8	S-10-I1	Total/NA	Solid	5035	
570-73066-9	S-2.5-J1	Total/NA	Solid	5035	
570-73066-11	S-7.5-J1	Total/NA	Solid	5035	
570-73066-14	S-7.5-K1	Total/NA	Solid	5035	
570-73066-17	S-7.5-L2	Total/NA	Solid	5035	
570-73066-18	S-2.5-M1	Total/NA	Solid	5035	
570-73066-22	S-15-B9A	Total/NA	Solid	5035	
570-73066-25	S-7.5-M3	Total/NA	Solid	5035	
570-73066-26	S-10-M3	Total/NA	Solid	5035	
570-73066-30	S-10-N4	Total/NA	Solid	5035	

### **Prep Batch: 187611**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-3	S-7.5-H1	Total/NA	Solid	5035	
570-73066-6	S-5-I1	Total/NA	Solid	5035	
570-73066-10	S-5-J1	Total/NA	Solid	5035	
570-73066-12	S-2.5-K1	Total/NA	Solid	5035	
570-73066-13	S-5-K1	Total/NA	Solid	5035	
570-73066-15	S-2.5-L2	Total/NA	Solid	5035	
570-73066-16	S-5-L2	Total/NA	Solid	5035	
570-73066-19	S-5-M1	Total/NA	Solid	5035	
570-73066-20	S-7.5-M1	Total/NA	Solid	5035	
570-73066-23	S-2.5-M3	Total/NA	Solid	5035	
570-73066-24	S-5-M3	Total/NA	Solid	5035	
570-73066-27	S-2.5-N4	Total/NA	Solid	5035	
570-73066-28	S-5-N4	Total/NA	Solid	5035	
570-73066-29	S-7.5-N4	Total/NA	Solid	5035	

### **Analysis Batch: 187627**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-1	S-2.5-H1	Total/NA	Solid	NWTPH-Gx	187610
570-73066-2	S-5-H1	Total/NA	Solid	NWTPH-Gx	187610
570-73066-4	S-10-H1	Total/NA	Solid	NWTPH-Gx	187610
570-73066-5	S-2.5-I1	Total/NA	Solid	NWTPH-Gx	187610
570-73066-7	S-7.5-I1	Total/NA	Solid	NWTPH-Gx	187610
570-73066-8	S-10-l1	Total/NA	Solid	NWTPH-Gx	187610
570-73066-9	S-2.5-J1	Total/NA	Solid	NWTPH-Gx	187610
570-73066-14	S-7.5-K1	Total/NA	Solid	NWTPH-Gx	187610
570-73066-18	S-2.5-M1	Total/NA	Solid	NWTPH-Gx	187610
570-73066-25	S-7.5-M3	Total/NA	Solid	NWTPH-Gx	187610
570-73066-26	S-10-M3	Total/NA	Solid	NWTPH-Gx	187610
570-73066-30	S-10-N4	Total/NA	Solid	NWTPH-Gx	187610
MB 570-187627/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-187627/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-187627/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

### **GC VOA**

### Analysis Batch: 187662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-21	Trip Blank	Total/NA	Water	NWTPH-Gx	
MB 570-187662/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 570-187662/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 570-187662/4	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MS	Matrix Spike	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	NWTPH-Gx	

### **Analysis Batch: 188035**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-11	S-7.5-J1	Total/NA	Solid	NWTPH-Gx	187610
570-73066-12	S-2.5-K1	Total/NA	Solid	NWTPH-Gx	187611
570-73066-13	S-5-K1	Total/NA	Solid	NWTPH-Gx	187611
570-73066-20	S-7.5-M1	Total/NA	Solid	NWTPH-Gx	187611
570-73066-22	S-15-B9A	Total/NA	Solid	NWTPH-Gx	187610
570-73066-28	S-5-N4	Total/NA	Solid	NWTPH-Gx	187611
570-73066-29	S-7.5-N4	Total/NA	Solid	NWTPH-Gx	187611
MB 570-188035/37	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-188035/38	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188035/35	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188035/36	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 188043**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-10	S-5-J1	Total/NA	Solid	NWTPH-Gx	187611
570-73066-16	S-5-L2	Total/NA	Solid	NWTPH-Gx	187611
570-73066-19	S-5-M1	Total/NA	Solid	NWTPH-Gx	187611
570-73066-23	S-2.5-M3	Total/NA	Solid	NWTPH-Gx	187611
570-73066-24	S-5-M3	Total/NA	Solid	NWTPH-Gx	187611
570-73066-27	S-2.5-N4	Total/NA	Solid	NWTPH-Gx	187611
MB 570-188043/36	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188043/33	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188043/34	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **Analysis Batch: 189371**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-3	S-7.5-H1	Total/NA	Solid	NWTPH-Gx	187611
570-73066-6	S-5-I1	Total/NA	Solid	NWTPH-Gx	187611
570-73066-15	S-2.5-L2	Total/NA	Solid	NWTPH-Gx	187611
570-73066-17	S-7.5-L2	Total/NA	Solid	NWTPH-Gx	187610
MB 570-189371/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-189371/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-189371/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-189371/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### **GC Semi VOA**

#### **Prep Batch: 189781**

<b>Lab Sample ID</b> 570-73066-1	Client Sample ID S-2.5-H1	Prep Type Silica Gel Cleanup	Matrix Solid	Method 3550C SGC	Prep Batch
570-73066-2	S-5-H1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-3 - DL	S-7.5-H1	Silica Gel Cleanup	Solid	3550C SGC	

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11

12

IJ

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### **QC Association Summary**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

### GC Semi VOA (Continued)

### Prep Batch: 189781 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-3	S-7.5-H1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-4	S-10-H1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-5	S-2.5-I1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-6	S-5-I1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-7	S-7.5-I1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-8	S-10-I1	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-189781/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189781/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189781/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189781/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189781/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-A-23-A MS	Matrix Spike	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-A-23-B MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-A-23-C MS	Matrix Spike	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-A-23-D MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	3550C SGC	

### **Analysis Batch: 189785**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-13	S-5-K1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-23 - DL	S-2.5-M3	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-24 - DL	S-5-M3	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-30	S-10-N4	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
MB 570-189870/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
LCS 570-189870/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
LCS 570-189870/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
LCSD 570-189870/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
LCSD 570-189870/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-A-2-A MS	Matrix Spike	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-A-2-B MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-A-2-C MS	Matrix Spike	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-A-2-D MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	NWTPH-Dx	189870

### **Analysis Batch: 189859**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-1	S-2.5-H1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73066-2	S-5-H1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73066-3	S-7.5-H1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73066-3 - DL	S-7.5-H1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73066-4	S-10-H1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73066-5	S-2.5-I1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73066-6	S-5-I1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73066-7	S-7.5-I1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73066-8	S-10-I1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73066-9	S-2.5-J1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-10	S-5-J1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-11	S-7.5-J1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-12	S-2.5-K1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-13	S-5-K1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-14	S-7.5-K1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-15	S-2.5-L2	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-16	S-5-L2	Silica Gel Cleanup	Solid	NWTPH-Dx	189871

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Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

### GC Semi VOA (Continued)

### **Analysis Batch: 189859 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-17	S-7.5-L2	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-18	S-2.5-M1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-19	S-5-M1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-20	S-7.5-M1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-22	S-15-B9A	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-23	S-2.5-M3	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-24	S-5-M3	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-25	S-7.5-M3	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-26	S-10-M3	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-27	S-2.5-N4	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-28	S-5-N4	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-28 - DL	S-5-N4	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-29 - RA	S-7.5-N4	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
MB 570-189781/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
MB 570-189871/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
LCS 570-189781/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
LCS 570-189781/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
LCS 570-189871/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
LCS 570-189871/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
LCSD 570-189781/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
LCSD 570-189781/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
LCSD 570-189871/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
LCSD 570-189871/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-11 MS	S-7.5-J1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-11 MS	S-7.5-J1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-11 MSD	S-7.5-J1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73066-11 MSD	S-7.5-J1	Silica Gel Cleanup	Solid	NWTPH-Dx	189871
570-73067-A-23-A MS	Matrix Spike	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-A-23-B MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-A-23-C MS	Matrix Spike	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-A-23-D MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	NWTPH-Dx	189781

#### **Prep Batch: 189870**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-30	S-10-N4	Silica Gel Cleanup	Solid	3550C SGC	-
MB 570-189870/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189870/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189870/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189870/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189870/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-A-2-A MS	Matrix Spike	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-A-2-B MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-A-2-C MS	Matrix Spike	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-A-2-D MSD	Matrix Spike Duplicate	Silica Gel Cleanup	Solid	3550C SGC	

### **Prep Batch: 189871**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-9	S-2.5-J1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-10	S-5-J1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-11	S-7.5-J1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-12	S-2.5-K1	Silica Gel Cleanup	Solid	3550C SGC	

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### **QC Association Summary**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

### GC Semi VOA (Continued)

### Prep Batch: 189871 (Continued)

570-73066-11 MSD

S-7.5-J1

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-13	S-5-K1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-14	S-7.5-K1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-15	S-2.5-L2	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-16	S-5-L2	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-17	S-7.5-L2	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-18	S-2.5-M1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-19	S-5-M1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-20	S-7.5-M1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-22	S-15-B9A	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-23 - DL	S-2.5-M3	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-23	S-2.5-M3	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-24 - DL	S-5-M3	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-24	S-5-M3	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-25	S-7.5-M3	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-26	S-10-M3	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-27	S-2.5-N4	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-28	S-5-N4	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-28 - DL	S-5-N4	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-29 - RA	S-7.5-N4	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-189871/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189871/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189871/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189871/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189871/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-11 MS	S-7.5-J1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-11 MS	S-7.5-J1	Silica Gel Cleanup	Solid	3550C SGC	
570-73066-11 MSD	S-7.5-J1	Silica Gel Cleanup	Solid	3550C SGC	

Silica Gel Cleanup

3550C SGC

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-H1

Client: Cardno, Inc

Date Collected: 10/13/21 14:05 Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.7 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187627	10/19/21 19:57	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.55 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189859	10/28/21 03:15	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-H1 Lab Sample ID: 570-73066-2 **Matrix: Solid** 

Date Collected: 10/13/21 14:10

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.845 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187627	10/19/21 20:21	P1R	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.45 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189859	10/28/21 03:35	A1W	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-7.5-H1 Lab Sample ID: 570-73066-3 **Matrix: Solid** 

Date Collected: 10/13/21 14:15 Date Received: 10/15/21 08:19

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 5035 7.025 g 5 mL 187611 10/19/21 13:20 YZL3 ECL 2 Prep Total/NA Analysis **NWTPH-Gx** 50 5 mL 5 mL 189371 10/26/21 15:23 P1R ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 10/27/21 14:52 N5Y3 ECL 1 Prep 5.59 g 10 mL 189781 Silica Gel Cleanup Analysis NWTPH-Dx 189859 10/28/21 03:56 A1W ECL 1 1 Instrument ID: GC50 3550C SGC Silica Gel Cleanup Prep DL 5.59 g 10 mL 189781 10/27/21 14:52 N5Y3 ECL 1 Silica Gel Cleanup 189859 10/28/21 17:05 A1W Analysis NWTPH-Dx DL 10 ECL 1 Instrument ID: GC50

Client Sample ID: S-10-H1 Lab Sample ID: 570-73066-4

Date Collected: 10/13/21 14:20 Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		Lab
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	
Total/NA	Prep	5035			4.075 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187627	10/19/21 20:45	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			6.21 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx		1			189859	10/28/21 04:17	A1W	ECL 1

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-I1

Date Collected: 10/13/21 14:25 Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.876 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187627	10/19/21 21:10	P1R	ECL 2
	Instrumer	nt ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.82 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 04:37	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-I1 Lab Sample ID: 570-73066-6 Date Collected: 10/13/21 14:30 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA Prep 5035 6.162 g 5 mL 187611 10/19/21 13:20 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 50 5 mL 5 mL 189371 10/26/21 15:47 P1R ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 10.21 g 10 mL 189781 10/27/21 14:52 N5Y3 ECL 1 Silica Gel Cleanup **NWTPH-Dx** 189859 10/28/21 04:56 A1W ECL 1 Analysis 5

Client Sample ID: S-7.5-I1 Lab Sample ID: 570-73066-7 Date Collected: 10/13/21 14:35 **Matrix: Solid** 

Date Received: 10/15/21 08:19

Instrument ID: GC50

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 3.785 g 5 g 187610 10/19/21 13:20 YZL3 ECL 2 Prep Total/NA Analysis **NWTPH-Gx** 5 mL 187627 10/19/21 21:34 P1R ECL 2 5 g Instrument ID: GC53 Silica Gel Cleanup 3550C SGC 4.21 g 10/27/21 14:52 N5Y3 ECL 1 Prep 10 mL 189781 Silica Gel Cleanup Analysis NWTPH-Dx 189859 10/28/21 05:16 A1W ECL 1 1 Instrument ID: GC50

Client Sample ID: S-10-I1 Lab Sample ID: 570-73066-8 Date Collected: 10/13/21 14:40 **Matrix: Solid** 

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		Lab
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	
Total/NA	Prep	5035			4.682 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187627	10/19/21 21:58	P1R	ECL 2
	Instrumer	nt ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.58 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 05:36	A1W	ECL 1
	Instrumer	nt ID: GC50								

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Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-J1

Date Collected: 10/13/21 14:45 Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-9

Lab Sample ID: 570-73066-11

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.721 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187627	10/19/21 22:22	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.67 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189859	10/28/21 08:38	A1W	ECL 1
	Instrumer	nt ID: GC50								

Lab Sample ID: 570-73066-10 Client Sample ID: S-5-J1 Date Collected: 10/13/21 14:50 **Matrix: Solid** 

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.422 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	188043	10/21/21 13:59	A9VE	ECL 2
	Instrumen	it ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			9.77 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189859	10/28/21 09:38	A1W	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-7.5-J1 Date Collected: 10/13/21 14:55

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		Lab
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	
Total/NA	Prep	5035			6.672 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188035	10/21/21 03:53	A9VE	ECL 2
	Instrumer	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 09:58	A1W	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-2.5-K1 Lab Sample ID: 570-73066-12 **Matrix: Solid** 

Date Collected: 10/13/21 15:00 Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.069 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		200	5 mL	5 mL	188035	10/21/21 06:41	A9VE	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189859	10/28/21 10:18	A1W	ECL 1
	Instrumen	t ID: GC50								

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-5-K1

Date Collected: 10/13/21 15:05

Lab Sample ID: 570-73066-13

**Matrix: Solid** 

Matrix: Solid

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.552 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		250	5 mL	5 mL	188035	10/21/21 07:05	A9VE	ECL 2
Silica Gel Cleanup Silica Gel Cleanup	Prep Analysis Instrumer	3550C SGC NWTPH-Dx at ID: GC48		10	10.14 g	10 mL	189871 189785	10/27/21 19:30 10/28/21 14:59		ECL 1 ECL 1
Silica Gel Cleanup Silica Gel Cleanup	Prep Analysis Instrumer	3550C SGC NWTPH-Dx at ID: GC50		1	10.14 g	10 mL	189871 189859	10/27/21 19:30 10/28/21 10:37		ECL 1 ECL 1

Client Sample ID: S-7.5-K1 Lab Sample ID: 570-73066-14

Date Collected: 10/13/21 15:10

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.451 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187627	10/19/21 22:47	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.67 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 10:56	A1W	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-2.5-L2 Lab Sample ID: 570-73066-15 Date Collected: 10/13/21 15:15 **Matrix: Solid** 

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.769 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	189371	10/26/21 16:10	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.94 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189859	10/28/21 11:16	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-L2 Lab Sample ID: 570-73066-16

Date Collected: 10/13/21 15:20 Date Received: 10/15/21 08:19

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount **Amount** Number or Analyzed Analyst Lab Total/NA Prep 5035 5.992 g 5 mL 187611 10/19/21 13:20 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 500 5 mL 5 mL 188043 10/21/21 13:11 A9VE ECL 2 Instrument ID: GC1 Silica Gel Cleanup 3550C SGC 9.67 g 10 mL 189871 10/27/21 19:30 N5Y3 ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 10 189859 10/28/21 11:36 A1W ECL₁ Instrument ID: GC50

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**Matrix: Solid** 

Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-L2

Date Collected: 10/13/21 15:25 Date Received: 10/15/21 08:19

Client: Cardno, Inc

Lab Sample ID: 570-73066-17

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.145 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	189371	10/26/21 15:00	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.62 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 11:56	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-M1

Date Collected: 10/13/21 15:30

Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-18 Matrix: Solid

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 7.078 g 5 g 187610 10/19/21 13:20 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 187627 10/20/21 00:47 P1R ECL 2 Instrument ID: GC53 Silica Gel Cleanup 3550C SGC 9.91 g 10 mL 189871 10/27/21 19:30 N5Y3 ECL 1 Silica Gel Cleanup NWTPH-Dx 189859 10/28/21 12:15 A1W ECL 1 Analysis 5 Instrument ID: GC50

Client Sample ID: S-5-M1

Date Collected: 10/13/21 15:35

Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-19

Lab Sample ID: 570-73066-20

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.366 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		2500	5 mL	5 mL	188043	10/21/21 14:23	A9VE	ECL 2
	Instrumer	nt ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			4.98 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189859	10/28/21 12:35	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-7.5-M1

Date Collected: 10/13/21 15:40

Date Received: 10/15/21 08:19

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.941 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	188035	10/21/21 05:53	A9VE	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.49 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 12:55	A1W	ECL 1
	Instrumen	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

**Client Sample ID: Trip Blank** 

Date Collected: 10/14/21 00:00 Date Received: 10/15/21 08:19 Lab Sample ID: 570-73066-21

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/19/21 23:59	P1R	ECL 2
	Instrumer	t ID: GC25								

Lab Sample ID: 570-73066-22 Client Sample ID: S-15-B9A

Date Collected: 10/14/21 07:55

Matrix: Solid

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.62 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	188035	10/21/21 12:37	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			4.53 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 13:15	A1W	ECL 1
	Instrumer	t ID: GC50								

**Client Sample ID: S-2.5-M3** Lab Sample ID: 570-73066-23

Date Collected: 10/14/21 08:40

Matrix: Solid

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.013 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		2500	5 mL	5 mL	188043	10/21/21 14:47	A9VE	ECL 2
	Instrumer	nt ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.30 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			189785	10/28/21 15:19	N1A	ECL 1
	Instrumer	nt ID: GC48								
Silica Gel Cleanup	Prep	3550C SGC			10.30 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189859	10/28/21 13:34	A1W	ECL 1
	Instrumer	nt ID: GC50								

Lab Sample ID: 570-73066-24 **Client Sample ID: S-5-M3** 

Date Collected: 10/14/21 08:45 Date Received: 10/15/21 08:19

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.815 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC1		500	5 mL	5 mL	188043	10/21/21 13:35	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC	DL		10.22 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx nt ID: GC48	DL	10			189785	10/28/21 15:40	N1A	ECL 1
Silica Gel Cleanup	Prep	3550C SGC			10.22 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx at ID: GC50		1	-		189859	10/28/21 13:53	A1W	ECL 1

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Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

**Client Sample ID: S-7.5-M3** 

Client: Cardno, Inc

Date Collected: 10/14/21 08:50 Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-25

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.37 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187627	10/20/21 01:36	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			5.58 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 14:13	A1W	ECL 1
	Instrumer	it ID: GC50								

**Client Sample ID: S-10-M3** 

Date Collected: 10/14/21 08:55

Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-26

Lab Sample ID: 570-73066-27

Lab Sample ID: 570-73066-28

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.683 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187627	10/20/21 02:00	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			7.34 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx at ID: GC50		1			189859	10/28/21 14:32	A1W	ECL 1

Client Sample ID: S-2.5-N4

Date Collected: 10/14/21 09:00

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.584 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		2000	5 mL	5 mL	188043	10/21/21 15:10	A9VE	ECL 2
	Instrumer	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			6.74 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189859	10/28/21 14:52	A1W	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-5-N4

Date Collected: 10/14/21 09:09

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.148 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		200	5 mL	5 mL	188035	10/21/21 10:16	A9VE	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.62 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 15:11	A1W	ECL 1
	Instrumen	t ID: GC50								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.62 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			189859	10/28/21 18:06	A1W	ECL 1
	Instrumen	t ID: GC50								

**Eurofins Calscience LLC** 

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Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-N4 Lab Sample ID: 570-73066-29

Date Collected: 10/14/21 09:10

Date Received: 10/15/21 08:19

Matrix: Solid

Batch Batch Dil Initial Batch Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount Amount** Analyst Lab 5.073 g 10/19/21 13:20 Total/NA 5035 187611 ECL 2 Prep 5 mL YZL3 Total/NA NWTPH-Gx 188035 10/21/21 09:05 A9VE ECL 2 Analysis 20 5 mL 5 mL Instrument ID: GC53 Silica Gel Cleanup Prep 3550C SGC RA 7.68 g 10 mL 189871 10/27/21 19:30 N5Y3 ECL 1 Silica Gel Cleanup Analysis **NWTPH-Dx** RA 1 189859 10/28/21 18:25 A1W ECL 1 Instrument ID: GC50

Client Sample ID: S-10-N4

Date Collected: 10/14/21 09:15

Lab Sample ID: 570-73066-30

Matrix: Solid

Date Received: 10/15/21 08:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.401 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187627	10/20/21 02:24	P1R	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.99 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/28/21 11:10	N1A	ECL 1
	Instrumen	t ID: GC48								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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### **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

### **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	<b>Identification Number</b>	<b>Expiration Date</b>
Washington	State	C916-18	10-12-22

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### **Method Summary**

Client: Cardno, Inc Job ID: 570-73066-1

Project/Site: ExxonMobil ADC/0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2
5035	Closed System Purge and Trap	SW846	ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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10/29/2021

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	TEL. (714) 896	TEL. (714) 896-5494 FAX: (714) 894-7601	end Perud	retail Pr	Retail Project (MRN) Major Project (AFE)		-		PAGE: 2 OF 2	***************************************
ExxonMobil Engr	Jennifer Sedlachek	chek		Project A	lame	serberesserverreegegrees	Exxoni	ExxonMobil ADC / 0314476040		
LABORATORY CLIENT Cardno					0	GLOBAL ID #/ COELT LOG CODE	OG CODE		77770000	
ADDRESS.	ADDRESS: 309 South Cloudridge Street Heit A12								r O us 1447 8040; Agreement# Azsu4413	
Seattle WA 98108	108					Robert Thompson	mpson		LAB USE ONLY	
TEL. 206-510-5855	5855 FAX N/A	robert.thompson	osdmou	n@cardno.com		SAMPLER(S): Paul Considine	Prevo	SAMPLER(S): Paul Prevou, Cameron Penner-Ash, John Considine	Octan recell?	
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SPECIAL INSTRUCTIONS: Required EIM and Cardin Include % Moisture in rep	SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Include % Moisture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thompson@cardno.com	p - 0.5 grams. Group results by sa ort to: laina.cole@cardno.com, roi	mple, not sert.thomp	y analysis π son@cardno	ethod.	DH as Dies				
All units in mg/kg. Report to: laina.cole@cal	All units in mg/kg. Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com	io.com, and cameron.penner-ash@	eardno.co	Ę		ΙΤ ×έ				
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N-3.5-7.		10/14/2021	9/6	S	4	×		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	z un-preserved glass jar	
W-10-N4	12-10-X4	Section 197	5/60	S	4	×××		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	z un-preserved glass jar	***************************************
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# COPY

570-73066 Waybill

Part # 156297-405-19908/92

BILL RECIPIENT

SEATTLE, WA 38108
UNITED STATES US
TO CALCSIENCE ENVIRONMENTAL LAB

ORIGIN ID:BBEA (817) 965-6081 PAUL PREVOU CARDNO 309 S CLOVERDALE ST STE A13

Recipient's Name Please print

GARDEN GROVE CA 92841

7440 LINCOLN WAY

Phone Number

FRI - 15 OCT 4:30F

STANDARD OVERNIGHT 92 APVA TRK# 8158 1726 1065

92841 CA-US SNA

Signature. B

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Client: Cardno, Inc

List Source: Eurofins Calscience LLC

Job Number: 570-73066-1

Login Number: 73066

List Number: 1

Creator: Ramos, Maribel

Creator: Ramos, Maribei		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

## **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-73067-1

Client Project/Site: ExxonMobil ADC/0314476040

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Suria

Authorized for release by: 10/29/2021 10:51:17 AM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS .....

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Cardno, Inc Project/Site: ExxonMobil ADC/0314476040 Laboratory Job ID: 570-73067-1

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### **Sample Summary**

Job ID: 570-73067-1 Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

570-73067-34

S-7.5-O1

570-73067-1         S-2.5-M9         Solid         10/14/21 09:20         10/15/21 10:10           570-73067-2         S-5-M9         Solid         10/14/21 09:30         10/15/21 10:10           570-73067-3         S-7.5-M9         Solid         10/14/21 09:30         10/15/21 10:10           570-73067-4         S-10-M9         Solid         10/14/21 09:40         10/15/21 10:10           570-73067-5         S-12.5-M9         Solid         10/14/21 09:45         10/15/21 10:10           570-73067-6         S-15-M9         Solid         10/14/21 09:55         10/15/21 10:10           570-73067-8         S-2.5-L8         Solid         10/14/21 09:55         10/15/21 10:10           570-73067-8         S-2.5-L8         Solid         10/14/21 09:55         10/15/21 10:10           570-73067-9         S-5-L8         Solid         10/14/21 10:05         10/15/21 10:10           570-73067-10         S-7.5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-12         S-12.5-L8         Solid         10/14/21 10:10         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:40<	Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-73067-3         S-7.5-M9         Solid         10/14/21 09:30         10/15/21 10:10           570-73067-4         S-10-M9         Solid         10/14/21 09:35         10/15/21 10:10           570-73067-5         S-12.5-M9         Solid         10/14/21 09:40         10/15/21 10:10           570-73067-6         S-15-M9         Solid         10/14/21 09:45         10/15/21 10:10           570-73067-7         S-17.5-M9         Solid         10/14/21 09:50         10/15/21 10:10           570-73067-8         S-2.5-L8         Solid         10/14/21 09:55         10/15/21 10:10           570-73067-9         S-5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-10         S-7.5-L8         Solid         10/14/21 10:05         10/15/21 10:10           570-73067-12         S-12.5-L8         Solid         10/14/21 10:05         10/15/21 10:10           570-73067-13         S-20-C0         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21	570-73067-1	S-2.5-M9	Solid	10/14/21 09:20	10/15/21 10:10
570-73067-4         S-10-M9         Solid         10/14/21 09:35         10/15/21 10:10           570-73067-5         S-12.5-M9         Solid         10/14/21 09:40         10/15/21 10:10           570-73067-6         S-15-M9         Solid         10/14/21 09:55         10/15/21 10:10           570-73067-7         S-17.5-M9         Solid         10/14/21 09:55         10/15/21 10:10           570-73067-8         S-2.5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-9         S-5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-10         S-7.5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-11         S-10-L8         Solid         10/14/21 10:10         10/15/21 10:10           570-73067-12         S-12.5-L8         Solid         10/14/21 10:15         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10	570-73067-2	S-5-M9	Solid	10/14/21 09:25	10/15/21 10:10
570-73067-5         S-12.5-M9         Solid         10/14/21 09:40         10/15/21 10:10           570-73067-6         S-15-M9         Solid         10/14/21 09:45         10/15/21 10:10           570-73067-7         S-17.5-M9         Solid         10/14/21 09:50         10/15/21 10:10           570-73067-8         S-2.5-L8         Solid         10/14/21 09:55         10/15/21 10:10           570-73067-9         S-5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-10         S-7.5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-11         S-10-L8         Solid         10/14/21 10:10         10/15/21 10:10           570-73067-12         S-12.5-L8         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 10	570-73067-3	S-7.5-M9	Solid	10/14/21 09:30	10/15/21 10:10
570-73067-6         S-15-M9         Solid         10/14/21 09:45         10/15/21 10:10           570-73067-7         S-17.5-M9         Solid         10/14/21 09:50         10/15/21 10:10           570-73067-8         S-2.5-L8         Solid         10/14/21 09:55         10/15/21 10:10           570-73067-9         S-5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-10         S-7.5-L8         Solid         10/14/21 10:05         10/15/21 10:10           570-73067-11         S-10-L8         Solid         10/14/21 10:10         10/15/21 10:10           570-73067-12         S-12.5-L8         Solid         10/14/21 10:15         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 1	570-73067-4	S-10-M9	Solid	10/14/21 09:35	10/15/21 10:10
570-73067-7         S-17.5-M9         Solid         10/14/21 09:50         10/15/21 10:10           570-73067-8         S-2.5-L8         Solid         10/14/21 09:55         10/15/21 10:10           570-73067-9         S-5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-10         S-7.5-L8         Solid         10/14/21 10:05         10/15/21 10:10           570-73067-11         S-10-L8         Solid         10/14/21 10:10         10/15/21 10:10           570-73067-12         S-12.5-L8         Solid         10/14/21 10:15         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/	570-73067-5	S-12.5-M9	Solid	10/14/21 09:40	10/15/21 10:10
570-73067-8         S-2.5-L8         Solid         10/14/21 09:55         10/15/21 10:10           570-73067-9         S-5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-10         S-7.5-L8         Solid         10/14/21 10:05         10/15/21 10:10           570-73067-11         S-10-L8         Solid         10/14/21 10:10         10/15/21 10:10           570-73067-12         S-12.5-L8         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:55         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 10:55         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21	570-73067-6	S-15-M9	Solid	10/14/21 09:45	10/15/21 10:10
570-73067-9         S-5-L8         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-10         S-7.5-L8         Solid         10/14/21 10:05         10/15/21 10:10           570-73067-11         S-10-L8         Solid         10/14/21 10:10         10/15/21 10:10           570-73067-12         S-12.5-L8         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 10:55         10/15/21 10:10           570-73067-18         S-10-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14	570-73067-7	S-17.5-M9	Solid	10/14/21 09:50	10/15/21 10:10
570-73067-10         S-7.5-L8         Solid         10/14/21 10:05         10/15/21 10:10           570-73067-11         S-10-L8         Solid         10/14/21 10:10         10/15/21 10:10           570-73067-12         S-12.5-L8         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:40         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:40         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:40         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 10:55         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 11:00         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 10:00         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 11:10         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/	570-73067-8	S-2.5-L8	Solid	10/14/21 09:55	10/15/21 10:10
570-73067-11         S-10-L8         Solid         10/14/21 10:10         10/15/21 10:10           570-73067-12         S-12.5-L8         Solid         10/14/21 10:15         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:40         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 10:55         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 00:00         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/	570-73067-9	S-5-L8	Solid	10/14/21 10:00	10/15/21 10:10
570-73067-12         S-12.5-L8         Solid         10/14/21 10:15         10/15/21 10:10           570-73067-13         S-2.5-O7         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:40         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 10:55         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 11:00         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 10:10         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 00:00         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:15         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14	570-73067-10	S-7.5-L8	Solid	10/14/21 10:05	10/15/21 10:10
570-73067-13         S-2.5-O7         Solid         10/14/21 10:30         10/15/21 10:10           570-73067-14         S-5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:40         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 10:55         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 00:00         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:15         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21	570-73067-11	S-10-L8	Solid	10/14/21 10:10	10/15/21 10:10
570-73067-14         S-5-O7         Solid         10/14/21 10:35         10/15/21 10:10           570-73067-15         S-7.5-O7         Solid         10/14/21 10:40         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 00:00         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:10         10/15/21 10:10           570-73067-24         S-5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 1	570-73067-12	S-12.5-L8	Solid	10/14/21 10:15	10/15/21 10:10
570-73067-15         S-7.5-O7         Solid         10/14/21 10:40         10/15/21 10:10           570-73067-16         S-10-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 10:55         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 11:00         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 00:00         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:10         10/15/21 10:10           570-73067-24         S-5-O3         Solid         10/14/21 11:15         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:30         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21	570-73067-13	S-2.5-O7	Solid	10/14/21 10:30	10/15/21 10:10
570-73067-16         S-10-O7         Solid         10/14/21 10:45         10/15/21 10:10           570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 11:00         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 10:05         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 00:00         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:10         10/15/21 10:10           570-73067-24         S-5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-26         S-2.5-P4         Solid         10/14/21 11:30         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21	570-73067-14	S-5-O7	Solid	10/14/21 10:35	10/15/21 10:10
570-73067-17         S-12.5-O7         Solid         10/14/21 10:50         10/15/21 10:10           570-73067-18         S-5-P6         Solid         10/14/21 10:55         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 11:00         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 00:00         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 11:10         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:15         10/15/21 10:10           570-73067-24         S-5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-26         S-2.5-P4         Solid         10/14/21 11:30         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/2	570-73067-15	S-7.5-O7	Solid	10/14/21 10:40	10/15/21 10:10
570-73067-18         S-5-P6         Solid         10/14/21 10:55         10/15/21 10:10           570-73067-19         S-10-P6         Solid         10/14/21 11:00         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 10:10         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:10         10/15/21 10:10           570-73067-24         S-5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-26         S-2.5-P4         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-5-P2         Solid         10/14/21 11:	570-73067-16	S-10-O7	Solid	10/14/21 10:45	10/15/21 10:10
570-73067-19         S-10-P6         Solid         10/14/21 11:00         10/15/21 10:10           570-73067-20         S-12.5-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 11:10         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:10         10/15/21 10:10           570-73067-24         S-5-O3         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-26         S-2.5-P4         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-5-P2         Solid         10/14/21 11:55         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 1	570-73067-17	S-12.5-O7	Solid	10/14/21 10:50	10/15/21 10:10
570-73067-20         S-12.5-P6         Solid         10/14/21 11:05         10/15/21 10:10           570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 11:10         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:10         10/15/21 10:10           570-73067-24         S-5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-26         S-2.5-P4         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:55         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/2	570-73067-18	S-5-P6	Solid	10/14/21 10:55	10/15/21 10:10
570-73067-21         Trip Blank         Water         10/14/21 00:00         10/15/21 10:10           570-73067-22         EQB1         Water         10/14/21 00:00         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:10         10/15/21 10:10           570-73067-24         S-5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-26         S-2.5-P4         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:30         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-19	S-10-P6	Solid	10/14/21 11:00	10/15/21 10:10
570-73067-22         EQB1         Water         10/14/21 00:00         10/15/21 10:10           570-73067-23         S-2.5-O3         Solid         10/14/21 11:10         10/15/21 10:10           570-73067-24         S-5-O3         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-26         S-2.5-P4         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:30         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-20	S-12.5-P6	Solid	10/14/21 11:05	10/15/21 10:10
570-73067-23         S-2.5-O3         Solid         10/14/21 11:10         10/15/21 10:10           570-73067-24         S-5-O3         Solid         10/14/21 11:15         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-26         S-2.5-P4         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:30         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-21	Trip Blank	Water	10/14/21 00:00	10/15/21 10:10
570-73067-24         S-5-O3         Solid         10/14/21 11:15         10/15/21 10:10           570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-26         S-2.5-P4         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:30         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-22	EQB1	Water	10/14/21 00:00	10/15/21 10:10
570-73067-25         S-7.5-O3         Solid         10/14/21 11:20         10/15/21 10:10           570-73067-26         S-2.5-P4         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:30         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-23	S-2.5-O3	Solid	10/14/21 11:10	10/15/21 10:10
570-73067-26         S-2.5-P4         Solid         10/14/21 11:25         10/15/21 10:10           570-73067-27         S-5-P4         Solid         10/14/21 11:30         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-24	S-5-O3	Solid	10/14/21 11:15	10/15/21 10:10
570-73067-27         S-5-P4         Solid         10/14/21 11:30         10/15/21 10:10           570-73067-28         S-7.5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-25	S-7.5-O3	Solid	10/14/21 11:20	10/15/21 10:10
570-73067-28         S-7.5-P4         Solid         10/14/21 11:35         10/15/21 10:10           570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-26	S-2.5-P4	Solid	10/14/21 11:25	10/15/21 10:10
570-73067-29         S-2.5-P2         Solid         10/14/21 11:40         10/15/21 10:10           570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-27	S-5-P4	Solid	10/14/21 11:30	10/15/21 10:10
570-73067-30         S-5-P2         Solid         10/14/21 11:45         10/15/21 10:10           570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-28	S-7.5-P4	Solid	10/14/21 11:35	10/15/21 10:10
570-73067-31         S-7.5-P2         Solid         10/14/21 11:50         10/15/21 10:10           570-73067-32         S-2.5-O1         Solid         10/14/21 11:55         10/15/21 10:10	570-73067-29	S-2.5-P2	Solid	10/14/21 11:40	10/15/21 10:10
570-73067-32 S-2.5-O1 Solid 10/14/21 11:55 10/15/21 10:10	570-73067-30	S-5-P2	Solid	10/14/21 11:45	10/15/21 10:10
	570-73067-31	S-7.5-P2	Solid	10/14/21 11:50	10/15/21 10:10
570-73067-33 S-5-O1 Solid 10/14/21 12:00 10/15/21 10:10	570-73067-32	S-2.5-O1	Solid	10/14/21 11:55	10/15/21 10:10
	570-73067-33	S-5-O1	Solid	10/14/21 12:00	10/15/21 10:10

Solid

10/14/21 12:05 10/15/21 10:10

### **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

#### **Qualifiers**

GC	V	O	Δ
$\mathbf{U}$		$\mathbf{\circ}$	_

Qualifier **Qualifier Description** S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased.

### Glossarv

Giossaiy						
Abbreviation	These commonly used abbreviations may or may not be present in this report.					
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis					
%R	Percent Recovery					
CFL	Contains Free Liquid					
CFU	Colony Forming Unit					
CNF	Contains No Free Liquid					
DER	Duplicate Error Ratio (normalized absolute difference)					
Dil Fac	Dilution Factor					
DL	Detection Limit (DoD/DOE)					

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

**PRES** Presumptive **Quality Control** QC

**RER** Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

**Eurofins Calscience LLC** 

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#### Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73067-1

Job ID: 570-73067-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-73067-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/15/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-187511. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical 570-batch 187778. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-187627. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188035. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188043. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-10-L8 (570-73067-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-189371. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-2.5-P2 (570-73067-29). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

Method 3510C SGC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-188013. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method 3510C SGC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-188018. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-N	19				Lab Sample ID:	570-73067-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.77		0.22	mg/Kg	1 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	300		26	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	460		26	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-M9					Lab Sample ID:	570-73067-2
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	4600	<u> </u>	420	mg/Kg	2000 × NWTPH-Gx	Total/NA
TPH as Motor Oil Range	180		5.5	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
3				3. 3		Cleanup
TPH as Diesel Range - DL	5700		55	mg/Kg	10 ⇔ NWTPH-Dx	Silica Gel Cleanup
- Client Sample ID: S-7.5-N	19				Lab Sample ID:	<u> </u>
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	3500		280	mg/Kg	1000 🌣 NWTPH-Gx	Total/NA
TPH as Motor Oil Range	1100		18	mg/Kg	2 🌣 NWTPH-Dx	Silica Gel
ac meter em tange			.0	9/. 19	2 11 11 11 2 1	Cleanup
TPH as Diesel Range - DL	21000		180	mg/Kg	20 ☼ NWTPH-Dx	Silica Gel
_						Cleanup
Client Sample ID: S-10-M	9				Lab Sample ID:	570-73067-4
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	2900		700	mg/Kg	2500 🌣 NWTPH-Gx	Total/NA
TPH as Motor Oil Range	1400		65	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
						Cleanup
TPH as Diesel Range - DL	35000		650	mg/Kg	50 ☼ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5-	M9				Lab Sample ID:	570-73067-5
_ Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	530		150	mg/Kg	250 × NWTPH-Gx	Total/NA
TPH as Diesel Range	11000		110	mg/Kg	5 ☼ NWTPH-Dx	Silica Gel
					• • • • • • • • • • • • • • • • • • • •	Cleanup
TPH as Motor Oil Range	1700		110	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel
_						Cleanup
Client Sample ID: S-15-M	9				Lab Sample ID:	570-73067-6
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	46		12	mg/Kg	20 ☼ NWTPH-Gx	Total/NA
TPH as Diesel Range	26		17	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
- Client Sample ID: S-17.5-	.M9				Lab Sample ID: (	Cleanup 570-73067-7
-		O1181	D'	11-24	•	
Analyte		Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.97		0.22	mg/Kg	1 🌣 NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

10/29/2021

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-L	8				Lab Sample ID: 5	70-73067-
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1.0		0.26	mg/Kg	1 × NWTPH-Gx	Total/NA
TPH as Diesel Range	340		10	mg/Kg	2 🌣 NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	200		10	mg/Kg	2 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-L8					Lab Sample ID: 5	70-73067-
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	3900		680	mg/Kg	2500 🔅 NWTPH-Gx	Total/NA
TPH as Motor Oil Range	1300		63	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel Cleanup
TPH as Diesel Range - DL	22000		130	mg/Kg	20 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-L	8				Lab Sample ID: 57	0-73067-1
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1900		140	mg/Kg	250 × NWTPH-Gx	Total/NA
TPH as Diesel Range	21000		82	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	890		82	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-L8	3				Lab Sample ID: 57	0-73067-1
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	320		9.4	mg/Kg	20 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	13000		100	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	920		100	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5-	L8				Lab Sample ID: 57	0-73067-1
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	12		1.9	mg/Kg	1   □ NWTPH-Gx	Total/NA
TPH as Motor Oil Range	72		49	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
- -						Cleanup
Client Sample ID: S-2.5-O	7				Lab Sample ID: 57	0-73067-1
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	520		130	mg/Kg	500 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	3800		52	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1600		52	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-O7

Lab Sample ID: 570-73067-14

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	240	24	mg/Kg	100		Total/NA
TPH as Diesel Range	870	83	mg/Kg	10	☼ NWTPH-Dx	Silica Gel
TPH as Motor Oil Range	3300	83	mg/Kg	10	∴ NWTPH-Dx	Cleanup Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

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Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-O7					Lab Sa	mple ID: 57	0-73067-15
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	2100		200	mg/Kg	500		Total/NA
TPH as Diesel Range	20000		92	mg/Kg	5	∴ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	790		92	mg/Kg	5	∴ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-O7					Lab Sa	mple ID: 57	0-73067-16
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	110		7.4	mg/Kg		NWTPH-Gx	Total/NA
TPH as Diesel Range	200		74	mg/Kg	10	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	660		74	mg/Kg	10	∴ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5-07					Lab Sa	mple ID: 57	0-73067-17
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	10		1.6	mg/Kg			Total/NA
TPH as Motor Oil Range	100		53	mg/Kg	1	∴ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-5-P6					Lab Sa	mple ID: 57	0-73067-18
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	2200		150	mg/Kg	500	NWTPH-Gx	Total/NA
TPH as Diesel Range	1400		98	mg/Kg	10	⇔ NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	990		98	mg/Kg	10	∴ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-10-P6					Lab Sa	mple ID: 57	0-73067-19
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	2.0		0.31	mg/Kg			Total/NA
TPH as Motor Oil Range	12		6.8	mg/Kg	1	☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-12.5-P6					Lab Sa	mple ID: 57	0-73067-20
Analyte	Result	Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	6.0		2.0	mg/Kg			Total/NA
TPH as Motor Oil Range	100		59	mg/Kg	1	☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: Trip Blank					Lab Sa	mple ID: 57	0-73067-21
No Detections.							
Client Sample ID: EQB1					Lab Sa	mple ID: 57	0-73067-22
Analyte	Result	Qualifier	RL	Unit	Dil Fac		Prep Type
TPH as Diesel Range	150		96	ug/L	1	NWTPH-Dx	Silica Gel

This Detection Summary does not include radiochemical test results.

Cleanup

10/29/2021

**Detection Summary** Client: Cardno, Inc Job ID: 570-73067-1 Project/Site: ExxonMobil ADC/0314476040 Client Sample ID: S-2.5-O3 Lab Sample ID: 570-73067-23 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 0.35 NWTPH-Gx mg/Kg ₩ 3.6 1 Total/NA NWTPH-Dx TPH as Diesel Range 99 6.3 mg/Kg ☼ Silica Gel Cleanup TPH as Motor Oil Range 110 6.3 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-5-O3 Lab Sample ID: 570-73067-24 Analyte Result Qualifier Unit Dil Fac D Method RL **Prep Type** TPH as Gasoline (C4-C13) 1500 68 250 ☼ NWTPH-Gx Total/NA mg/Kg TPH as Motor Oil Range 130 7.7 mg/Kg ☼ NWTPH-Dx Silica Gel Cleanup TPH as Diesel Range - DL 3200 77 10 ☼ NWTPH-Dx mg/Kg Silica Gel Cleanup Client Sample ID: S-7.5-O3 Lab Sample ID: 570-73067-25 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 1.1 0.22 mg/Kg ₽ NWTPH-Gx Total/NA 6.1 TPH as Diesel Range 6.0 1 ☼ NWTPH-Dx mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 13 6.0 1 ☼ NWTPH-Dx mg/Kg Silica Gel Cleanup Client Sample ID: S-2.5-P4 Lab Sample ID: 570-73067-26 Dil Fac D Method Analyte Result Qualifier RL Unit **Prep Type** TPH as Gasoline (C4-C13) Total/NA 250 36 200 ⊅ NWTPH-Gx mg/Kg TPH as Diesel Range 320 ☆ NWTPH-Dx 27 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 580 27 mg/Kg 5 🌣 NWTPH-Dx Silica Gel Cleanup Client Sample ID: S-5-P4 Lab Sample ID: 570-73067-27 Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 810 120 500 ₩ NWTPH-Gx Total/NA mg/Kg NWTPH-Dx TPH as Diesel Range 830 5.8 mg/Kg Silica Gel Cleanup TPH as Motor Oil Range 58 5.8 mg/Kg 1 ☼ NWTPH-Dx Silica Gel Cleanup

Client Sample ID: S-7.5-P4	Lab Sample ID: 570-73067-28

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	45	20	mg/Kg	50	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	43	34	mg/Kg	5	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	240	34	mg/Kg	5	₩	NWTPH-Dx	Silica Gel Cleanup

#### Client Sample ID: S-2.5-P2 Lab Sample ID: 570-73067-29

Analyte	Result Qualif	ier RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.23	0.22	mg/Kg	1 ₹	NWTPH-Gx	Total/NA
TPH as Diesel Range	310	28	mg/Kg	5 ≾	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

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### **Detection Summary**

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-P2	(Continu	ied)			Lab Sample ID: 57	0-73067-2
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	630		28	mg/Kg	5 🛱 NWTPH-Dx	Silica Gel
-						Cleanup
Client Sample ID: S-5-P2					Lab Sample ID: 57	0-73067-3
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1500		120	mg/Kg	500 🔅 NWTPH-Gx	Total/NA
TPH as Motor Oil Range	1600		13	mg/Kg	2 🌣 NWTPH-Dx	Silica Gel Cleanup
TPH as Diesel Range - DL	4900		63	mg/Kg	10 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-P2	)				Lab Sample ID: 57	0-73067-3
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	2.9	<u> </u>	0.32	mg/Kg	1 ☆ NWTPH-Gx	Total/NA
TPH as Diesel Range	120		14	mg/Kg	2 ☆ NWTPH-Dx	Silica Gel
•						Cleanup
TPH as Motor Oil Range	430		14	mg/Kg	2 ☼ NWTPH-Dx	Silica Gel
-						Cleanup
Client Sample ID: S-2.5-O1					Lab Sample ID: 57	0-73067-3
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	170		51	mg/Kg	10   □ NWTPH-Dx	Silica Gel
-						Cleanup
Client Sample ID: S-5-O1					Lab Sample ID: 57	0-73067-3
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Motor Oil Range	77		30	mg/Kg	5 🌣 NWTPH-Dx	Silica Gel
						Cleanup
Client Sample ID: S-7.5-O1					Lab Sample ID: 57	0-73067-3
- Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	3.7		0.28	mg/Kg	1 🔅 NWTPH-Gx	Total/NA
TPH as Diesel Range	14		6.8	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel
-						Cleanup
TPH as Motor Oil Range	13		6.8	mg/Kg	1 ☼ NWTPH-Dx	Silica Gel
_						Cleanup

This Detection Summary does not include radiochemical test results.

Dil Fac

Job ID: 570-73067-1

Analyzed

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: 570-73067-1 Client Sample ID: S-2.5-M9 **Matrix: Solid** 

Date Collected: 10/14/21 09:20 Date Received: 10/15/21 10:10

_		
Method: NWTPH-Gx - Northwest -	Volatile Petroleum	Products (GC)
Analyte	Result Qualifier	RL

TPH as Gasoline (C4-C13)	0.77	0.22	mg/Kg		10/20/21 03:13	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac

Unit

Prepared

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		50 - 150	10/19/21 12:47 10/20/21 03:13	1

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	300		26	mg/Kg	<del>-</del>	10/27/21 14:23	10/27/21 22:00	5
TPH as Motor Oil Range	460		26	mg/Kg	₩	10/27/21 14:23	10/27/21 22:00	5
Surrogate	%Recovery 0	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150			10/27/21 14:23	10/27/21 22:00	5

Client Sample ID: S-5-M9 Lab Sample ID: 570-73067-2 **Matrix: Solid** Date Collected: 10/14/21 09:25

Date Received: 10/15/21 10:10

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	4600	420	mg/Kg	₩	10/19/21 12:48	10/21/21 08:58	2000

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	50 - 150	10/19/21 12:48	10/21/21 08:58	2000

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	180	5.5	mg/Kg	— <u></u>	10/27/21 14:23	10/27/21 22:21	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113	50 - 150	10/27/21 14:23	10/27/21 22:21	1

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5700	55	mg/Kg	☆	10/27/21 14:23	10/28/21 13:36	10
Surrogata	% Bassyony Ouglifion	Limita			Branarad	Anglyzad	Dil Eco

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119	50 - 150	10/27/21 14:23	10/28/21 13:36	10

### Client Sample ID: S-7.5-M9

Date Collected: 10/14/21 09:30 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3500		280	mg/Kg	☼	10/19/21 12:48	10/21/21 08:34	1000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150			10/19/21 12:48	10/21/21 08:34	1000

Г	<del>-</del>			
ı	Method: NWTPH-Dx - No	orthwest - Semi-Volatile	Petroleum Products (	GC) - Silica Gel Cleanun

mothod: 11771 11 BX 1101th 100th 101th 101th 110th 110th 100 10th 10th								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	TPH as Motor Oil Range	1100	18	mg/Kg	— <u>—</u>	10/27/21 14:23	10/27/21 22:42	2

Lab Sample ID: 570-73067-3

Client: Cardno, Inc

Lab Sample ID: 570-73067-3 Client Sample ID: S-7.5-M9

Date Collected: 10/14/21 09:30 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117	50 - 150	10/27/21 14:23	10/27/21 22:42	2

 Method: NWTPH-Dx - No	rthwest - Semi-V	olatile Pet	roleum Product	ts (GC) - Silica	Gel (	Cleanup - DL		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	21000		180	mg/Kg	<del>-</del>	10/27/21 14:23	10/28/21 13:57	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)			50 - 150			10/27/21 14:23	10/28/21 13:57	20

Client Sample ID: S-10-M9 Lab Sample ID: 570-73067-4 Date Collected: 10/14/21 09:35 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 2900 700 mg/Kg ☼ 10/19/21 12:48 10/21/21 12:00 2500 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

4-Bromofluorobenzene (Surr)	98	50 - 150		10/19/21 12:48	10/21/21 12:00	2500
Method: NWTPH-Dx - Northwes	t - Semi-Volatile Pe	troleum Produc	ts (GC) - Silica (	Gel Cleanup		
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
Analyte TPH as Motor Oil Range	Result Qualifier	RL 65	Unit mg/Kg	D Prepared 10/27/21 14:23		Dil Fac

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate n-Octacosane (Surr) 117 50 - 150 10/27/21 14:23 10/27/21 23:02

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL Prepared Analyte Result Qualifier Analyzed Dil Fac 650 mg/Kg **TPH as Diesel Range** 35000 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 129 50 - 150 10/27/21 14:23 10/28/21 14:18 n-Octacosane (Surr)

Client Sample ID: S-12.5-M9 Lab Sample ID: 570-73067-5 Date Collected: 10/14/21 09:40 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - North	west - Volatile Petrole	um Products (GC	<b>(</b> )				
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	530	150	mg/Kg	<del>-</del>	10/19/21 12:48	10/26/21 22:08	250
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	50 - 150			10/19/21 12:48	10/26/21 22:08	250

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	11000		110	mg/Kg	<u></u>	10/27/21 14:23	10/27/21 23:23	5
TPH as Motor Oil Range	1700		110	mg/Kg	₩	10/27/21 14:23	10/27/21 23:23	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117		50 - 150			10/27/21 14:23	10/27/21 23:23	5

Job ID: 570-73067-1

Lab Sample ID: 570-73067-6 **Client Sample ID: S-15-M9** 

Date Collected: 10/14/21 09:45 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	46		12	mg/Kg	<u></u>	10/19/21 12:48	10/21/21 16:46	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		50 - 150			10/19/21 12:48	10/21/21 16:46	20

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	26	17	mg/Kg	<del>-</del>	10/27/21 14:23	10/27/21 23:45	1
TPH as Motor Oil Range	ND	17	mg/Kg	₩	10/27/21 14:23	10/27/21 23:45	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116	50 - 150			10/27/21 14:23	10/27/21 23:45	1

Lab Sample ID: 570-73067-7 Client Sample ID: S-17.5-M9 Date Collected: 10/14/21 09:50 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Date Received: 10/10/21 10:	10							
Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleui	m Products (GC	3)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.97		0.22	mg/Kg	<del>*</del>	10/19/21 12:47	10/20/21 21:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150			10/19/21 12:47	10/20/21 21:02	1

Method: NWTPH-Dx - Nor	thwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	5.8	mg/Kg	<u></u>	10/27/21 14:23	10/28/21 00:05	1
TPH as Motor Oil Range	ND	5.8	mg/Kg	₽	10/27/21 14:23	10/28/21 00:05	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113	50 - 150			10/27/21 14:23	10/28/21 00:05	1

Client Sample ID: S-2.5-L8 Lab Sample ID: 570-73067-8 Date Collected: 10/14/21 09:55 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - North	west - Volatile	<b>Petroleur</b>	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.0		0.26	mg/Kg	☼	10/19/21 12:47	10/20/21 21:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		50 - 150			10/19/21 12:47	10/20/21 21:26	1

Method: NWTPH-Dx - Nor	thwest - Semi-Volatile	e Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualif	fier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	340	10	mg/Kg	<u></u>	10/27/21 14:23	10/28/21 00:25	2
TPH as Motor Oil Range	200	10	mg/Kg	☼	10/27/21 14:23	10/28/21 00:25	2
Surrogate	%Recovery Qualit	fier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113	50 - 150			10/27/21 14:23	10/28/21 00:25	2

**Client Sample ID: S-5-L8** 

Lab Sample ID: 570-73067-9

**Matrix: Solid** 

Job ID: 570-73067-1

Date Collected: 10/14/21 10:00 Date Received: 10/15/21 10:10

Method: NWTPH-Gx - North			•	•	_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3900		680	mg/Kg	<u></u>	10/19/21 12:48	10/21/21 09:22	2500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		50 - 150			10/19/21 12:48	10/21/21 09:22	2500
4-bioinolidorobenzerie (Suit)	102		30 - 130			10/19/21 12.40	10/21/21 09.22	250

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	1300		63	mg/Kg	<del>-</del>	10/27/21 14:23	10/28/21 00:46	10
Surrogate	%Recovery G	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)			50 - 150			10/27/21 14:23	10/28/21 00:46	10

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	22000	130	mg/Kg	<del>*</del>	10/27/21 14:23	10/28/21 14:38	20
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125	50 - 150			10/27/21 14:23	10/28/21 14:38	20

Lab Sample ID: 570-73067-10 Client Sample ID: S-7.5-L8 Date Collected: 10/14/21 10:05 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - North	west - Volatile	e Petroleui	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1900		140	mg/Kg	☆	10/19/21 12:48	10/26/21 22:32	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150			10/19/21 12:48	10/26/21 22:32	250

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	21000		82	mg/Kg	₩	10/27/21 14:23	10/28/21 01:07	5
TPH as Motor Oil Range	890		82	mg/Kg	₩	10/27/21 14:23	10/28/21 01:07	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)			50 - 150			10/27/21 14:23	10/28/21 01:07	5

Client Sample ID: S-10-L8 Lab Sample ID: 570-73067-11 Date Collected: 10/14/21 10:10 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	320		9.4	mg/Kg	☆	10/19/21 12:48	10/19/21 18:41	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	50 - 150			10/19/21 12:48	10/19/21 18:41	20

Method: NWTPH-Dx - Northw	est - Semi-Volatile Petro	leum Product	ts (GC) - Silica (	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13000	100	mg/Kg	☆	10/27/21 14:23	10/28/21 02:08	5
TPH as Motor Oil Range	920	100	mg/Kg	☼	10/27/21 14:23	10/28/21 02:08	5

**Eurofins Calscience LLC** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-10-L8

Lab Sample ID: 570-73067-11

Date Collected: 10/14/21 10:10 Date Received: 10/15/21 10:10

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 116 50 - 150 10/27/21 14:23 10/28/21 02:08

Client Sample ID: S-12.5-L8 Lab Sample ID: 570-73067-12

Date Collected: 10/14/21 10:15 Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 10/19/21 12:47 10/20/21 04:49 TPH as Gasoline (C4-C13) 12 mg/Kg %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 82 50 - 150 10/19/21 12:47 10/20/21 04:49

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte		Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Di	esel Range	ND		49	mg/Kg	<del>*</del>	10/27/21 14:23	10/28/21 02:30	1
TPH as N	lotor Oil Range	72		49	mg/Kg	₩	10/27/21 14:23	10/28/21 02:30	1
Surrogate	)	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacos	ane (Surr)	125		50 - 150			10/27/21 14:23	10/28/21 02:30	1

Lab Sample ID: 570-73067-13 Client Sample ID: S-2.5-O7

Date Collected: 10/14/21 10:30

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 520 130 mg/Kg 10/19/21 12:48 10/21/21 07:46 TPH as Gasoline (C4-C13) 500 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 115 50 - 150 10/19/21 12:48 10/21/21 07:46 500

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3800		52	mg/Kg	<u></u>	10/27/21 14:23	10/28/21 02:50	5
TPH as Motor Oil Range	1600		52	mg/Kg	₩	10/27/21 14:23	10/28/21 02:50	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		50 - 150			10/27/21 14:23	10/28/21 02:50	5

Lab Sample ID: 570-73067-14 Client Sample ID: S-5-O7

Date Collected: 10/14/21 10:35 Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northy	west - Volatile	Petroleur	m Products (GC)	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	240		24	mg/Kg	<del>*</del>	10/19/21 12:48	10/21/21 09:28	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			10/19/21 12:48	10/21/21 09:28	100

Client Sample ID: S-5-07

Date Collected: 10/14/21 10:35 Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-14

**Matrix: Solid** 

Job ID: 570-73067-1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	870	83	mg/Kg	— <u></u>	10/27/21 14:23	10/28/21 03:11	10
TPH as Motor Oil Range	3300	83	mg/Kg	₩	10/27/21 14:23	10/28/21 03:11	10
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	132	50 - 150			10/27/21 14:23	10/28/21 03:11	10

Client Sample ID: S-7.5-O7 Lab Sample ID: 570-73067-15 **Matrix: Solid** 

Date Collected: 10/14/21 10:40 Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2100	200	mg/Kg	<u></u>	10/19/21 12:48	10/21/21 02:04	500
Surrogate	%Recovery Qua	alifier Limits			Prepared	Analyzed	Dil Fac

10/19/21 12:48 10/21/21 02:04 4-Bromofluorobenzene (Surr)

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	20000	92	mg/Kg	— <u></u>	10/27/21 14:23	10/28/21 03:31	5
TPH as Motor Oil Range	790	92	mg/Kg	₩	10/27/21 14:23	10/28/21 03:31	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121	50 - 150			10/27/21 14:23	10/28/21 03:31	5

Client Sample ID: S-10-O7 Lab Sample ID: 570-73067-16 **Matrix: Solid** 

Date Collected: 10/14/21 10:45 Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

				()				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	110		7.4	mg/Kg	₩	10/19/21 12:48	10/19/21 19:05	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		50 - 150			10/19/21 12:48	10/19/21 19:05	20

Method: NW I PH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup											
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
TPH as Diesel Range	200	74	mg/Kg	☼	10/27/21 14:23	10/28/21 03:52	10				
TPH as Motor Oil Range	660	74	mg/Kg	☼	10/27/21 14:23	10/28/21 03:52	10				
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits 50 - 150			Prepared 10/27/21 14:23	Analyzed 10/28/21 03:52	Dil Fac				

Client Sample ID: S-12.5-O7 Lab Sample ID: 570-73067-17 Date Collected: 10/14/21 10:50 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)									
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	10		1.6	mg/Kg	<del></del> <del> </del>	10/19/21 12:47	10/20/21 14:24	1	

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-12.5-O7

Date Collected: 10/14/21 10:50 Date Received: 10/15/21 10:10 Lab Sample ID: 570-73067-17

Matrix: Solid

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83	50 - 150	10/19/21 12:47	10/20/21 14:24	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		53	mg/Kg	<u></u>	10/27/21 14:23	10/28/21 04:14	1
TPH as Motor Oil Range	100		53	mg/Kg	₩	10/27/21 14:23	10/28/21 04:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116		50 - 150			10/27/21 14:23	10/28/21 04:14	1

Client Sample ID: S-5-P6

Date Collected: 10/14/21 10:55

Lab Sample ID: 570-73067-18

Matrix: Solid

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte Result Qualifier Unit D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) 150 10/19/21 12:48 10/21/21 01:40 500 2200 mg/Kg Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 131 50 - 150 10/19/21 12:48 10/21/21 01:40

Method: NWTPH-Dx - Nort	hwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1400		98	mg/Kg	— <u></u>	10/27/21 14:23	10/28/21 04:35	10
TPH as Motor Oil Range	990		98	mg/Kg	₩	10/27/21 14:23	10/28/21 04:35	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	118		50 - 150			10/27/21 14:23	10/28/21 04:35	10

Client Sample ID: S-10-P6

Date Collected: 10/14/21 11:00

Lab Sample ID: 570-73067-19

Matrix: Solid

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit D Analyzed RL Prepared Dil Fac TPH as Gasoline (C4-C13) 0.31 10/19/21 12:47 10/20/21 13:12 2.0 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 109 50 - 150 10/19/21 12:47 10/20/21 13:12

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.8	mg/Kg	☆	10/27/21 14:23	10/28/21 04:55	1
TPH as Motor Oil Range	12	6.8	mg/Kg	₽	10/27/21 14:23	10/28/21 04:55	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111	50 - 150			10/27/21 14:23	10/28/21 04:55	1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-12.5-P6

Date Collected: 10/14/21 11:05 Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-20

Matrix: Solid

**Matrix: Water** 

Job ID: 570-73067-1

Method: NWTPH-Gx - Northwest -	<b>Volatile Petroleum Products (G</b>	C)
Aughuta	Descrit Analities DI	

Unit Prepared Analyzed Dil Fac Analyte RL Result Qualifier 10/19/21 12:47 10/20/21 14:47 2.0 mg/Kg TPH as Gasoline (C4-C13) 6.0

Surrogate Qualifier Limits Prepared Analyzed Dil Fac %Recovery 82 50 - 150 10/19/21 12:47 10/20/21 14:47 4-Bromofluorobenzene (Surr)

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	59	mg/Kg	10/27/21 14:23	10/28/21 05:16	1
TPH as Motor Oil Range	100	59	mg/Kg ☆	10/27/21 14:23	10/28/21 05:16	1
Surrogato	%Recovery Qualifier	l imite		Propared	Analyzod	Dil Fac

surrogate n-Octacosane (Surr) 119 50 - 150 10/27/21 14:23 10/28/21 05:16

Client Sample ID: Trip Blank

Lab Sample ID: 570-73067-21 Date Collected: 10/14/21 00:00 **Matrix: Water** 

Date Received: 10/15/21 10:10

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

				. ,					
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100		ug/L			10/20/21 00:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150					10/20/21 00:28	1

Client Sample ID: EQB1 Lab Sample ID: 570-73067-22

Date Collected: 10/14/21 00:00 Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Result Qualifier Analyte RL Unit n Prepared Analyzed Dil Fac 100 TPH as Gasoline (C4-C13) ND ug/L 10/20/21 00:57

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 56 50 - 150 10/20/21 00:57

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	•	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	150		96		ug/L		10/20/21 16:00	10/26/21 17:52	1
TPH as Motor Oil Range	ND		96		ug/L		10/20/21 16:00	10/26/21 17:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	136		50 - 150				10/20/21 16:00	10/26/21 17:52	1

Client Sample ID: S-2.5-O3 Lab Sample ID: 570-73067-23

Date Collected: 10/14/21 11:10 Date Received: 10/15/21 10:10

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3.6	0.35	mg/Kg	<del>-</del>	10/19/21 12:47	10/20/21 15:11	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 108 50 - 150 10/19/21 12:47 10/20/21 15:11

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Matrix: Solid

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-O3

Date Collected: 10/14/21 11:10
Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-23

<u>10/19/21 12:48</u> <u>10/21/21 11:03</u>

Matrix: Solid

Job ID: 570-73067-1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products	(CC) - Silica Col Cleanue
Method. NV 1711-DX - NOI thwest - Seini-Volatile Fetholeum Floudets	(GC) - Silica Gel Gleallup

1	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1 7	TPH as Diesel Range	99		6.3	mg/Kg	—— —	10/27/21 14:52	10/27/21 22:36	1
•	ΓPH as Motor Oil Range	110		6.3	mg/Kg	₩	10/27/21 14:52	10/27/21 22:36	1
	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
ī	n-Octacosane (Surr)	105		50 - 150			10/27/21 14:52	10/27/21 22:36	1

Client Sample ID: S-5-O3

Date Collected: 10/14/21 11:15

Lab Sample ID: 570-73067-24

Matrix: Solid

Date Received: 10/15/21 10:10

4-Bromofluorobenzene (Surr)

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result 1500	Qualifier	RL 68	 Unit mg/Kg	<u>D</u>	Prepared 10/19/21 12:48	Analyzed 10/21/21 11:03	Dil Fac 250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Method: NW IPH-DX - Northwest - Semi-volatile Petroleum Products (GC) - Silica Gel Cleanup										
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
TPH as Motor Oil Range	130	7.7	mg/Kg	— <u>—</u>	10/27/21 14:52	10/27/21 22:55	1			

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac 10/27/21 14:52

 10/27/21 14:52
 10/27/21 22:55
 1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte TPH as Diesel Range		Qualifier	RL 77	Unit mg/Kg	_ <u>D</u>	Prepared	Analyzed 10/28/21 16:00	Dil Fac
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 10/27/21 14:52	Analyzed 10/28/21 16:00	Dil Fac

Client Sample ID: S-7.5-O3 Lab Sample ID: 570-73067-25

Date Collected: 10/14/21 11:20 Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.1		0.22	mg/Kg	₩	10/19/21 12:47	10/20/21 13:36	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127	50 - 150	10/19/21 12:47	10/20/21 13:36	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	6.1		6.0	mg/Kg	<del>-</del>	10/27/21 14:52	10/27/21 23:15	1	
TPH as Motor Oil Range	13		6.0	mg/Kg	₩	10/27/21 14:52	10/27/21 23:15	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	90		50 - 150			10/27/21 14:52	10/27/21 23:15	1	

**Matrix: Solid** 

Job ID: 570-73067-1 Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: 570-73067-26 **Client Sample ID: S-2.5-P4** 

Date Collected: 10/14/21 11:25 **Matrix: Solid** Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	m Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	250		36	mg/Kg	<del>*</del>	10/19/21 12:48	10/21/21 10:40	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150			10/19/21 12:48	10/21/21 10:40	200

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	320		27	mg/Kg	<u></u>	10/27/21 14:52	10/27/21 23:36	
TPH as Motor Oil Range	580		27	mg/Kg	₽	10/27/21 14:52	10/27/21 23:36	Ę
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116		50 - 150			10/27/21 14:52	10/27/21 23:36	

Client Sample ID: S-5-P4 Lab Sample ID: 570-73067-27 Date Collected: 10/14/21 11:30 **Matrix: Solid** 

Date Received: 10/15/21 10:10

_ Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	810		120	mg/Kg	<del>*</del>	10/19/21 12:48	10/21/21 11:27	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			10/19/21 12:48	10/21/21 11:27	500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	830		5.8	mg/Kg	☆	10/27/21 14:52	10/27/21 23:56	1
TPH as Motor Oil Range	58		5.8	mg/Kg	₩	10/27/21 14:52	10/27/21 23:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			10/27/21 14:52	10/27/21 23:56	1

Lab Sample ID: 570-73067-28 Client Sample ID: S-7.5-P4 **Matrix: Solid** 

Date Collected: 10/14/21 11:35 Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Northw							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	45	20	mg/Kg	₩	10/19/21 12:48	10/26/21 22:56	50
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery Qualifier 56	Limits 50 - 150			Prepared 10/19/21 12:48	Analyzed 10/26/21 22:56	Dil Fac 50

Method: NWTPH-Dx - North	thwest - Semi-Volatile Pe	troleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	43	34	mg/Kg	₽	10/27/21 14:52	10/28/21 00:15	5
TPH as Motor Oil Range	240	34	mg/Kg	☼	10/27/21 14:52	10/28/21 00:15	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108	50 - 150			10/27/21 14:52	10/28/21 00:15	5

Lab Sample ID: 570-73067-29 **Client Sample ID: S-2.5-P2** 

Date Collected: 10/14/21 11:40 **Matrix: Solid** Date Received: 10/15/21 10:10

Method: NWTPH-Gx - North	nwest - Volatile	e Petroleui	n Products (GC	<b>(</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.23		0.22	mg/Kg	₽	10/19/21 12:47	10/20/21 14:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	28	S1-	50 - 150			10/19/21 12:47	10/20/21 14:00	1

Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	310		28	mg/Kg	₩	10/27/21 14:52	10/28/21 00:35	
TPH as Motor Oil Range	630		28	mg/Kg	₩	10/27/21 14:52	10/28/21 00:35	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		50 - 150			10/27/21 14:52	10/28/21 00:35	

**Client Sample ID: S-5-P2** Lab Sample ID: 570-73067-30 Date Collected: 10/14/21 11:45 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleur	n Products (GC	5)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1500		120	mg/Kg	<del>*</del>	10/19/21 12:48	10/21/21 07:29	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			10/19/21 12:48	10/21/21 07:29	500

Method: NWTPH-Dx - Northw	est - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	1600		13	mg/Kg	<del>*</del>	10/27/21 14:52	10/28/21 00:56	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		50 - 150			10/27/21 14:52	10/28/21 00:56	2

Method: NWTPH-Dx - No	rthwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup - DL		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4900		63	mg/Kg	<del>*</del>	10/27/21 14:52	10/28/21 16:20	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121		50 - 150			10/27/21 14:52	10/28/21 16:20	10

Client Sample ID: S-7.5-P2 Lab Sample ID: 570-73067-31 Date Collected: 10/14/21 11:50 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2.9		0.32	mg/Kg	<u></u>	10/19/21 12:47	10/20/21 22:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		50 - 150			10/19/21 12:47	10/20/21 22:39	1

Method: NWTPH-Dx - Northwes	st - Semi-Volatile Petro	leum Product	s (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	120	14	mg/Kg	<del>-</del>	10/27/21 14:52	10/28/21 01:17	2
TPH as Motor Oil Range	430	14	mg/Kg	☆	10/27/21 14:52	10/28/21 01:17	2

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-P2

Date Collected: 10/14/21 11:50 Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-31

Matrix: Solid

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 110 50 - 150 10/27/21 14:52 10/28/21 01:17

Client Sample ID: S-2.5-O1 Lab Sample ID: 570-73067-32

Date Collected: 10/14/21 11:55 Date Received: 10/15/21 10:10

**Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 10/19/21 12:47 10/20/21 23:03 TPH as Gasoline (C4-C13) ND 0.27 mg/Kg %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 100 50 - 150 10/19/21 12:47 10/20/21 23:03

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier Unit Prepared Analyzed Dil Fac TPH as Diesel Range ND 51 mg/Kg 10/27/21 14:52 10/28/21 01:36 10 51 10/27/21 14:52 10/28/21 01:36 **TPH as Motor Oil Range** 170 mg/Kg 10 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 107 50 - 150 10/27/21 14:52 10/28/21 01:36

Client Sample ID: S-5-O1 Lab Sample ID: 570-73067-33

Date Collected: 10/14/21 12:00

**Matrix: Solid** 

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - North	Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg	☆	10/19/21 12:47	10/20/21 23:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	97		50 - 150			10/19/21 12:47	10/20/21 23:27	1	

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit Prepared Dil Fac TPH as Diesel Range ND 30 mg/Kg 10/27/21 14:52 10/28/21 02:37 5 30 10/27/21 14:52 10/28/21 02:37 **TPH as Motor Oil Range 77** mg/Kg 5 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 50 - 150 10/27/21 14:52 10/28/21 02:37 99

Client Sample ID: S-7.5-O1 Lab Sample ID: 570-73067-34 Date Collected: 10/14/21 12:05 **Matrix: Solid** 

Date Received: 10/15/21 10:10

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (GC	;)				
Analyte	Result	Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3.7		0.28	mg/Kg	<del>-</del>	10/19/21 12:47	10/20/21 23:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			10/19/21 12:47	10/20/21 23:51	1

# **Client Sample Results**

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-O1 Lab Sample ID: 570-73067-34

Date Collected: 10/14/21 12:05 Matrix: Solid

Date Received: 10/15/21 10:10

Method: NWTPH-Dx - North Analyte		Qualifier	roleum Produc RL	ts (GC) - Silica Unit	Gero	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	14		6.8	mg/Kg	— <u></u>	10/27/21 14:52	10/28/21 02:56	1
TPH as Motor Oil Range	13		6.8	mg/Kg	₽	10/27/21 14:52	10/28/21 02:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			10/27/21 14:52	10/28/21 02:56	1

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# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid			Prep Type: Total/NA
		DED 4	Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-73067-1 570-73067-2	S-2.5-M9	111	
570-73067-2	S-5-M9	107	
570-73067-3	S-7.5-M9	90	
570-73067-4 570-73067- <i>5</i>	S-10-M9	98	
570-73067-5	S-12.5-M9	75	
570-73067-6 570-73067-7	S-15-M9	116	
570-73067-7	S-17.5-M9	78	
570-73067-8	S-2.5-L8	119	
570-73067-9 -70-73067-40	S-5-L8	102	
570-73067-10	S-7.5-L8	84	
570-73067-11	S-10-L8	171 S1+	
570-73067-12	S-12.5-L8	82	
570-73067-13	S-2.5-07	115	
570-73067-14	S-5-07	72	
570-73067-15	S-7.5-07	102	
570-73067-16	S-10-07	116	
570-73067-17	S-12.5-07	83	
70-73067-18	S-5-P6	131	
570-73067-19	S-10-P6	109	
570-73067-20	S-12.5-P6	82	
70-73067-23	S-2.5-O3	108	
570-73067-24	S-5-03	50	
570-73067-25	S-7.5-03	127	
570-73067-26	S-2.5-P4	60	
570-73067-27	S-5-P4	69	
570-73067-28	S-7.5-P4	56	
570-73067-29	S-2.5-P2	28 S1-	
570-73067-30	S-5-P2	69	
570-73067-31	S-7.5-P2	100	
570-73067-32	S-2.5-O1	100	
570-73067-33	S-5-01	97	
570-73067-34	S-7.5-O1	77	
.CS 570-187511/6	Lab Control Sample	100	
.CS 570-187627/3	Lab Control Sample	111	
.CS 570-187778/3	Lab Control Sample	109	
.CS 570-188035/35	Lab Control Sample	108	
CS 570-188043/33	Lab Control Sample	125	
.CS 570-189371/3	Lab Control Sample	112	
CSD 570-187511/7	Lab Control Sample Dup	104	
_CSD 570-187627/4	Lab Control Sample Dup	107	
LCSD 570-187778/4	Lab Control Sample Dup	109	
CSD 570-188035/36	Lab Control Sample Dup	108	
CSD 570-188043/34	Lab Control Sample Dup	121	
LCSD 570-189371/4	Lab Control Sample Dup	105	
MB 570-187511/8	Method Blank	79	
MB 570-187627/5	Method Blank	97	
MB 570-187778/5	Method Blank	93	
MB 570-188035/38	Method Blank	95	
MB 570-188043/36	Method Blank	95	

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Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
MB 570-189371/6	Method Blank	79	
Surrogate Legend			
BFB = 4-Bromofluoro	bbenzene (Surr)		

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)** 

**Matrix: Water** Prep Type: Total/NA

		BFB1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(50-150)	
570-72969-D-3 MS	Matrix Spike	89	
570-72969-D-3 MSD	Matrix Spike Duplicate	91	
570-73067-21	Trip Blank	57	
570-73067-22	EQB1	56	
LCS 570-187662/3	Lab Control Sample	91	
LCSD 570-187662/4	Lab Control Sample Dup	87	
MB 570-187662/5	Method Blank	56	
Surrogate Legend			

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-73067-1	S-2.5-M9	109	
570-73067-2	S-5-M9	113	
570-73067-2 - DL	S-5-M9	119	
570-73067-3	S-7.5-M9	117	
570-73067-3 - DL	S-7.5-M9	110	
570-73067-4	S-10-M9	117	
570-73067-4 - DL	S-10-M9	129	
570-73067-5	S-12.5-M9	117	
570-73067-6	S-15-M9	116	
570-73067-7	S-17.5-M9	113	
570-73067-7 MS	S-17.5-M9	108	
570-73067-7 MS	S-17.5-M9	110	
570-73067-7 MSD	S-17.5-M9	106	
570-73067-7 MSD	S-17.5-M9	104	
570-73067-8	S-2.5-L8	113	
570-73067-9	S-5-L8	123	
570-73067-9 - DL	S-5-L8	125	
570-73067-10	S-7.5-L8	114	
570-73067-11	S-10-L8	116	
570-73067-12	S-12.5-L8	125	
570-73067-13	S-2.5-O7	115	
570-73067-14	S-5-07	132	
570-73067-15	S-7.5-O7	121	
570-73067-16	S-10-O7	125	

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Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-73067-17	S-12.5-O7	116	
570-73067-18	S-5-P6	118	
570-73067-19	S-10-P6	111	
570-73067-20	S-12.5-P6	119	
570-73067-23	S-2.5-O3	105	
570-73067-23 MS	S-2.5-O3	98	
570-73067-23 MS	S-2.5-O3	101	
570-73067-23 MSD	S-2.5-O3	106	
570-73067-23 MSD	S-2.5-O3	100	
570-73067-24 - DL	S-5-O3	111	
570-73067-24	S-5-O3	109	
570-73067-25	S-7.5-O3	90	
570-73067-26	S-2.5-P4	116	
570-73067-27	S-5-P4	107	
570-73067-28	S-7.5-P4	108	
570-73067-29	S-2.5-P2	112	
570-73067-30 - DL	S-5-P2	121	
570-73067-30	S-5-P2	105	
570-73067-31	S-7.5-P2	110	
570-73067-32	S-2.5-O1	107	
570-73067-33	S-5-O1	99	
570-73067-34	S-7.5-O1	107	
LCS 570-189773/2-A	Lab Control Sample	111	
LCS 570-189773/6-A	Lab Control Sample	110	
LCS 570-189781/2-A	Lab Control Sample	106	
LCS 570-189781/6-A	Lab Control Sample	105	
LCSD 570-189773/3-A	Lab Control Sample Dup	109	
LCSD 570-189773/7-A	Lab Control Sample Dup	105	
LCSD 570-189781/3-A	Lab Control Sample Dup	102	
LCSD 570-189781/7-A	Lab Control Sample Dup	105	
MB 570-189773/1-A	Method Blank	110	
	Method Blank	108	

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Matrix: Water Prep Type: Silica Gel Cleanup** 

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-73067-22	EQB1	136	
LCS 570-188018/2-A	Lab Control Sample	102	
LCS 570-188018/4-A	Lab Control Sample	105	
LCSD 570-188018/3-A	Lab Control Sample Dup	103	
LCSD 570-188018/5-A	Lab Control Sample Dup	104	
MB 570-188018/1-A	Method Blank	108	
Surrogate Legend			

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Prep Type: Total/NA

**Prep Type: Total/NA** 

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

Client Sample ID: Lab Control Sample

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-187511/8 Client Sample ID: Method Blank

**Matrix: Solid** 

Analysis Batch: 187511

Prep Type: Total/NA

Result Qualifier RL Unit Analyzed Dil Fac Analyte D Prepared TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 10/19/21 13:53 20

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 10/19/21 13:53

Lab Sample ID: LCS 570-187511/6 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 187511

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits

TPH as Gasoline (C4-C13) 2.12 2.103 mg/Kg 99 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 100

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-187511/7

**Matrix: Solid** 

**Analysis Batch: 187511** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.12 2.140 mg/Kg 101 77 - 128

LCSD LCSD

%Recovery Qualifier Surrogate Limits

4-Bromofluorobenzene (Surr) 104 50 - 150

Lab Sample ID: MB 570-187627/5

**Matrix: Solid** 

**Analysis Batch: 187627** 

MB MB

Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac mg/Kg TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.25 10/19/21 17:02

MB MB

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 4-Bromofluorobenzene (Surr) 10/19/21 17:02 50 - 150 97

Lab Sample ID: LCS 570-187627/3

**Matrix: Solid** 

**Analysis Batch: 187627** 

Spike LCS LCS %Rec. Added Result Qualifier Unit Limits Analyte %Rec 2.12 77 - 128 TPH as Gasoline (C4-C13) 2.155 mg/Kg 101

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 111

Eurofins Calscience LLC

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: LCSD 570-187627/4

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

**Matrix: Solid** 

Client: Cardno, Inc

**Analysis Batch: 187627** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.12	2.351		mg/Kg		111	77 - 128	9	16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr)

Lab Sample ID: MB 570-187662/5 **Client Sample ID: Method Blank** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ua/l			10/19/21 18:52	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	d Dil Fac	
4-Bromofluorobenzene (Surr)	56		50 - 150	10/19/21 18	3:52 1	

Lab Sample ID: LCS 570-187662/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	2130	2099		ug/L		99	76 - 128	

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-187662/4 Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

		Spike	LCSD	LCSD				%Rec.		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
TPH as Gasoline (C4-C13)	 	2130	2111		ua/l		99	76 - 128		10	

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 87

Lab Sample ID: 570-72969-D-3 MS

**Matrix: Water** 

**Analysis Batch: 187662** 

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	ND		2130	2070		ug/L		97	69 - 132	

MS MS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 89

**Eurofins Calscience LLC** 

**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: 570-72969-D-3 MSD

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

**Matrix: Water** 

Client: Cardno, Inc

**Analysis Batch: 187662** 

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	ND		2130	2120		ug/L		100	69 - 132	2	15

MSD MSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr)

Lab Sample ID: MB 570-187778/5 **Client Sample ID: Method Blank** Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187778** 

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/20/21 11:07	1

MB MB

Surrogate	%Recovery Qเ	ualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		50 - 150	10/20/21 11:0	7 1

Lab Sample ID: LCS 570-187778/3 **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 187778** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Gasoline (C4-C13)	2.12	2.148		mg/Kg		101	77 - 128	 

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 50 - 150

Lab Sample ID: LCSD 570-187778/4 Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 187778** 

	эріке	LCOD	LCSD				%Rec.		KPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
TPH as Gasoline (C4-C13)	2.12	2.220		mg/Kg		105	77 - 128	3	16	

Chiles

LCCD LCCD

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150 109

Lab Sample ID: MB 570-188035/38

**Matrix: Solid** 

Analysis Batch: 188035								
-	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/21/21 03:04	20
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150		_		10/21/21 03:04	20

**Eurofins Calscience LLC** 

Prep Type: Total/NA

Prep Type: Total/NA

0/ Baa

Client Sample ID: Method Blank

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73067-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-188035/35 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Spike

Added

2.13

**Matrix: Solid** 

Analyte

**Analysis Batch: 188035** 

TPH as Gasoline (C4-C13)

LCS LCS %Rec. Result Qualifier Limits Unit %Rec

110

77 - 128

mg/Kg

LCS LCS

%Recovery Surrogate Qualifier Limits 4-Bromofluorobenzene (Surr) 108 50 - 150

Lab Sample ID: LCSD 570-188035/36 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

2.347

**Matrix: Solid** 

Analysis Batch: 188035

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.13 2.349 mg/Kg 110 77 - 128 n

LCSD LCSD

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 108

Client Sample ID: Method Blank Lab Sample ID: MB 570-188043/36 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 188043** MB MB

Analyte Qualifier RL Unit Prepared Analyzed Dil Fac Result TPH as Gasoline (C4-C13) 10/21/21 01:16  $\overline{\mathsf{ND}}$ 5.0 mg/Kg

MB MB

Surrogate %Recovery Qualifier Dil Fac Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 95 50 - 150 10/21/21 01:16 20

Lab Sample ID: LCS 570-188043/33 **Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 188043** 

Spike LCS LCS %Rec. Added Limits Analyte Result Qualifier Unit D %Rec TPH as Gasoline (C4-C13) 2.13 2.023 95 77 - 128 mg/Kg

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 50 - 150 125

Lab Sample ID: LCSD 570-188043/34

**Matrix: Solid** 

**Analysis Batch: 188043** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte 2.13 TPH as Gasoline (C4-C13) 2.003 mg/Kg 94 77 - 128

LCSD LCSD

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 121

Eurofins Calscience LLC

**Prep Type: Total/NA** 

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 570-189371/6 Client Sample ID: Method Blank

**Matrix: Solid** 

Analysis Batch: 189371

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 10/26/21 14:36 20

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 50 - 150 10/26/21 14:36

Lab Sample ID: LCS 570-189371/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 189371

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.13 2.003 mg/Kg 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-189371/4

**Matrix: Solid** 

**Analysis Batch: 189371** 

Spike LCSD LCSD %Rec RPD %Rec Analyte Added Result Qualifier Unit Limits RPD Limit TPH as Gasoline (C4-C13) 2.13 2.001 77 - 128 mg/Kg

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 105 50 - 150

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-188018/1-A

Client Sample ID: Method Blank **Matrix: Water** Prep Type: Silica Gel Cleanup **Analysis Batch: 187973 Prep Batch: 188018** MB MB

**Analyte** Result Qualifier RL Unit D Prepared Analyzed Dil Fac TPH as Diesel Range ND 100 ug/L 10/20/21 16:00 10/20/21 19:31 TPH as Motor Oil Range ND 100 ug/L 10/20/21 16:00 10/20/21 19:31

MB MB

Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac n-Octacosane (Surr) 108 50 - 150 10/20/21 16:00 10/20/21 19:31

Lab Sample ID: LCS 570-188018/2-A

**Matrix: Water** 

**Analysis Batch: 187973** 

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup **Prep Batch: 188018** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 4000 4097 68 - 120 ug/L 102

LCS LCS

%Recovery Qualifier Limits Surrogate 50 - 150 n-Octacosane (Surr) 102

**Eurofins Calscience LLC** 

10/29/2021

Client: Cardno, Inc Job ID: 570-73067-1

LCS LCS

LCSD LCSD

LCSD LCSD

LCS LCS

445.5

Result Qualifier

4281

RL

5.0

5.0

Limits

Spike

Added

400

50 - 150

Result Qualifier

4271

4333

Result Qualifier

Unit

ug/L

Project/Site: ExxonMobil ADC/0314476040

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Added

Limits

50 - 150

Spike

Added

4000

4000

Lab Sample ID: LCS 570-188018/4-A

**Matrix: Water** 

**Analysis Batch: 187973** 

Analyte TPH as Motor Oil (C17-C44)

LCS LCS Surrogate n-Octacosane (Surr)

%Recovery Qualifier

105

LCSD LCSD

LCSD LCSD %Recovery Qualifier

MB MB

MB MB

Qualifier

ND

ND

110

%Recovery

Result Qualifier

104

%Recovery Qualifier

103

Lab Sample ID: LCSD 570-188018/3-A

**Matrix: Water Analysis Batch: 187973** 

Analyte TPH as Diesel (C10-C28)

Surrogate n-Octacosane (Surr)

Lab Sample ID: LCSD 570-188018/5-A

**Matrix: Water** 

**Analysis Batch: 187973** 

Analyte TPH as Motor Oil (C17-C44)

Surrogate

n-Octacosane (Surr)

Lab Sample ID: MB 570-189773/1-A **Matrix: Solid** 

**Analysis Batch: 189785** 

Analyte TPH as Diesel Range TPH as Motor Oil Range

Surrogate n-Octacosane (Surr)

**Matrix: Solid Analysis Batch: 189785** 

Lab Sample ID: LCS 570-189773/2-A

Analyte TPH as Diesel (C10-C28)

Surrogate n-Octacosane (Surr)

LCS LCS %Recovery Qualifier 111

Limits 50 - 150 **Client Sample ID: Lab Control Sample** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 188018** 

%Rec. Limits

%Rec 108 71 - 129

Client Sample ID: Lab Control Sample Dup Prep Type: Silica Gel Cleanup

**Prep Batch: 188018** 

RPD %Rec.

Result Qualifier Unit %Rec Limits RPD Limit ug/L 107 68 - 120 4

Limits

50 - 150

Client Sample ID: Lab Control Sample Dup

**Prep Type: Silica Gel Cleanup Prep Batch: 188018** 

%Rec RPD

%Rec Limits RPD Limit 107 71 - 129

Limits

Spike

Added

4000

50 - 150

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

Unit

ug/L

**Client Sample ID: Method Blank** 

**Prep Batch: 189773** 

Prep Type: Silica Gel Cleanup

D Prepared Analyzed Dil Fac 10/27/21 14:23 10/27/21 18:16

10/27/21 14:23 10/27/21 18:16

Prepared Analyzed 10/27/21 14:23 10/27/21 18:16

**Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup** 

**Prep Batch: 189773** 

%Rec

Limits

%Rec 111

76 - 126

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-189773/6-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Silica Gel Cleanup

417.2

400

TPH as Motor Oil (C17-C44)

Analyte

**Analysis Batch: 189785** 

**Prep Batch: 189773** Spike LCS LCS %Rec. Added Result Qualifier Limits Unit %Rec

mg/Kg

71 - 139

104

LCS LCS Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 110 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-189773/3-A **Matrix: Solid** Prep Type: Silica Gel Cleanup

**Analysis Batch: 189785 Prep Batch: 189773** LCSD LCSD %Rec. RPD Spike

Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 400 442.9 mg/Kg 111 76 - 126 1

LCSD LCSD Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 109 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-189773/7-A **Matrix: Solid Prep Type: Silica Gel Cleanup** 

**Analysis Batch: 189785 Prep Batch: 189773** 

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) 400 406.3 102 71 - 139 mg/Kg

LCSD LCSD %Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 105 50 - 150

Lab Sample ID: 570-73067-7 MS Client Sample ID: S-17.5-M9 **Matrix: Solid** Prep Type: Silica Gel Cleanup

**Analysis Batch: 189785 Prep Batch: 189773** Sample Sample Spike MS MS %Rec.

Result Qualifier Added Limits Analyte Result Qualifier Unit %Rec TPH as Diesel (C10-C28) ND 504 561.1 mg/Kg 111 37 - 175

MS MS %Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 108

Lab Sample ID: 570-73067-7 MS

**Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 189785 Prep Batch: 189773** 

Sample Sample Spike MS MS %Rec. Result Qualifier babb∆ Result Qualifier Limits Analyte Unit D %Rec

TPH as Motor Oil (C17-C44) 71 - 174 ND 497 486.7 mg/Kg 98 MS MS

Surrogate %Recovery Qualifier Limits 110 50 - 150 n-Octacosane (Surr)

**Eurofins Calscience LLC** 

Client Sample ID: S-17.5-M9

Project/Site: ExxonMobil ADC/0314476040

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-73067-7 MSD Client Sample ID: S-17.5-M9 **Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 189785 Prep Batch: 189773** Sample Sample Spike MSD MSD %Rec. **RPD** 

Result Qualifier Result Qualifier Added Unit Limits RPD Limit Analyte %Rec TPH as Diesel (C10-C28) ND 493 528.9 mg/Kg 107 37 - 175 6 20

MSD MSD Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 106 50 - 150

Client Sample ID: S-17.5-M9 Lab Sample ID: 570-73067-7 MSD **Matrix: Solid** Prep Type: Silica Gel Cleanup

Client: Cardno, Inc

**Analysis Batch: 189785** 

**Prep Batch: 189773** %Rec. RPD Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) ND 507 475.5 mg/Kg 94 71 - 174 2

MSD MSD %Recovery Surrogate Qualifier Limits 50 - 150 n-Octacosane (Surr) 104

**Client Sample ID: Method Blank** Lab Sample ID: MB 570-189781/1-A **Matrix: Solid** 

**Analysis Batch: 189859** 

Prep Type: Silica Gel Cleanup **Prep Batch: 189781** MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 5.0 mg/Kg 10/27/21 14:52 10/27/21 19:21 TPH as Motor Oil Range ND 5.0 mg/Kg 10/27/21 14:52 10/27/21 19:21

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 108 50 - 150 10/27/21 14:52 10/27/21 19:21

Lab Sample ID: LCS 570-189781/2-A

**Matrix: Solid** 

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup Analysis Batch: 189859 **Prep Batch: 189781** LCS LCS Spike %Rec.

Added Limits Result Qualifier Unit %Rec 400 452.5 76 - 126 TPH as Diesel (C10-C28) mg/Kg 113

LCS LCS %Recovery

Surrogate Qualifier Limits n-Octacosane (Surr) 106 50 - 150

Lab Sample ID: LCS 570-189781/6-A

**Matrix: Solid** 

Analysis Batch: 189859

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup **Prep Batch: 189781** 

LCS LCS Spike %Rec. Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 400 407.1 mg/Kg 102 71 - 139

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 105 50 - 150

**Eurofins Calscience LLC** 

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

n-Octacosane (Surr)

n-Octacosane (Surr)

n-Octacosane (Surr)

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

102

105

101

Lab Sample ID: LCSD 570 Matrix: Solid Analysis Batch: 189859	-189781/3-A				(	Client Sar	•		Control : be: Silica Prep Ba	Gel Cle	anup
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)			400	432.1		mg/Kg		108	76 - 126	5	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								

Lab Sample ID: LCSD 570 Matrix: Solid	)-189781/7-A			(	Client Sa			Control		
Analysis Batch: 189859						•	.op .yı	Prep Ba		
		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)		400	406.8		mg/Kg		102	71 - 139	0	20
	LCSD LCSD									
Surrogate	%Recovery Qualifier	l imits								

50 - 150

50 - 150

Lab Sample ID: 570-73	3067-23 MS							Clien	t Sample	ID: S-2.5-O3
Matrix: Solid							P	rep Typ	oe: Silica	<b>Gel Cleanup</b>
Analysis Batch: 18985	59								Prep B	atch: 189781
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Diesel (C10-C28)	140		499	607.5		mg/Kg	≎	94	37 - 175	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
n-Octacosane (Surr)	98		50 - 150							

Lab Sample ID: 570-73067 Matrix: Solid Analysis Batch: 189859	7-23 MS						P		e: Silica	ID: S-2.5-O3 Gel Cleanup atch: 189781
_	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
TPH as Motor Oil (C17-C44)	200		489	582.0		mg/Kg	<del>*</del>	79	71 - 174	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

50 - 150

Lab Sample ID: 570-73067 Matrix: Solid Analysis Batch: 189859	7-23 MSD						P		t Sample be: Silica Prep Ba	Gel Cle	anup
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	140		538	662.6		mg/Kg	<u></u>	97	37 - 175	9	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	106		50 - 150								

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## **QC Sample Results**

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-73067-23 MSD

**Matrix: Solid** 

**Analysis Batch: 189859** 

CI	ient S	ample	ID:	S-2.5-O3
Prep	Type:	<b>Silica</b>	Gel	Cleanup
	_	_		

**Prep Batch: 189781** 

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	200		478	633.0		mg/Kg	<u></u>	91	71 - 174	8	20

MSD MSD Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 100 50 - 150

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

## **GC VOA**

#### Analysis Batch: 187511

<b>Lab Sample ID</b> 570-73067-11	Client Sample ID S-10-L8	Prep Type Total/NA	Matrix Solid	Method NWTPH-Gx	Prep Batch 187594
570-73067-16	S-10-O7	Total/NA	Solid	NWTPH-Gx	187594
MB 570-187511/8	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-187511/6	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-187511/7	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Prep Batch: 187592**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-1	S-2.5-M9	Total/NA	Solid	5035	
570-73067-7	S-17.5-M9	Total/NA	Solid	5035	
570-73067-8	S-2.5-L8	Total/NA	Solid	5035	
570-73067-12	S-12.5-L8	Total/NA	Solid	5035	
570-73067-17	S-12.5-07	Total/NA	Solid	5035	
570-73067-19	S-10-P6	Total/NA	Solid	5035	
570-73067-20	S-12.5-P6	Total/NA	Solid	5035	
570-73067-23	S-2.5-O3	Total/NA	Solid	5035	
570-73067-25	S-7.5-O3	Total/NA	Solid	5035	
570-73067-29	S-2.5-P2	Total/NA	Solid	5035	
570-73067-31	S-7.5-P2	Total/NA	Solid	5035	
570-73067-32	S-2.5-O1	Total/NA	Solid	5035	
570-73067-33	S-5-O1	Total/NA	Solid	5035	
570-73067-34	S-7.5-O1	Total/NA	Solid	5035	

#### **Prep Batch: 187594**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-2	S-5-M9	Total/NA	Solid	5035	
570-73067-3	S-7.5-M9	Total/NA	Solid	5035	
570-73067-4	S-10-M9	Total/NA	Solid	5035	
570-73067-5	S-12.5-M9	Total/NA	Solid	5035	
570-73067-6	S-15-M9	Total/NA	Solid	5035	
570-73067-9	S-5-L8	Total/NA	Solid	5035	
570-73067-10	S-7.5-L8	Total/NA	Solid	5035	
570-73067-11	S-10-L8	Total/NA	Solid	5035	
570-73067-13	S-2.5-O7	Total/NA	Solid	5035	
570-73067-14	S-5-07	Total/NA	Solid	5035	
570-73067-15	S-7.5-O7	Total/NA	Solid	5035	
570-73067-16	S-10-O7	Total/NA	Solid	5035	
570-73067-18	S-5-P6	Total/NA	Solid	5035	
570-73067-24	S-5-O3	Total/NA	Solid	5035	
570-73067-26	S-2.5-P4	Total/NA	Solid	5035	
570-73067-27	S-5-P4	Total/NA	Solid	5035	
570-73067-28	S-7.5-P4	Total/NA	Solid	5035	
570-73067-30	S-5-P2	Total/NA	Solid	5035	

## **Analysis Batch: 187627**

<b>Lab Sample ID</b> 570-73067-1	Client Sample ID S-2.5-M9	Prep Type Total/NA	Matrix Solid	Method NWTPH-Gx	Prep Batch 187592
570-73067-12	S-12.5-L8	Total/NA	Solid	NWTPH-Gx	187592
MB 570-187627/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-187627/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-187627/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

## **GC VOA**

#### Analysis Batch: 187662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-21	Trip Blank	Total/NA	Water	NWTPH-Gx	
570-73067-22	EQB1	Total/NA	Water	NWTPH-Gx	
MB 570-187662/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 570-187662/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 570-187662/4	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MS	Matrix Spike	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	NWTPH-Gx	

#### **Analysis Batch: 187778**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-7	S-17.5-M9	Total/NA	Solid	NWTPH-Gx	187592
570-73067-8	S-2.5-L8	Total/NA	Solid	NWTPH-Gx	187592
570-73067-17	S-12.5-O7	Total/NA	Solid	NWTPH-Gx	187592
570-73067-19	S-10-P6	Total/NA	Solid	NWTPH-Gx	187592
570-73067-20	S-12.5-P6	Total/NA	Solid	NWTPH-Gx	187592
570-73067-23	S-2.5-O3	Total/NA	Solid	NWTPH-Gx	187592
570-73067-25	S-7.5-O3	Total/NA	Solid	NWTPH-Gx	187592
570-73067-29	S-2.5-P2	Total/NA	Solid	NWTPH-Gx	187592
570-73067-31	S-7.5-P2	Total/NA	Solid	NWTPH-Gx	187592
570-73067-32	S-2.5-O1	Total/NA	Solid	NWTPH-Gx	187592
570-73067-33	S-5-O1	Total/NA	Solid	NWTPH-Gx	187592
570-73067-34	S-7.5-O1	Total/NA	Solid	NWTPH-Gx	187592
MB 570-187778/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-187778/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-187778/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Analysis Batch: 188035**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-14	S-5-07	Total/NA	Solid	NWTPH-Gx	187594
570-73067-24	S-5-O3	Total/NA	Solid	NWTPH-Gx	187594
570-73067-26	S-2.5-P4	Total/NA	Solid	NWTPH-Gx	187594
570-73067-27	S-5-P4	Total/NA	Solid	NWTPH-Gx	187594
570-73067-30	S-5-P2	Total/NA	Solid	NWTPH-Gx	187594
MB 570-188035/38	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188035/35	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188035/36	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Analysis Batch: 188043**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-2	S-5-M9	Total/NA	Solid	NWTPH-Gx	187594
570-73067-3	S-7.5-M9	Total/NA	Solid	NWTPH-Gx	187594
570-73067-4	S-10-M9	Total/NA	Solid	NWTPH-Gx	187594
570-73067-6	S-15-M9	Total/NA	Solid	NWTPH-Gx	187594
570-73067-9	S-5-L8	Total/NA	Solid	NWTPH-Gx	187594
570-73067-13	S-2.5-O7	Total/NA	Solid	NWTPH-Gx	187594
570-73067-15	S-7.5-O7	Total/NA	Solid	NWTPH-Gx	187594
570-73067-18	S-5-P6	Total/NA	Solid	NWTPH-Gx	187594
MB 570-188043/36	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188043/33	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188043/34	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

## **GC VOA**

#### **Analysis Batch: 189371**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-5	S-12.5-M9	Total/NA	Solid	NWTPH-Gx	187594
570-73067-10	S-7.5-L8	Total/NA	Solid	NWTPH-Gx	187594
570-73067-28	S-7.5-P4	Total/NA	Solid	NWTPH-Gx	187594
MB 570-189371/6	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-189371/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-189371/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

## **GC Semi VOA**

#### **Analysis Batch: 187973**

Lab Sample ID MB 570-188018/1-A	Client Sample ID  Method Blank	Prep Type Silica Gel Cleanup	Matrix Water	Method NWTPH-Dx	Prep Batch 188018
LCS 570-188018/2-A	Lab Control Sample	Silica Gel Cleanup	Water	NWTPH-Dx	188018
LCS 570-188018/4-A	Lab Control Sample	Silica Gel Cleanup	Water	NWTPH-Dx	188018
LCSD 570-188018/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	NWTPH-Dx	188018
LCSD 570-188018/5-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	NWTPH-Dx	188018

#### **Prep Batch: 188018**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-22	EQB1	Silica Gel Cleanup	Water	3510C SGC	
MB 570-188018/1-A	Method Blank	Silica Gel Cleanup	Water	3510C SGC	
LCS 570-188018/2-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCS 570-188018/4-A	Lab Control Sample	Silica Gel Cleanup	Water	3510C SGC	
LCSD 570-188018/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	
LCSD 570-188018/5-A	Lab Control Sample Dup	Silica Gel Cleanup	Water	3510C SGC	

#### **Analysis Batch: 189384**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-22	EQB1	Silica Gel Cleanup	Water	NWTPH-Dx	188018

#### **Prep Batch: 189773**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-1	S-2.5-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-2	S-5-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-2 - DL	S-5-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-3 - DL	S-7.5-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-3	S-7.5-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-4	S-10-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-4 - DL	S-10-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-5	S-12.5-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-6	S-15-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-7	S-17.5-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-8	S-2.5-L8	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-9 - DL	S-5-L8	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-9	S-5-L8	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-10	S-7.5-L8	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-11	S-10-L8	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-12	S-12.5-L8	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-13	S-2.5-O7	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-14	S-5-O7	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-15	S-7.5-07	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc Job ID: 570-73067-1 Project/Site: ExxonMobil ADC/0314476040

## GC Semi VOA (Continued)

#### Prep Batch: 189773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-16	S-10-07	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-17	S-12.5-O7	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-18	S-5-P6	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-19	S-10-P6	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-20	S-12.5-P6	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-189773/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189773/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189773/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189773/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189773/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-7 MS	S-17.5-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-7 MS	S-17.5-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-7 MSD	S-17.5-M9	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-7 MSD	S-17.5-M9	Silica Gel Cleanup	Solid	3550C SGC	

#### **Prep Batch: 189781**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-23	S-2.5-O3	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-24 - DL	S-5-O3	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-24	S-5-O3	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-25	S-7.5-O3	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-26	S-2.5-P4	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-27	S-5-P4	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-28	S-7.5-P4	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-29	S-2.5-P2	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-30 - DL	S-5-P2	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-30	S-5-P2	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-31	S-7.5-P2	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-32	S-2.5-O1	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-33	S-5-O1	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-34	S-7.5-O1	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-189781/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189781/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189781/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189781/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189781/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-23 MS	S-2.5-O3	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-23 MS	S-2.5-O3	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-23 MSD	S-2.5-O3	Silica Gel Cleanup	Solid	3550C SGC	
570-73067-23 MSD	S-2.5-O3	Silica Gel Cleanup	Solid	3550C SGC	

### **Analysis Batch: 189785**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-1	S-2.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-2	S-5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-2 - DL	S-5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-3	S-7.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-3 - DL	S-7.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-4	S-10-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-4 - DL	S-10-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-5	S-12.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773

**Eurofins Calscience LLC** 

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

## GC Semi VOA (Continued)

### **Analysis Batch: 189785 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-6	S-15-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-7	S-17.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-8	S-2.5-L8	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-9	S-5-L8	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-9 - DL	S-5-L8	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-10	S-7.5-L8	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-11	S-10-L8	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-12	S-12.5-L8	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-13	S-2.5-O7	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-14	S-5-O7	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-15	S-7.5-07	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-16	S-10-O7	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-17	S-12.5-07	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-18	S-5-P6	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-19	S-10-P6	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-20	S-12.5-P6	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-24 - DL	S-5-O3	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-30 - DL	S-5-P2	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
MB 570-189773/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
LCS 570-189773/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
LCS 570-189773/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
LCSD 570-189773/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
LCSD 570-189773/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-7 MS	S-17.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-7 MS	S-17.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-7 MSD	S-17.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-7 MSD	S-17.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773

#### **Analysis Batch: 189859**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-23	S-2.5-O3	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-24	S-5-O3	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-25	S-7.5-O3	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-26	S-2.5-P4	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-27	S-5-P4	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-28	S-7.5-P4	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-29	S-2.5-P2	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-30	S-5-P2	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-31	S-7.5-P2	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-32	S-2.5-O1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-33	S-5-O1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-34	S-7.5-O1	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
MB 570-189781/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
LCS 570-189781/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
LCS 570-189781/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
LCSD 570-189781/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
LCSD 570-189781/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-23 MS	S-2.5-O3	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-23 MS	S-2.5-O3	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-23 MSD	S-2.5-O3	Silica Gel Cleanup	Solid	NWTPH-Dx	189781
570-73067-23 MSD	S-2.5-O3	Silica Gel Cleanup	Solid	NWTPH-Dx	189781

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Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-M9

Date Collected: 10/14/21 09:20 Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-1

**Matrix: Solid** 

**Matrix: Solid** 

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.951 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC53		1	5 g	5 mL	187627	10/20/21 03:13	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/27/21 22:00	N1A	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: S-5-M9** Lab Sample ID: 570-73067-2

Date Collected: 10/14/21 09:25

Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.832 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		2000	5 mL	5 mL	188043	10/21/21 08:58	A9VE	ECL 2
	Instrumer	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.46 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/27/21 22:21	N1A	ECL 1
	Instrumer	t ID: GC48								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.46 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			189785	10/28/21 13:36	N1A	ECL 1
	Instrumer	t ID: GC48								

Lab Sample ID: 570-73067-3 **Client Sample ID: S-7.5-M9** Date Collected: 10/14/21 09:30 **Matrix: Solid** 

Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.288 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1000	5 mL	5 mL	188043	10/21/21 08:34	A9VE	ECL 2
	Instrumer	nt ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			7.65 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			189785	10/27/21 22:42	N1A	ECL 1
	Instrumer	nt ID: GC48								
Silica Gel Cleanup	Prep	3550C SGC	DL		7.65 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	20			189785	10/28/21 13:57	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-10-M9 Lab Sample ID: 570-73067-4 Date Collected: 10/14/21 09:35

Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.799 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		2500	5 mL	5 mL	188043	10/21/21 12:00	A9VE	ECL 2
	Instrumer	it ID: GC1								

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-10-M9

Date Collected: 10/14/21 09:35 Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550C SGC			5.01 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx nt ID: GC48		5			189785	10/27/21 23:02	N1A	ECL 1
Silica Gel Cleanup	Prep	3550C SGC	DL		5.01 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			189785	10/28/21 14:18	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-12.5-M9 Lab Sample ID: 570-73067-5 **Matrix: Solid** 

Date Collected: 10/14/21 09:40 Date Received: 10/15/21 10:10

Batch Dil Initial Batch Batch Final Prepared Method **Prep Type** Type Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 187594 10/19/21 12:48 YZL3 ECL 2 Prep 4.851 g 5 mL Total/NA Analysis **NWTPH-Gx** 250 5 mL 5 mL 189371 10/26/21 22:08 P1R ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 5.09 g 10 mL 189773 10/27/21 14:23 N5Y3 ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 5 189785 10/27/21 23:23 N1A ECL 1 Instrument ID: GC48

Client Sample ID: S-15-M9 Lab Sample ID: 570-73067-6 Date Collected: 10/14/21 09:45 **Matrix: Solid** 

Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		Lab
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	
Total/NA	Prep	5035			4.506 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	188043	10/21/21 16:46	A9VE	ECL 2
	Instrumer	nt ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			6.26 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/27/21 23:45	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-17.5-M9 Lab Sample ID: 570-73067-7

Date Collected: 10/14/21 09:50 Date Received: 10/15/21 10:10

	Batch	Batch	3atch	Dil Factor	Initial	Final	Batch	Prepared		Lab
Prep Type	Type	Method	Run		Amount	Amount	Number	or Analyzed	Analyst	
Total/NA	Prep	5035			6.976 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187778	10/20/21 21:02	P1R	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.60 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 00:05	N1A	ECL 1
	Instrumen	t ID: GC48								

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-L8

Date Collected: 10/14/21 09:55 Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-8

Lab Sample ID: 570-73067-10

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Prep	5035			5.098 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187778	10/20/21 21:26	P1R	ECL 2
Prep	3550C SGC			10.13 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Analysis	NWTPH-Dx		2			189785	10/28/21 00:25	N1A	ECL 1
	Type Prep Analysis Instrumer Prep Analysis	TypeMethodPrep5035AnalysisNWTPH-GxInstrument ID:GC53Prep3550C SGC	Type Method Run  Prep 5035  Analysis NWTPH-Gx Instrument ID: GC53  Prep 3550C SGC Analysis NWTPH-Dx	Type         Method         Run         Factor           Prep         5035           1            Analysis         NWTPH-Gx             1           Instrument ID:             GC53           Prep             3550C SGC               Analysis             NWTPH-Dx             2	Type         Method         Run         Factor         Amount           Prep         5035         5.098 g           Analysis         NWTPH-Gx         1         5 g           Instrument ID:         GC53           Prep         3550C SGC         10.13 g           Analysis         NWTPH-Dx         2	Type         Method         Run         Factor         Amount         Amount           Prep         5035         5.098 g         5 g           Analysis         NWTPH-Gx         1 5 g         5 mL           Instrument ID: GC53           Prep         3550C SGC         10.13 g         10 mL           Analysis         NWTPH-Dx         2	Type         Method         Run         Factor         Amount         Amount         Number           Prep         5035         5.098 g         5 g         187592           Analysis         NWTPH-Gx         1 5 g         5 mL         187778           Instrument ID: GC53         8750C SGC         10.13 g         10 mL         189773           Analysis         NWTPH-Dx         2         189785	Type         Method         Run         Factor         Amount         Amount         Number         or Analyzed           Prep         5035         5.098 g         5 g         187592         10/19/21 12:47           Analysis         NWTPH-Gx         1 5 g         5 mL         187778         10/20/21 21:26           Instrument ID:         GC53           Prep         3550C SGC         10.13 g         10 mL         189773         10/27/21 14:23           Analysis         NWTPH-Dx         2         189785         10/28/21 00:25	Type         Method         Run         Factor         Amount         Amount         Number         or Analyzed         Analyst           Prep         5035         5.098 g         5 g         187592         10/19/21 12:47         YZL3           Analysis         NWTPH-Gx         1 5 g         5 mL         187778         10/20/21 21:26         P1R           Instrument ID:         GC53           Prep         3550C SGC         10.13 g         10 mL         189773         10/27/21 14:23         N5Y3           Analysis         NWTPH-Dx         2         189785         10/28/21 00:25         N1A

**Client Sample ID: S-5-L8** Lab Sample ID: 570-73067-9

Date Collected: 10/14/21 10:00 Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.79 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC1		2500	5 mL	5 mL	188043	10/21/21 09:22	A9VE	ECL 2
Silica Gel Cleanup Silica Gel Cleanup	Prep	3550C SGC NWTPH-Dx		10	9.97 g	10 mL	189773 189785	10/27/21 14:23 10/28/21 00:46		ECL 1
Silica Gei Cleariup	Analysis Instrumen	t ID: GC48					109700	10/26/21 00:40	IN IA	ECL I
Silica Gel Cleanup	Prep	3550C SGC	DL		9.97 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx at ID: GC48	DL	20			189785	10/28/21 14:38	N1A	ECL 1

Client Sample ID: S-7.5-L8

Date Collected: 10/14/21 10:05 Date Received: 10/15/21 10:10

Bat	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.422 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	189371	10/26/21 22:32	P1R	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			5.89 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/28/21 01:07	N1A	ECL 1
	Instrumer	t ID: GC48								

**Client Sample ID: S-10-L8** Lab Sample ID: 570-73067-11 Date Collected: 10/14/21 10:10 **Matrix: Solid** 

Date Received: 10/15/21 10:10

В	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.76 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC57		20	5 mL	5 mL	187511	10/19/21 18:41	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			4.31 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/28/21 02:08	N1A	ECL 1
	Instrumen	t ID: GC48								

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Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-12.5-L8

Date Collected: 10/14/21 10:15 Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-12

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.19 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC53		1	5 g	5 mL	187627	10/20/21 04:49	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			5.01 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 02:30	N1A	ECL 1
	Instrumer	nt ID: GC48								

Lab Sample ID: 570-73067-13

**Matrix: Solid** 

Date Collected: 10/14/21 10:30 Date Received: 10/15/21 10:10

Client Sample ID: S-2.5-O7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.762 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	188043	10/21/21 07:46	A9VE	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			5.60 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/28/21 02:50	N1A	ECL 1
	Instrumen	it ID: GC48								

Lab Sample ID: 570-73067-14 **Client Sample ID: S-5-07** 

Date Collected: 10/14/21 10:35 **Matrix: Solid** Date Received: 10/15/21 10:10

E	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.716 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		100	5 mL	5 mL	188035	10/21/21 09:28	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			7.64 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189785	10/28/21 03:11	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-O7 Lab Sample ID: 570-73067-15

Date Collected: 10/14/21 10:40 **Matrix: Solid** Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.756 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	188043	10/21/21 02:04	A9VE	ECL 2
	Instrumen	t ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			5.05 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/28/21 03:31	N1A	ECL 1
	Instrumen	t ID: GC48								

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Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Instrument ID: GC48

Client Sample ID: S-10-O7

Date Collected: 10/14/21 10:45 Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-16

Matrix: Solid

Matrix: Solid

Batch Batch Dil Initial Batch Final Prepared Method Number or Analyzed **Prep Type** Type Run **Factor Amount** Amount Analyst Lab 4.86 g Total/NA 5035 187594 10/19/21 12:48 YZL3 ECL 2 Prep 5 mL Total/NA ECL 2 Analysis **NWTPH-Gx** 5 mL 187511 10/19/21 19:05 P1R 20 5 mL Instrument ID: GC57 Silica Gel Cleanup Prep 3550C SGC 9.66 g 10 mL 189773 10/27/21 14:23 N5Y3 ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 10 189785 10/28/21 03:52 N1A ECL 1

Client Sample ID: S-12.5-O7 Lab Sample ID: 570-73067-17

Date Collected: 10/14/21 10:50 Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.78 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187778	10/20/21 14:24	P1R	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			4.57 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 04:14	N1A	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-5-P6 Lab Sample ID: 570-73067-18 **Matrix: Solid** 

Date Collected: 10/14/21 10:55 Date Received: 10/15/21 10:10

Final Batch Batch Dil Initial Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.97 g 5 mL 187594 10/19/21 12:48 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 500 5 mL 5 mL 188043 10/21/21 01:40 A9VE ECL 2 Instrument ID: GC1 Silica Gel Cleanup 3550C SGC 10/27/21 14:23 N5Y3 ECL 1 Prep 6.19 g 10 mL 189773 Silica Gel Cleanup 10 Analysis NWTPH-Dx 189785 10/28/21 04:35 N1A ECL 1 Instrument ID: GC48

Client Sample ID: S-10-P6 Lab Sample ID: 570-73067-19 **Matrix: Solid** 

Date Collected: 10/14/21 11:00 Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.124 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187778	10/20/21 13:12	P1R	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.51 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 04:55	N1A	ECL 1
	Instrumen	t ID: GC48								

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-12.5-P6

Date Collected: 10/14/21 11:05 Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-20

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.711 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187778	10/20/21 14:47	P1R	ECL 2
	Instrumer	nt ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			4.96 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 05:16	N1A	ECL 1
	Instrumer	nt ID: GC48								

**Client Sample ID: Trip Blank** 

Date Collected: 10/14/21 00:00

Date Received: 10/15/21 10:10

Lab Sample ID: 5	570-73067-21
-	<b>Matrix: Water</b>

Batch Batch Dil Initial Batch Final Prepared Method Number **Prep Type** Type Run **Factor** Amount Amount or Analyzed Analyst Lab Total/NA Analysis NWTPH-Gx 187662 10/20/21 00:28 P1R ECL 2 5 mL 5 mL Instrument ID: GC25

**Client Sample ID: EQB1** Lab Sample ID: 570-73067-22 Date Collected: 10/14/21 00:00 **Matrix: Water** 

Date Received: 10/15/21 10:10

Type Analysis Instrumen	Batch  Method  NWTPH-Gx at ID: GC25	Run	Factor	Amount 5 mL	Final Amount 5 mL	Batch Number 187662	Prepared or Analyzed 10/20/21 00:57	Analyst P1R	Lab ECL 2
Prep	3510C SGC			259.3 mL	2.5 mL	188018	10/20/21 16:00	UFLU	ECL 1
Analysis	NWTPH-Dx		1			189384	10/26/21 17:52	UJ3K	ECL 1
	Type Analysis Instrumen Prep	Type Method Analysis NWTPH-Gx Instrument ID: GC25 Prep 3510C SGC	Type Method Run  Analysis NWTPH-Gx Instrument ID: GC25  Prep 3510C SGC	Type Method Run Factor Analysis NWTPH-Gx 1 Instrument ID: GC25 Prep 3510C SGC	Type         Method         Run         Factor         Amount           Analysis         NWTPH-Gx         1         5 mL           Instrument ID:         GC25         CC25           Prep         3510C SGC         259.3 mL	Type         Method         Run         Factor         Amount         Amount           Analysis         NWTPH-Gx         1         5 mL         5 mL           Instrument ID:         GC25         259.3 mL         2.5 mL	Type         Method         Run         Factor         Amount         Amount         Number           Analysis         NWTPH-Gx         1         5 mL         5 mL         187662           Instrument ID:         GC25           Prep         3510C SGC         259.3 mL         2.5 mL         188018	Type         Method         Run         Factor         Amount         Amount         Number         or Analyzed           Analysis         NWTPH-Gx         1         5 mL         5 mL         187662         10/20/21 00:57           Instrument ID:         GC25           Prep         3510C SGC         259.3 mL         2.5 mL         188018         10/20/21 16:00	Type         Method         Run         Factor         Amount         Amount         Number         or Analyzed         Analyst           Analysis         NWTPH-Gx         1         5 mL         5 mL         187662         10/20/21 00:57         P1R           Instrument ID:         GC25           Prep         3510C SGC         259.3 mL         2.5 mL         188018         10/20/21 16:00         UFLU

Client Sample ID: S-2.5-O3 Lab Sample ID: 570-73067-23

Date Collected: 10/14/21 11:10

Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.564 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187778	10/20/21 15:11	P1R	ECL 2
	Instrumer	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.99 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/27/21 22:36	A1W	ECL 1
	Instrumer	t ID: GC50								

Lab Sample ID: 570-73067-24 Client Sample ID: S-5-O3 Date Collected: 10/14/21 11:15 **Matrix: Solid** 

Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.158 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	188035	10/21/21 11:03	A9VE	ECL 2
	Instrumer	t ID: GC53								

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**Matrix: Solid** 

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

**Client Sample ID: S-5-O3** 

Date Collected: 10/14/21 11:15 Date Received: 10/15/21 10:10 Lab Sample ID: 570-73067-24

Lab Sample ID: 570-73067-25

Lab Sample ID: 570-73067-26

Lab Sample ID: 570-73067-27

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Silica Gel Cleanup	Prep	3550C SGC	DL		8.66 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx at ID: GC48	DL	10			189785	10/28/21 16:00	N1A	ECL 1
Silica Gel Cleanup	Prep	3550C SGC			8.66 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumer	NWTPH-Dx		1			189859	10/27/21 22:55	A1W	ECL 1

Client Sample ID: S-7.5-O3
Date Collected: 10/14/21 11:20

Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.955 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187778	10/20/21 13:36	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.20 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/27/21 23:15	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-P4
Date Collected: 10/14/21 11:25

Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.943 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		200	5 mL	5 mL	188035	10/21/21 10:40	A9VE	ECL 2
	Instrumer	nt ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.74 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189859	10/27/21 23:36	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-P4

Date Collected: 10/14/21 11:30

Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.777 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	188035	10/21/21 11:27	A9VE	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.76 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/27/21 23:56	A1W	ECL 1
	Instrumen	it ID: GC50								

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Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-P4

Client: Cardno, Inc

Date Collected: 10/14/21 11:35 Date Received: 10/15/21 10:10

Lab Sample ID: 570-73067-28

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.167 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	189371	10/26/21 22:56	P1R	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189859	10/28/21 00:15	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-P2 Lab Sample ID: 570-73067-29 Date Collected: 10/14/21 11:40

Date Received: 10/15/21 10:10

Dil Initial Final Batch Batch Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 6.733 g 5 g 187592 10/19/21 12:47 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 187778 10/20/21 14:00 P1R ECL 2 Instrument ID: GC53 Silica Gel Cleanup 3550C SGC 10.31 g 10 mL 189781 10/27/21 14:52 N5Y3 ECL 1 Silica Gel Cleanup NWTPH-Dx 5 189859 10/28/21 00:35 A1W ECL 1 Analysis

Client Sample ID: S-5-P2 Lab Sample ID: 570-73067-30

Date Collected: 10/14/21 11:45 Date Received: 10/15/21 10:10

Instrument ID: GC50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.48 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC53		500	5 mL	5 mL	188035	10/21/21 07:29	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC	DL		9.73 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx at ID: GC48	DL	10			189785	10/28/21 16:20	N1A	ECL 1
Silica Gel Cleanup	Prep	3550C SGC			9.73 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis Instrumen	NWTPH-Dx		2	-		189859	10/28/21 00:56	A1W	ECL 1

Lab Sample ID: 570-73067-31 Client Sample ID: S-7.5-P2

Date Collected: 10/14/21 11:50 Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.628 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187778	10/20/21 22:39	P1R	ECL 2
	Instrumen	t ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.32 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			189859	10/28/21 01:17	A1W	ECL 1
	Instrumen	t ID: GC50								

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Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-O1

Lab Sample ID: 570-73067-32

**Matrix: Solid** 

Date Collected: 10/14/21 11:55 Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.017 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187778	10/20/21 23:03	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.43 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189859	10/28/21 01:36	A1W	ECL 1
	Instrumer	it ID: GC50								

Client Sample ID: S-5-O1 Lab Sample ID: 570-73067-33

Matrix: Solid

Date Collected: 10/14/21 12:00 Date Received: 10/15/21 10:10

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 5 g Prep 5035 6.112 g 187592 10/19/21 12:47 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 187778 10/20/21 23:27 P1R ECL 2 Instrument ID: GC53 Silica Gel Cleanup 3550C SGC 10.17 g 10 mL 189781 10/27/21 14:52 N5Y3 ECL 1 Silica Gel Cleanup NWTPH-Dx 189859 10/28/21 02:37 A1W ECL 1 Analysis 5 Instrument ID: GC50

Client Sample ID: S-7.5-O1 Lab Sample ID: 570-73067-34

Date Collected: 10/14/21 12:05 Matrix: Solid

Date Received: 10/15/21 10:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.054 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC53		1	5 g	5 mL	187778	10/20/21 23:51	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 02:56	A1W	ECL 1
	Instrumer	t ID: GC50								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

## **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Washington	State	C916-18	10-12-22

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## **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Method **Method Description** Protocol Laboratory NWTPH-Gx Northwest - Volatile Petroleum Products (GC) NWTPH ECL 2 **NWTPH** NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC) ECL 1 3510C SGC Liquid-Liquid Extraction (Separatory Funnel) SW846 ECL 1 3550C SGC Ultrasonic Extraction SW846 ECL 1 5030C Purge and Trap SW846 ECL 2 5035 Closed System Purge and Trap SW846 ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-73067-1

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Everett Bulk Plant

Site Name

7440 LINCOLN WAY

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Cardno

Client: Cardno, Inc

Job Number: 570-73067-1

Login Number: 73067 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Question Answer Comment

Radioactivity wasn't checked or is </= background as measured by a survey meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.

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# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-73077-1

Client Project/Site: ExxonMobil ADC/0314476040

Revision: 1

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Sonia

Authorized for release by: 11/17/2021 1:24:59 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS .....

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# **Sample Summary**

Client: Cardno, Inc Job ID: 570-73077-1

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-73077-1	S-5-Q5	Solid	10/15/21 11:15	10/16/21 12:00
570-73077-2	S-7.5-Q5	Solid	10/15/21 11:20	10/16/21 12:00
570-73077-3	S-7.5-Q5 DUP	Solid	10/15/21 11:25	10/16/21 12:00
570-73077-4	S-7.5-R5A	Solid	10/15/21 12:15	10/16/21 12:00
570-73077-5	S-5-R4	Solid	10/15/21 12:20	10/16/21 12:00
570-73077-6	S-7.5-R4	Solid	10/15/21 12:25	10/16/21 12:00
570-73077-7	Trip Blank	Water	10/15/21 00:00	10/16/21 12:00

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# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-73077-1

Project/Site: ExxonMobil ADC/0314476040

# Glossary

QC

RER

RL RPD

TEF

TEQ TNTC **Quality Control** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Cioccary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

## Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73077-1

Job ID: 570-73077-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-73077-1

#### Comments

No additional comments.

#### Revision

The report being provided is a revision of the original report sent on 10/29/2021. The report (revision 1) is being revised due to: Sample IDs were listed incorrectly on the COC for samples S-5QS (570-73077-1), S-7.5-QS (570-73077-2), S-7.5-QS DUP (570-73077-3) and S-7.5-R5 (570-73077-4). Sample IDs have been corrected to S-5Q5, S-7.5-Q5, DUP and S-7.5-R5A respectively.

#### Receipt

The samples were received on 10/16/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.2° C.

#### **GC VOA**

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-187511. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **General Chemistry**

Method Moisture: The sample duplicate (DUP) precision for analytical batch 570-187402 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# **Detection Summary**

Client: Cardno, Inc Job ID: 570-73077-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-5-Q5	•				Lab Sample ID: 5	70-73077-1
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1.5		0.25	mg/Kg	1 🔅 NWTPH-Gx	Total/NA
TPH as Motor Oil Range	68		31	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-0	<b>Q</b> 5				Lab Sample ID: 5	70-73077-2
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.45		0.21	mg/Kg	1 ☼ NWTPH-Gx	Total/NA
Client Sample ID: S-7.5-0	Q5 DUP				Lab Sample ID: 5	70-73077-3
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.44		0.20	mg/Kg	1 ☆ NWTPH-Gx	Total/NA
Client Sample ID: S-7.5-F	R5A				Lab Sample ID: 5	70-73077-4
– Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	2.1		0.21	mg/Kg	1 🌣 NWTPH-Gx	Total/NA
Client Sample ID: S-5-R4	1				Lab Sample ID: 5	70-73077-5
 Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	4.7		0.26	mg/Kg	1	Total/NA
TPH as Motor Oil Range	40		6.3	mg/Kg	1 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: S-7.5-F	R4				Lab Sample ID: 5	70-73077-6
Analyte	Result	Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	1.7		0.21	mg/Kg	1 ☼ NWTPH-Gx	Total/NA
TPH as Motor Oil Range	260		29	mg/Kg	5 ☆ NWTPH-Dx	Silica Gel Cleanup
Client Sample ID: Trip BI	ank				Lab Sample ID: 5	70-73077-7

No Detections.

This Detection Summary does not include radiochemical test results.

11/17/2021 (Rev. 1)

Lab Sample ID: 570-73077-1 **Client Sample ID: S-5-Q5** 

Date Collected: 10/15/21 11:15 **Matrix: Solid** Date Received: 10/16/21 12:00

Method: NWTPH-Gx - North	west - Volatile	Petroleur	n Products	(GC)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.5		0.25	mg/Kg	<del>*</del>	10/18/21 19:29	10/19/21 15:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150			10/18/21 19:29	10/19/21 15:30	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		31	mg/Kg	₩	10/27/21 19:28	10/28/21 08:24	- 5
TPH as Motor Oil Range	68		31	mg/Kg	₩	10/27/21 19:28	10/28/21 08:24	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		50 - 150			10/27/21 19:28	10/28/21 08:24	

Lab Sample ID: 570-73077-2 **Client Sample ID: S-7.5-Q5** Date Collected: 10/15/21 11:20 **Matrix: Solid** 

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - Nort	hwest - Volatile	Petroleur	n Products (GC	<b>3)</b>				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.45		0.21	mg/Kg	<u></u>	10/18/21 19:29	10/19/21 15:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			10/18/21 19:29	10/19/21 15:54	

Metho	od: NWTPH-Dx - North\	vest - Semi-V	olatile Pet	roleum Prod	lucts (GC) - Silic	a Gel (	Cleanup		
Analyt	e	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as	s Diesel Range	ND		6.3	mg/Kg	<u></u>	10/27/21 19:28	10/28/21 09:27	1
TPH as	s Motor Oil Range	ND		6.3	mg/Kg	₽	10/27/21 19:28	10/28/21 09:27	1
Surrog n-Octa	nate cosane (Surr)		Qualifier	Limits 50 - 150			<b>Prepared</b> 10/27/21 19:28	Analyzed 10/28/21 09:27	Dil Fac

Client Sample ID: S-7.5-Q5 DUP Lab Sample ID: 570-73077-3 Date Collected: 10/15/21 11:25 **Matrix: Solid** 

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - North	nwest - Volatile	Petroleu	m Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.44		0.20	mg/Kg	☆	10/18/21 19:29	10/19/21 16:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150			10/18/21 19:29	10/19/21 16:17	1

Method: NWTPH-Dx - Nor	thwest - Semi-Volatile Pe	troleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	5.6	mg/Kg	₽	10/27/21 19:28	10/28/21 09:47	1
TPH as Motor Oil Range	ND	5.6	mg/Kg	☼	10/27/21 19:28	10/28/21 09:47	1
Surrogate n-Octacosane (Surr)	%Recovery Qualifier	Limits 50 - 150			Prepared 10/27/21 19:28	Analyzed 10/28/21 09:47	Dil Fac

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-R5A

Date Collected: 10/15/21 12:15 Date Received: 10/16/21 12:00

Lab Sample ID: 570-73077-4

**Matrix: Solid** 

Job ID: 570-73077-1

Method: NWTPH-Gx - North	west - Volatile Pe	etroleum Products (G	iC)				
Analyte	Result Qu	ıalifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2.1	0.21	mg/Kg	<del>-</del>	10/18/21 19:29	10/19/21 17:27	1
Surrogate	%Recovery Qu	ualifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125	50 - 150			10/18/21 19:29	10/19/21 17:27	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range ND 6.0 mg/Kg 10/27/21 19:28 10/28/21 10:08 TPH as Motor Oil Range ND 6.0 mg/Kg 10/27/21 19:28 10/28/21 10:08 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate n-Octacosane (Surr) 50 - 150 10/27/21 19:28 10/28/21 10:08 109

Client Sample ID: S-5-R4 Lab Sample ID: 570-73077-5 **Matrix: Solid** 

Date Collected: 10/15/21 12:20

Date Received: 10/16/21 12:00

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
TPH as Gasoline (C4-C13)	4.7		0.26	mg/Kg	<del>-</del>	10/18/21 19:29	10/19/21 16:40	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	71		50 - 150			10/18/21 19:29	10/19/21 16:40	

Method: NWTPH-Dx - North	ethod: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
TPH as Diesel Range	ND		6.3	mg/Kg	<u></u>	10/27/21 19:28	10/28/21 10:30	1				
TPH as Motor Oil Range	40		6.3	mg/Kg	₩	10/27/21 19:28	10/28/21 10:30	1				
Surrogate n-Octacosane (Surr)	%Recovery	Qualifier	Limits 50 - 150			<b>Prepared</b> 10/27/21 19:28	Analyzed 10/28/21 10:30	Dil Fac				

Client Sample ID: S-7.5-R4 Lab Sample ID: 570-73077-6 Date Collected: 10/15/21 12:25 **Matrix: Solid** 

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - North	west - Volatile	Petroleu	m Products (GC	<b>C</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.7		0.21	mg/Kg	☼	10/18/21 19:29	10/19/21 17:04	1
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 90	Qualifier	Limits 50 - 150			<b>Prepared</b> 10/18/21 19:29	Analyzed 10/19/21 17:04	Dil Fac

Method: NWTPH-Dx - Nort	Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup											
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac					
TPH as Diesel Range	ND ND	29	mg/Kg	<del>*</del>	10/27/21 19:28	10/28/21 10:50	5					
TPH as Motor Oil Range	260	29	mg/Kg	☼	10/27/21 19:28	10/28/21 10:50	5					
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac					
n-Octacosane (Surr)	107	50 - 150			10/27/21 19:28	10/28/21 10:50	5					

# **Client Sample Results**

Client: Cardno, Inc Job ID: 570-73077-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: Trip Blank Lab Sample ID: 570-73077-7

Date Collected: 10/15/21 00:00 Matrix: Water

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - Northy	west - Volatile Petroleum Products (GC)			<b>;</b> )				
Analyte TPH as Gasoline (C4-C13)	Result	Qualifier	RL	Unit ug/L	<u>D</u>	Prepared	Analyzed 10/20/21 01:26	Dil Fac
,		0		ug/L		D		D# 5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56		50 - 150				10/20/21 01:26	1

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Client: Cardno, Inc Job ID: 570-73077-1

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Solid Prep Type: Total/NA** 

			Percent Surrogate Reco
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-73077-1	S-5-Q5	60	
570-73077-2	S-7.5-Q5	70	
570-73077-3	S-7.5-Q5 DUP	68	
570-73077-4	S-7.5-R5A	125	
570-73077-5	S-5-R4	71	
570-73077-6	S-7.5-R4	90	
LCS 570-187511/6	Lab Control Sample	100	
LCSD 570-187511/7	Lab Control Sample Dup	104	
MB 570-187511/10	Method Blank	82	
Surrogate Legend			
BFB = 4-Bromofluorok	penzene (Surr)		

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)** 

**Matrix: Water** Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-72969-D-3 MS	Matrix Spike	89	
570-72969-D-3 MSD	Matrix Spike Duplicate	91	
570-73077-7	Trip Blank	56	
LCS 570-187662/3	Lab Control Sample	91	
LCSD 570-187662/4	Lab Control Sample Dup	87	
MB 570-187662/5	Method Blank	56	
Surrogate Legend			

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Matrix: Solid Prep Type: Silica Gel Cleanup** 

		OTCSN	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(50-150)	
570-73077-1	S-5-Q5	105	
570-73077-2	S-7.5-Q5	109	
570-73077-2 MS	S-7.5-Q5	109	
570-73077-2 MS	S-7.5-Q5	114	
570-73077-2 MSD	S-7.5-Q5	111	
570-73077-2 MSD	S-7.5-Q5	110	
570-73077-3	S-7.5-Q5 DUP	107	
570-73077-4	S-7.5-R5A	109	
570-73077-5	S-5-R4	110	
570-73077-6	S-7.5-R4	107	
LCS 570-189870/2-A	Lab Control Sample	112	
LCS 570-189870/6-A	Lab Control Sample	112	
LCSD 570-189870/3-A	Lab Control Sample Dup	112	
LCSD 570-189870/7-A	Lab Control Sample Dup	114	
MB 570-189870/1-A	Method Blank	108	

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# **Surrogate Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

OTCSN = n-Octacosane (Surr)

Job ID: 570-73077-1

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Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-187511/10 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Solid** 

Client: Cardno, Inc

Analysis Batch: 187511

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 0.25 mg/Kg 10/19/21 14:40

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 82 50 - 150 10/19/21 14:40

Lab Sample ID: LCS 570-187511/6 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 187511

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Gasoline (C4-C13) 2.12 2.103 mg/Kg 99 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 100

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-187511/7 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 187511** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit mg/Kg TPH as Gasoline (C4-C13) 2.12 2.140 101 77 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 104 50 - 150

Lab Sample ID: MB 570-187662/5 **Client Sample ID: Method Blank** 

**Matrix: Water** 

**Analysis Batch: 187662** 

MB MB Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 100 ug/L 10/19/21 18:52

MB MB

Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 50 - 150 10/19/21 18:52 56

Lab Sample ID: LCS 570-187662/3

**Matrix: Water** 

**Analysis Batch: 187662** 

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit %Rec 2099 TPH as Gasoline (C4-C13) 2130 ug/L 99 76 - 128

LCS LCS

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 91

**Eurofins Calscience LLC** 

**Prep Type: Total/NA** 

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Project/Site: ExxonMobil ADC/0314476040

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570-187662/4 Client Sample ID: Lab Control Sample Dup

**Matrix: Water** 

Client: Cardno, Inc

**Analysis Batch: 187662** 

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec TPH as Gasoline (C4-C13) 2130 2111 ug/L 99 76 - 128 10

LCSD LCSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: 570-72969-D-3 MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 69 - 132 TPH as Gasoline (C4-C13) ND 2130 2070 ug/L 97

MS MS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 89 50 - 150

**Client Sample ID: Matrix Spike Duplicate** Lab Sample ID: 570-72969-D-3 MSD

**Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 187662** 

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) ND 2130 2120 ug/L 100 69 - 132

MSD MSD

Qualifier Surrogate %Recovery Limits 4-Bromofluorobenzene (Surr) 91 50 - 150

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-189870/1-A Client Sample ID: Method Blank

**Matrix: Solid** Prep Type: Silica Gel Cleanup Analysis Batch: 189785 **Prep Batch: 189870** MB MB

**Analyte** Result Qualifier RL Unit D Prepared Analyzed Dil Fac TPH as Diesel Range ND 5.0 mg/Kg 10/27/21 19:28 10/27/21 21:19 TPH as Motor Oil Range ND 5.0 mg/Kg 10/27/21 19:28 10/27/21 21:19

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 108 50 - 150 10/27/21 19:28 10/27/21 21:19

Lab Sample ID: LCS 570-189870/2-A

**Matrix: Solid** 

**Analysis Batch: 189785** 

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup **Prep Batch: 189870** Spike LCS LCS %Rec.

Analyte Added Result Qualifier Unit %Rec Limits TPH as Diesel (C10-C28) 400 108 76 - 126 433.7 mg/Kg

LCS LCS

Limits Surrogate %Recovery Qualifier 50 - 150 n-Octacosane (Surr) 112

**Eurofins Calscience LLC** 

Project/Site: ExxonMobil ADC/0314476040

Client: Cardno, Inc

**Matrix: Solid** 

Analyte

Surrogate

n-Octacosane (Surr)

Lab Sample ID: LCS 570-189870/6-A

Lab Sample ID: LCSD 570-189870/3-A

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Added

400

LCS LCS

443.1

Result Qualifier

**Client Sample ID: Lab Control Sample** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 189870** 

%Rec. %Rec

Limits

71 - 139

LCS LCS

%Recovery Qualifier Limits 112 50 - 150

Client Sample ID: Lab Control Sample Dup

Unit

mg/Kg

**Matrix: Solid** 

**Analysis Batch: 189785** 

TPH as Motor Oil (C17-C44)

**Analysis Batch: 189785** 

Prep Type: Silica Gel Cleanup

111

**Prep Batch: 189870** 

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Diesel (C10-C28) 400 450.8 mg/Kg 113 76 - 126 4

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 112 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-189870/7-A

**Matrix: Solid** 

**Analysis Batch: 189785** 

**Prep Type: Silica Gel Cleanup** 

**Prep Batch: 189870** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) 400 426.2 107 71 - 139 mg/Kg

LCSD LCSD

Limits Surrogate **%Recovery Qualifier** n-Octacosane (Surr) 114 50 - 150

Lab Sample ID: 570-73077-2 MS Client Sample ID: S-7.5-Q5

**Matrix: Solid** 

**Analysis Batch: 189785** 

Prep Type: Silica Gel Cleanup

**Prep Batch: 189870** 

%Rec.

Client Sample ID: S-7.5-Q5

71 - 174

104

Sample Sample Spike MS MS Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec

TPH as Diesel (C10-C28) ND 492 541.4 110 37 - 175 mg/Kg

MS MS

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 109

Lab Sample ID: 570-73077-2 MS

TPH as Motor Oil (C17-C44)

**Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 189785 Prep Batch: 189870** 

Sample Sample Spike MS MS %Rec. Result Qualifier babb∆ Result Qualifier Limits Analyte Unit D %Rec

516.7

mg/Kg

496

ND MS MS

Surrogate %Recovery Qualifier Limits 50 - 150 n-Octacosane (Surr) 114

**Eurofins Calscience LLC** 

# **QC Sample Results**

Client: Cardno, Inc Job ID: 570-73077-1

Project/Site: ExxonMobil ADC/0314476040

# Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: 570-73077 Matrix: Solid Analysis Batch: 189785	'-2 MSD						P		t Sample be: Silica Prep Ba	Gel Cle	anup
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)	ND		480	542.9		mg/Kg	<del>-</del>	113	37 - 175	0	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	111		50 - 150								

Lab Sample ID: 570-73077 Matrix: Solid Analysis Batch: 189785	7-2 MSD						P	Client Sample ID: S-7.5-Q Prep Type: Silica Gel Cleanu Prep Batch: 18987				
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
TPH as Motor Oil (C17-C44)	ND		493	535.8		mg/Kg	<del>-</del>	109	71 - 174	4	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
n-Octacosane (Surr)	110		50 - 150									

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# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-73077-1

Project/Site: ExxonMobil ADC/0314476040

## **GC VOA**

## **Prep Batch: 187400**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73077-1	S-5-Q5	Total/NA	Solid	5035	
570-73077-2	S-7.5-Q5	Total/NA	Solid	5035	
570-73077-3	S-7.5-Q5 DUP	Total/NA	Solid	5035	
570-73077-4	S-7.5-R5A	Total/NA	Solid	5035	
570-73077-5	S-5-R4	Total/NA	Solid	5035	
570-73077-6	S-7.5-R4	Total/NA	Solid	5035	

## Analysis Batch: 187511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73077-1	S-5-Q5	Total/NA	Solid	NWTPH-Gx	187400
570-73077-2	S-7.5-Q5	Total/NA	Solid	NWTPH-Gx	187400
570-73077-3	S-7.5-Q5 DUP	Total/NA	Solid	NWTPH-Gx	187400
570-73077-4	S-7.5-R5A	Total/NA	Solid	NWTPH-Gx	187400
570-73077-5	S-5-R4	Total/NA	Solid	NWTPH-Gx	187400
570-73077-6	S-7.5-R4	Total/NA	Solid	NWTPH-Gx	187400
MB 570-187511/10	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-187511/6	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-187511/7	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

## **Analysis Batch: 187662**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73077-7	Trip Blank	Total/NA	Water	NWTPH-Gx	
MB 570-187662/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 570-187662/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 570-187662/4	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MS	Matrix Spike	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	NWTPH-Gx	

## **GC Semi VOA**

## **Analysis Batch: 189785**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73077-1	S-5-Q5	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-2	S-7.5-Q5	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-3	S-7.5-Q5 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-4	S-7.5-R5A	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-5	S-5-R4	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-6	S-7.5-R4	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
MB 570-189870/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
LCS 570-189870/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
LCS 570-189870/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
LCSD 570-189870/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
LCSD 570-189870/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-2 MS	S-7.5-Q5	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-2 MS	S-7.5-Q5	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-2 MSD	S-7.5-Q5	Silica Gel Cleanup	Solid	NWTPH-Dx	189870
570-73077-2 MSD	S-7.5-Q5	Silica Gel Cleanup	Solid	NWTPH-Dx	189870

### **Prep Batch: 189870**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73077-1	S-5-Q5	Silica Gel Cleanup	Solid	3550C SGC	

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# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-73077-1

Project/Site: ExxonMobil ADC/0314476040

# GC Semi VOA (Continued)

## Prep Batch: 189870 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73077-2	S-7.5-Q5	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-3	S-7.5-Q5 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-4	S-7.5-R5A	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-5	S-5-R4	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-6	S-7.5-R4	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-189870/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189870/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-189870/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189870/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-189870/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-2 MS	S-7.5-Q5	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-2 MS	S-7.5-Q5	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-2 MSD	S-7.5-Q5	Silica Gel Cleanup	Solid	3550C SGC	
570-73077-2 MSD	S-7.5-Q5	Silica Gel Cleanup	Solid	3550C SGC	

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Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

**Client Sample ID: S-5-Q5** 

Date Collected: 10/15/21 11:15 Date Received: 10/16/21 12:00 Lab Sample ID: 570-73077-1

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.029 g	5 g	187400	10/18/21 19:29	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187511	10/19/21 15:30	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.75 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/28/21 08:24	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-Q5 Lab Sample ID: 570-73077-2 Date Collected: 10/15/21 11:20 **Matrix: Solid** 

Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.365 g	5 g	187400	10/18/21 19:29	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187511	10/19/21 15:54	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.76 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 09:27	N1A	ECL 1
	Instrumen	t ID: GC48								

Client Sample ID: S-7.5-Q5 DUP

Lab Sample ID: 570-73077-3 Date Collected: 10/15/21 11:25 Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.371 g	5 g	187400	10/18/21 19:29	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187511	10/19/21 16:17	P1R	ECL 2
	Instrumer	nt ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.68 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 09:47	N1A	ECL 1
	Instrumer	nt ID: GC48								

Client Sample ID: S-7.5-R5A Lab Sample ID: 570-73077-4 Date Collected: 10/15/21 12:15 **Matrix: Solid** 

Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.849 g	5 g	187400	10/18/21 19:29	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187511	10/19/21 17:27	P1R	ECL 2
	Instrumen	t ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.58 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 10:08	N1A	ECL 1
	Instrumen	t ID: GC48								

**Eurofins Calscience LLC** 

## **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-73077-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-5-R4

Date Collected: 10/15/21 12:20

Lab Sample ID: 570-73077-5

**Matrix: Solid** 

Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.428 g	5 g	187400	10/18/21 19:29	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC57		1	5 g	5 mL	187511	10/19/21 16:40	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.43 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 10:30	N1A	ECL 1
	Instrumer	t ID: GC48								

Client Sample ID: S-7.5-R4

Date Collected: 10/15/21 12:25

Date Received: 10/16/21 12:00

	•	Ma	atrix: Solid
Batch	Prepared		
Number	or Analyzed	Analyst	Lab
187400	10/18/21 19:29	YZL3	ECL 2

Lab Sample ID: 570-73077-6

Dil Initial Batch Batch Final **Prep Type** Type Method Run **Factor Amount** Amount Total/NA Prep 5035 6.942 g 5 g Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 187511 10/19/21 17:04 P1R ECL 2 Instrument ID: GC57 Silica Gel Cleanup Prep 3550C SGC 9.84 g 10 mL 189870 10/27/21 19:28 N5Y3 ECL 1 NWTPH-Dx Silica Gel Cleanup 189785 10/28/21 10:50 N1A ECL 1 Analysis 5 Instrument ID: GC48

Client Sample ID: Trip Blank

Date Collected: 10/15/21 00:00

Date Received: 10/16/21 12:00

Lab	Sample	D:	570-7	<b>'3077-7</b>	

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/20/21 01:26	P1R	ECL 2
	Instrumer	t ID: GC25								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

**Eurofins Calscience LLC** 

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# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-73077-1

Project/Site: ExxonMobil ADC/0314476040

## **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	<b>Identification Number</b>	<b>Expiration Date</b>
Washington	State	C916-18	10-12-22

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## **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Method **Method Description** Protocol Laboratory NWTPH-Gx NWTPH ECL 2 Northwest - Volatile Petroleum Products (GC) NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC) **NWTPH** ECL 1 3550C SGC SW846 ECL 1 Ultrasonic Extraction 5030C Purge and Trap SW846 ECL 2 5035 Closed System Purge and Trap SW846 ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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Job ID: 570-73077-1

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## de Guia, Cecile

From: Laina Cole <laina.cole@cardno.com>
Sent: Thursday, November 11, 2021 3:53 PM

**To:** de Guia, Cecile; Cam Penner-Ash; Bobby Thompson

**Subject:** RE: Eurofins Calscience report, EDD and invoice files from 570-73077-1 ExxonMobil

ADC/0314476040

Follow Up Flag: Follow up Flag Status: Flagged

**EXTERNAL EMAIL*** 

#### Hi Cecile,

The first three samples listed on the COC should be "Q5" not "QS". Also, sample S-7.5-R5 should be named S-7.5-R5A. Would it be possible have the lab report reissued with the following corrected sample IDs? Please call with questions.

LAB	SAMPLE ID	Field District Name	SAMPLING			
ONLY	SAMPLE IU	Field Point Name	DATE	TIME		
	5-5-Q5	5-5-QS	10/15/2021	IIIZ		
2	75-75-QS	5-7.5- QS	10/15/2021			
3	S-7.S-QS DUP	5-7.5-05 WP	10/5 /2021	1125		
9	5-7.5- ##RS	5-7.5-RS	10/5/2021	1215		
(	5- S-R4	5-5-R4	10/15/2021	1220		
6	5-7.5-R4	5-7.5-R4	2021/ئ /10/	1225		

Reported As	Correct Sample ID
S-5-QS	S-5-Q5
S-7.5-QS	S-7.5-Q5
S-7.5-QS DUP	S-7.5-Q5 DUP
S-7.5-R5	S-7.5-R5A

### Thank you,

## Laina Cole

SENIOR PROGRAM COORDINATOR | BRANCH SAFETY OFFICER CARDNO

Direct +1 206 394 7225 Office +1 800 499 8950
Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108
Email | <a href="mailto:laina.cole@cardno.com">laina.cole@cardno.com</a> Web <a href="https://www.cardno.com">www.cardno.com</a>

This email and its attachments may contain confidential and/or privileged information for the sole use of the intended recipient(s). All electronically supplied data must be checked against an applicable hardcopy version which shall be the only document which Cardno warrants accuracy. If you are not the intended recipient,

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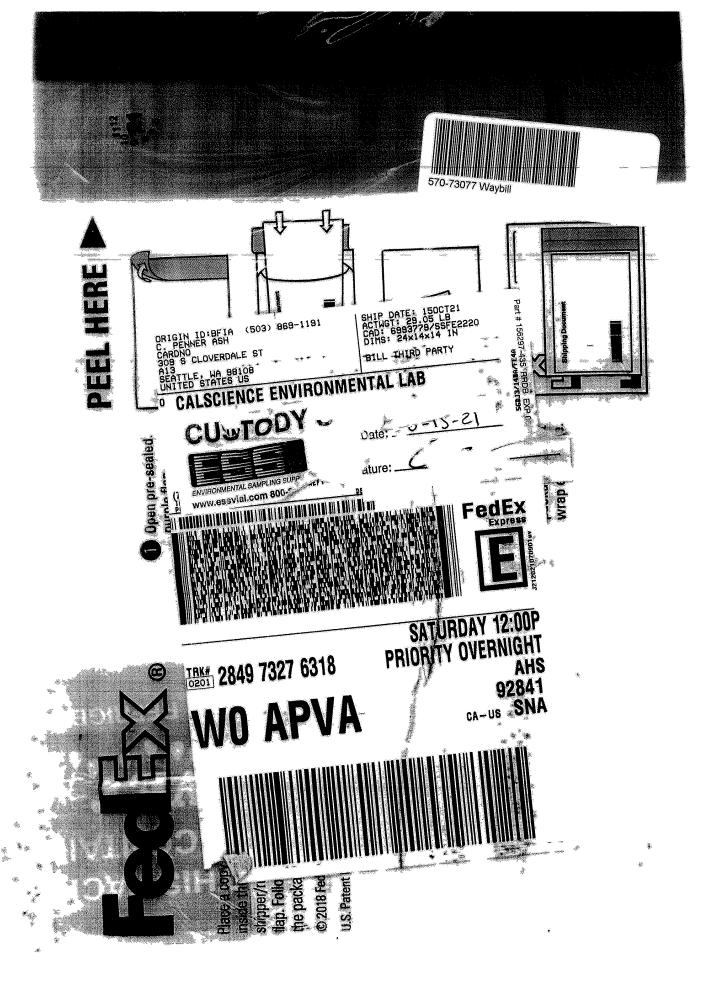
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7440 LINCOLN WAY

33/4.2505



Client: Cardno, Inc Job Number: 570-73077-1

Login Number: 73077 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Creator. Namos, Manber		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 



# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-73078-1

Client Project/Site: ExxonMobil ADC/0314476040

Revision: 1

For:

Cardno, Inc 309 South Cloverdale Street Unit A13 Seattle, Washington 98108

Attn: Bobby Thompson

Ceville d. on Sonia

Authorized for release by: 11/17/2021 12:53:36 PM

Cecile de Guia, Project Manager I (714)895-5494

Cecile.deGuia@eurofinset.com

LINKS .....

Review your project results through

Total Access

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Cardno, Inc Project/Site: ExxonMobil ADC/0314476040 Laboratory Job ID: 570-73078-1

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# **Sample Summary**

Client: Cardno, Inc Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-73078-1	S-2.5-Q1	Solid	10/14/21 13:00	10/16/21 12:00
570-73078-2	S-5-Q1	Solid	10/14/21 13:05	10/16/21 12:00
570-73078-3	S-7.5-Q1	Solid	10/14/21 13:10	10/16/21 12:00
570-73078-4	S-5-S1	Solid	10/14/21 13:20	10/16/21 12:00
570-73078-5	S-7.5-S1	Solid	10/14/21 13:25	10/16/21 12:00
570-73078-6	S-2.5-S1	Solid	10/14/21 13:15	10/16/21 12:00
570-73078-7	S-2.5-Q3	Solid	10/14/21 13:30	10/16/21 12:00
570-73078-8	S-5-Q3	Solid	10/14/21 13:35	10/16/21 12:00
570-73078-9	S-7.5-Q3	Solid	10/14/21 13:40	10/16/21 12:00
570-73078-10	S-5-C1	Solid	10/15/21 08:20	10/16/21 12:00
570-73078-11	S-7.5-C1	Solid	10/15/21 10:10	10/16/21 12:00
570-73078-12	S-10-C1	Solid	10/15/21 10:15	10/16/21 12:00
570-73078-13	S-12.5-C1	Solid	10/15/21 10:20	10/16/21 12:00
570-73078-14	S-5-C1 DUP	Solid	10/15/21 08:25	10/16/21 12:00
570-73078-15	S-2.5-E1	Solid	10/15/21 08:40	10/16/21 12:00
570-73078-16	S-5-E1	Solid	10/15/21 08:45	10/16/21 12:00
570-73078-17	S-7.5-D1A	Solid	10/15/21 10:35	10/16/21 12:00
570-73078-18	S-10-D1A	Solid	10/15/21 10:40	10/16/21 12:00
570-73078-19	S-7.5-E1	Solid	10/15/21 10:50	10/16/21 12:00
570-73078-20	S-10-E1	Solid	10/15/21 10:55	10/16/21 12:00
570-73078-21	Trip Blank	Water	10/15/21 00:00	10/16/21 12:00

# **Definitions/Glossary**

Client: Cardno, Inc Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

## Glossary

PQL

QC

RER

RL RPD

TEF

TEQ TNTC

**PRES** 

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Presumptive

**Quality Control** 

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present

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**Eurofins Calscience LLC** 

## Case Narrative

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73078-1

Job ID: 570-73078-1

**Laboratory: Eurofins Calscience LLC** 

Narrative

Job Narrative 570-73078-1

#### Comments

No additional comments.

#### Revision

The report being provided is a revision of the original report sent on 11/1/2021. The report (revision 1) is being revised due to: Sample IDs for S-7.5-D1 (570-73078-17) and S-10-D1 (570-73078-18) were listed incorrectly on the COC. Sample IDs have been corrected to S-7.5-D1A and S-10-D1A respectively.

#### Receipt

The samples were received on 10/16/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

#### **GC VOA**

Method NWTPH-GX: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188567. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-189544. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **General Chemistry**

Method Moisture: The sample duplicate (DUP) precision for analytical batch 570-187624 was outside control limits. Sample non-homogeneity is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Detection Summary** Client: Cardno, Inc Job ID: 570-73078-1 Project/Site: ExxonMobil ADC/0314476040 Lab Sample ID: 570-73078-1 Client Sample ID: S-2.5-Q1 No Detections. Client Sample ID: S-5-Q1 Lab Sample ID: 570-73078-2 Dil Fac D Method Analyte Result Qualifier RL Unit **Prep Type** TPH as Gasoline (C4-C13) 1 ☆ NWTPH-Gx 2.5 0.20 Total/NA mg/Kg Client Sample ID: S-7.5-Q1 Lab Sample ID: 570-73078-3 Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 0.33 0.29 mg/Kg NWTPH-Gx Total/NA TPH as Motor Oil Range 1 ☼ NWTPH-Dx Silica Gel 38 5.9 mg/Kg Cleanup Client Sample ID: S-5-S1 Lab Sample ID: 570-73078-4 No Detections. Client Sample ID: S-7.5-S1 Lab Sample ID: 570-73078-5 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 1 ☆ NWTPH-Gx 0.20 0.24 mg/Kg Total/NA Client Sample ID: S-2.5-S1 Lab Sample ID: 570-73078-6 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** 13 2 ☆ NWTPH-Dx TPH as Motor Oil Range 62 mg/Kg Silica Gel Cleanup Client Sample ID: S-2.5-Q3 Lab Sample ID: 570-73078-7 Analyte Result Qualifier RL Unit Dil Fac D Method **Prep Type** TPH as Gasoline (C4-C13) 9.3 0.26 mg/Kg 1 

□ NWTPH-Gx Total/NA 1 ☼ NWTPH-Dx TPH as Motor Oil Range 9.8 6.6 mg/Kg Silica Gel Cleanup Client Sample ID: S-5-03 Lab Sample ID: 570-73078-8

Chefft Sample ID. 3-5-Q3					Lab Sample ID.	iipie ib. 5/0-/30/6-6	
	Δnalyte	Result Qualifier	RI	Unit	Dil Fac D Method	Pren Tyne	

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	530	53	mg/Kg	250	☼	NWTPH-Gx	Total/NA
TPH as Diesel Range	810	16	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	190	16	mg/Kg	1	₽	NWTPH-Dx	Silica Gel Cleanup

#### Client Sample ID: S-7.5-Q3 Lab Sample ID: 570-73078-9

Analyte	Result Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	110	48	mg/Kg	250	₩	NWTPH-Gx	Total/NA
TPH as Diesel Range	340	6.2	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	61	6.2	mg/Kg	1	₩	NWTPH-Dx	Silica Gel Cleanup

#### Client Sample ID: S-5-C1 Lab Sample ID: 570-73078-10

Analyte	Result Qualifier	RL	Unit	Dil Fac	Method	Prep Type
TPH as Gasoline (C4-C13)	260	55	mg/Kg	250	NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Cardno, Inc
Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-5-C1 (Continued)

Analyte
TPH as Diesel Range

4400

Detection Summary

Job ID: 570-73078-1

Lab Sample ID: 570-73078-10

Prep Type
Silica Gel

Analyte Result Qualifier RL Unit Dil Fac D Method Prep Type
TPH as Diesel Range 4400 27 mg/Kg 5 MWTPH-Dx Silica Gel
Cleanup
TPH as Motor Oil Range 1100 27 mg/Kg 5 MWTPH-Dx Silica Gel
Cleanup
Cleanup

Client Sample ID: S-7.5-C1 Lab Sample ID: 570-73078-11

Analyte	Result Qualifier	RL	Unit	Dil Fac I	) Method	Prep Type
TPH as Gasoline (C4-C13)	8.0	0.26	mg/Kg	1 3	NWTPH-Gx	Total/NA
TPH as Diesel Range	47	11	mg/Kg	1 ⊰	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-C1 Lab Sample ID: 570-73078-12

Analyte	Result Qualifier	RL	Unit	Dil Fac	D Method	Prep Type
TPH as Gasoline (C4-C13)	0.54	0.41	mg/Kg	1	NWTPH-Gx	Total/NA

Client Sample ID: S-12.5-C1 Lab Sample ID: 570-73078-13

No Detections.

Client Sample ID: S-5-C1 DUP

Lab Sample ID: 570-73078-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	) Method	Prep Type
TPH as Gasoline (C4-C13)	160		57	mg/Kg	250	NWTPH-Gx	Total/NA
TPH as Diesel Range	1500		8.1	mg/Kg	1	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	350		8.1	mg/Kg	1 :	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-2.5-E1 Lab Sample ID: 570-73078-15

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Motor Oil Range	48	33	mg/Kg	5 ☆	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-5-E1 Lab Sample ID: 570-73078-16

No Detections.

Client Sample ID: S-7.5-D1A Lab Sample ID: 570-73078-17

Analyte	Result Qualifier	RL	Unit	Dil Fac D	Method	Prep Type
TPH as Gasoline (C4-C13)	22	1.2	mg/Kg	1 🌣	NWTPH-Gx	Total/NA
TPH as Diesel Range	930	37	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	360	37	mg/Kg	1 ☆	NWTPH-Dx	Silica Gel Cleanup

Client Sample ID: S-10-D1A Lab Sample ID: 570-73078-18

Analyte	Result Qualifier	RL	Unit	Dil Fac D Method	Prep Type
TPH as Gasoline (C4-C13)	0.62	0.24	mg/Kg	1 🔅 NWTPH-Gx	Total/NA

Client Sample ID: S-7.5-E1 Lab Sample ID: 570-73078-19

No Detections.

This Detection Summary does not include radiochemical test results.

11/17/2021 (Rev. 1)

# **Detection Summary**

Client: Cardno, Inc Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-10-E1 Lab Sample ID: 570-73078-20

No Detections.

Client Sample ID: Trip Blank Lab Sample ID: 570-73078-21

No Detections.

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-l- ID: C 0 F 04

Date Received: 10/16/21 12:00

Client Sample ID: 5-2.5-Q1	Lab Sample ID: 5/0-/30/8-1
Date Collected: 10/14/21 13:00	Matrix: Solid

Job ID: 570-73078-1

Method: NWTPH-Gx - North	west - Volatile	<b>Petroleur</b>	m Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.36	mg/Kg	<del>-</del>	10/21/21 14:27	10/22/21 14:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		50 - 150			10/21/21 14:27	10/22/21 14:59	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.3	mg/Kg	<u></u>	10/28/21 14:48	10/28/21 23:39	1
TPH as Motor Oil Range	ND		5.3	mg/Kg	₩	10/28/21 14:48	10/28/21 23:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		50 - 150			10/28/21 14:48	10/28/21 23:39	1

Lab Sample ID: 570-73078-2 Client Sample ID: S-5-Q1 Date Collected: 10/14/21 13:05 **Matrix: Solid** 

Date Received: 10/16/21 12:00

Date Received: 10/10/21 12:								
Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleur	n Products (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2.5		0.20	mg/Kg	☼	10/21/21 14:27	10/22/21 15:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			10/21/21 14:27	10/22/21 15:23	1

Method: NWTPH-Dx - Noi	thwest - Semi-Volatile	Petroleum Produ	ucts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifi	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.1	mg/Kg	<u></u>	10/28/21 14:48	10/28/21 23:59	1
TPH as Motor Oil Range	ND	6.1	mg/Kg	₩	10/28/21 14:48	10/28/21 23:59	1
Surrogate	%Recovery Qualifi	ier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92	50 - 150			10/28/21 14:48	10/28/21 23:59	1

Client Sample ID: S-7.5-Q1 Lab Sample ID: 570-73078-3 Date Collected: 10/14/21 13:10 **Matrix: Solid** 

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - Norti	hwest - Volatile	Petroleur	n Products (GC	<b>;</b> )				
Analyte TPH as Gasoline (C4-C13)	Result 0.33	Qualifier	RL 0.29	Unit mg/Kg	_ <del>D</del>	Prepared 10/21/21 14:27	Analyzed 10/22/21 15:46	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 89	Qualifier	<b>Limits</b> 50 - 150			Prepared 10/21/21 14:27	Analyzed 10/22/21 15:46	Dil Fac

Method: NWTPH-Dx - Nort	hwest - Semi-Volatile Po	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	5.9	mg/Kg	<del>*</del>	10/28/21 14:48	10/29/21 00:18	1
TPH as Motor Oil Range	38	5.9	mg/Kg	☼	10/28/21 14:48	10/29/21 00:18	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98	50 - 150			10/28/21 14:48	10/29/21 00:18	1

Job ID: 570-73078-1

Lab Sample ID: 570-73078-4 **Client Sample ID: S-5-S1** Date Collected: 10/14/21 13:20 **Matrix: Solid** 

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - Nortl	nwest - Volatile Pe	etroleum l	Products (G	C)				
Analyte	Result Qu	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.20	mg/Kg	₩	10/21/21 14:27	10/22/21 16:10	1
Surrogate	%Recovery Qu	ualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150			10/21/21 14:27	10/22/21 16:10	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.7	mg/Kg	<u></u>	10/28/21 14:48	10/29/21 00:39	1
TPH as Motor Oil Range	ND		5.7	mg/Kg	₩	10/28/21 14:48	10/29/21 00:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		50 - 150			10/28/21 14:48	10/29/21 00:39	1

Client Sample ID: S-7.5-S1 Lab Sample ID: 570-73078-5 **Matrix: Solid** 

Date Collected: 10/14/21 13:25

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - Nortl	nwest - Volatile	Petroleur	n Products (GC	5)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
TPH as Gasoline (C4-C13)	0.24		0.20	mg/Kg	<del>*</del>	10/21/21 14:27	10/22/21 16:33	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		50 - 150			10/21/21 14:27	10/22/21 16:33	

Method: NWTPH-Dx - Nor	thwest - Semi-Volatile Pe	etroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND	5.8	mg/Kg	<u></u>	10/28/21 14:48	10/29/21 01:00	1
TPH as Motor Oil Range	ND	5.8	mg/Kg	☼	10/28/21 14:48	10/29/21 01:00	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	90	50 - 150			10/28/21 14:48	10/29/21 01:00	1

Lab Sample ID: 570-73078-6 Client Sample ID: S-2.5-S1 Date Collected: 10/14/21 13:15 **Matrix: Solid** 

Date Received: 10/16/21 12:00

Method: NW	TPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte TPH as Gasoline (C4-C13)	Result ND	Qualifier	RL 0.24	<mark>Unit</mark> mg/Kg	_ <del>D</del>	Prepared 10/21/21 14:27	Analyzed 10/22/21 16:57	Dil Fac
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery 86	Qualifier	Limits 50 - 150			Prepared 10/21/21 14:27	Analyzed 10/22/21 16:57	Dil Fac

Method: NWTPH-Dx - Nort	thwest - Semi-Volatile Pe	troleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	13	mg/Kg	<del>-</del>	10/28/21 14:48	10/29/21 01:19	2
TPH as Motor Oil Range	62	13	mg/Kg	☼	10/28/21 14:48	10/29/21 01:19	2
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	64	50 - 150			10/28/21 14:48	10/29/21 01:19	2

Client Sample ID: S-2.5-Q3

Date Collected: 10/14/21 13:30 Date Received: 10/16/21 12:00

Lab Sample ID: 570-73078-7

10/28/21 14:48 10/29/21 01:59

**Matrix: Solid** 

Job ID: 570-73078-1

Method: NWTPH-Gx - Northwest - Volatile Po	Petroleum Products (GC)
--------------------------------------------	-------------------------

Analyte	Result	Qualifier	KL	Unit	L	,	Prepared	Anaiyzea	DII Fac
TPH as Gasoline (C4-C13)	9.3		0.26	mg/Kg		<u> </u>	10/21/21 14:27	10/22/21 17:20	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 10/21/21 14:27 10/22/21 17:20 4-Bromofluorobenzene (Surr) 70

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result Qualifier	RL	Unit D	Prep	ared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	6.6	mg/Kg	10/28/2	1 14:48	10/29/21 01:39	1
TPH as Motor Oil Range	9.8	6.6	mg/Kg ⇔	10/28/2	1 14:48	10/29/21 01:39	1
				_	_		

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 10/28/21 14:48 10/29/21 01:39 n-Octacosane (Surr) 101 50 - 150

Client Sample ID: S-5-Q3 Lab Sample ID: 570-73078-8 Date Collected: 10/14/21 13:35 **Matrix: Solid** 

Date Received: 10/16/21 12:00

97

Method: NWTPH-Gx - Northwe	st - Volatile	Petroleum	<b>Products (GC)</b>					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	530		53	mg/Kg	<u></u>	10/21/21 14:27	10/27/21 07:34	250

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 55 50 - 150 10/21/21 14:27 10/27/21 07:34 250

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

	D 11 0 11 11		,	_			
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	810	16	mg/Kg	₩	10/28/21 14:48	10/29/21 01:59	1
TPH as Motor Oil Range	190	16	mg/Kg	₩	10/28/21 14:48	10/29/21 01:59	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Client Sample ID: S-7.5-Q3 Lab Sample ID: 570-73078-9 **Matrix: Solid** 

50 - 150

Date Collected: 10/14/21 13:40

n-Octacosane (Surr)

Date Received: 10/16/21 12:00

Method: NWTPH-Gx	Monthuront	Valatila	Detroleum	Duadriata	CON	
Method: NW IPH-GX	- Northwest	- voiauie	Petroleum	Products	1661	

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	110	48	mg/Kg	⇒	10/21/21 14:27	10/27/21 11:20	250
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

10/21/21 14:27 10/27/21 11:20 4-Bromofluorobenzene (Surr) 72 50 - 150 250

#### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	ט	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	340		6.2	mg/Kg	₩	10/28/21 14:48	10/29/21 02:20	1	
TPH as Motor Oil Range	61		6.2	mg/Kg	₽	10/28/21 14:48	10/29/21 02:20	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
n-Octacosane (Surr)	95		50 - 150			10/28/21 14:48	10/29/21 02:20	1	

Lab Sample ID: 570-73078-10 **Client Sample ID: S-5-C1** 

Date Collected: 10/15/21 08:20 Date Received: 10/16/21 12:00

**Matrix: Solid** 

Job ID: 570-73078-1

Method: NWTPH-Gx - North	west - Volatile	Petroleui	m Products (GC)	)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	260		55	mg/Kg	≎	10/21/21 14:27	10/27/21 07:58	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150			10/21/21 14:27	10/27/21 07:58	250

Analyte	Result Qual	ifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4400	27	mg/Kg	<u></u>	10/28/21 14:48	10/29/21 02:39	5
TPH as Motor Oil Range	1100	27	mg/Kg	₽	10/28/21 14:48	10/29/21 02:39	5
Surrogate	%Recovery Qual	ifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99	50 - 150			10/28/21 14:48	10/29/21 02:39	5

Client Sample ID: S-7.5-C1 Lab Sample ID: 570-73078-11 **Matrix: Solid** 

Date Collected: 10/15/21 10:10

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - North	nwest - Volatile	Petroleui	n Products (GC	;)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	8.0		0.26	mg/Kg	<del>*</del>	10/21/21 14:27	10/22/21 19:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150			10/21/21 14:27	10/22/21 19:42	1

Method: NWTPH-Dx - No	rthwest - Semi-Volati	le Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	47		mg/Kg	<u></u>	10/28/21 14:48	10/29/21 03:40	1
TPH as Motor Oil Range	ND	11	mg/Kg	₩	10/28/21 14:48	10/29/21 03:40	1
Surrogate	%Recovery Qual	lifier Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93	50 - 150			10/28/21 14:48	10/29/21 03:40	1

Lab Sample ID: 570-73078-12 Client Sample ID: S-10-C1 **Matrix: Solid** 

Date Collected: 10/15/21 10:15

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - Northy	vest - Volatile	<b>Petroleur</b>	n Products (GC	<b>(</b> )				
Analyte	Result	Qualifier	RL	Unit	_ D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.54		0.41	mg/Kg	₩	10/21/21 14:27	10/22/21 20:06	1
Surrogate 4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits 50 - 150			Prepared 10/21/21 14:27	Analyzed 10/22/21 20:06	Dil Fac

Method: NWTPH-Dx - Noi	thwest - Semi-V	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		7.3	mg/Kg	<u></u>	10/28/21 14:48	10/29/21 03:59	1
TPH as Motor Oil Range	ND		7.3	mg/Kg	☼	10/28/21 14:48	10/29/21 03:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150			10/28/21 14:48	10/29/21 03:59	1

Client Sample ID: S-12.5-C1 Lab Sample ID: 570-73078-13 Date Collected: 10/15/21 10:20

**Matrix: Solid** 

Job ID: 570-73078-1

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - North	nwest - Volatile	Petroleur	n Products (GC	<b>;</b> )				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	MD		0.28	mg/Kg	₩	10/21/21 14:27	10/22/21 20:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150			10/21/21 14:27	10/22/21 20:30	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.8	mg/Kg	<u></u>	10/28/21 14:48	10/29/21 04:19	1
TPH as Motor Oil Range	ND		6.8	mg/Kg	₩	10/28/21 14:48	10/29/21 04:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			10/28/21 14:48	10/29/21 04:19	1

Lab Sample ID: 570-73078-14 Client Sample ID: S-5-C1 DUP Date Collected: 10/15/21 08:25 **Matrix: Solid** 

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - Nortl	nwest - Volatile	Petroleur	n Products (GC	;)				
Analyte		Qualifier	RL `	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	160		57	mg/Kg	<del>*</del>	10/21/21 14:27	10/27/21 11:44	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			50 - 150			10/21/21 14:27	10/27/21 11:44	250

Method: NWTPH-Dx - Nort	thwest - Semi-Vo	olatile Pet	roleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1500		8.1	mg/Kg	— <u></u>	10/28/21 14:48	10/29/21 04:39	1
TPH as Motor Oil Range	350		8.1	mg/Kg	₩	10/28/21 14:48	10/29/21 04:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			10/28/21 14:48	10/29/21 04:39	1

Lab Sample ID: 570-73078-15 Client Sample ID: S-2.5-E1 **Matrix: Solid** 

Date Collected: 10/15/21 08:40 Date Received: 10/16/21 12:00

Method: NWTPH-Gx - North	west - Volatile Petrol	eum Products (GC	<b>C</b> )				
Analyte	Result Qualifie	r RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND ND	0.27	mg/Kg	<del>-</del>	10/21/21 14:27	10/27/21 10:32	1
Surrogate	%Recovery Qualifie				Prepared	Analyzed 10/27/21 10:32	Dil Fac
4-Bromofluorobenzene (Surr)	91	50 - 150			10/21/21 14:27	10/2//21 10:32	7

Method: NWTPH-Dx - Nor	thwest - Semi-Volatile	Petroleum Produc	ts (GC) - Silica	Gel (	Cleanup		
Analyte	Result Qualifie	er RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	33	mg/Kg	<del>*</del>	10/28/21 14:48	10/29/21 05:00	5
TPH as Motor Oil Range	48	33	mg/Kg	☼	10/28/21 14:48	10/29/21 05:00	5
Surrogate	%Recovery Qualifie	er Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93	50 - 150			10/28/21 14:48	10/29/21 05:00	5

Dil Fac

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: 570-73078-16 Client Sample ID: S-5-E1 Date Collected: 10/15/21 08:45

Matrix: Solid

Analyzed

Prepared

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - No	rthwest - Volatile Petroleum P	Products (GC	<b>;</b> )
Analyte	Result Qualifier	RL	Unit

10/21/21 14:27 10/22/21 21:41 TPH as Gasoline (C4-C13) ND 0.26 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 50 - 150 10/21/21 14:27 10/22/21 21:41 4-Bromofluorobenzene (Surr) 90

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.4	mg/Kg	<del>-</del>	10/28/21 14:48	10/29/21 05:19	1
TPH as Motor Oil Range	ND		6.4	mg/Kg	☼	10/28/21 14:48	10/29/21 05:19	1
								5

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 10/28/21 14:48 10/29/21 05:19 n-Octacosane (Surr) 97 50 - 150

Client Sample ID: S-7.5-D1A Lab Sample ID: 570-73078-17

Date Received: 10/16/21 12:00

Date Collected: 10/15/21 10:35 **Matrix: Solid** 

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

moundarity in Ox Horamood	Tolumo i om oloun						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	22	1.2	mg/Kg	<del>-</del>	10/21/21 14:27	10/22/21 22:04	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 63 50 - 150 10/21/21 14:27 10/22/21 22:04

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

mounour min by moraling	motion in the second community of the second community							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	930		37	mg/Kg	<del>*</del>	10/28/21 14:48	10/29/21 05:38	1
TPH as Motor Oil Range	360		37	mg/Kg	☆	10/28/21 14:48	10/29/21 05:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150			10/28/21 14:48	10/29/21 05:38	1

Client Sample ID: S-10-D1A Lab Sample ID: 570-73078-18

Date Collected: 10/15/21 10:40 **Matrix: Solid** 

Date Received: 10/16/21 12:00

Mothod: NIMTDU Cv. Novthice	st - Volatile Petroleum Products (GC)	
Neinoa: NV/IPA-GX - Norinwi	Si - voiame Peiroleum Producis (GC)	

Analyte	Result	Qualifier	RL	` ΄ ι	Jnit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.62		0.24	n	ng/Kg	<del>*</del>	10/21/21 14:27	10/22/21 22:28	1

Surrogate %Recovery Qualifier I imits Dil Fac Prepared Analyzed 4-Bromofluorobenzene (Surr) 52 50 - 150 10/21/21 14:27 10/22/21 22:28

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.2	mg/Kg	₽	10/28/21 14:48	10/29/21 05:59	1
TPH as Motor Oil Range	ND		6.2	mg/Kg	₩	10/28/21 14:48	10/29/21 05:59	1
0	0/5	0 1151						

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 97 50 - 150 10/28/21 14:48 10/29/21 05:59

Project/Site: ExxonMobil ADC/0314476040

Date Received: 10/16/21 12:00

Client Sample ID: S-7.5-E1

Date Collected: 10/15/21 10:50

Lab Sample I

Lab Sample ID: 570-73078-19

Matrix: Solid

Job ID: 570-73078-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 TPH as Gasoline (C4-C13)
 ND
 0.34
 mg/Kg
 0.34
 10/21/21 14:27
 10/22/21 22:51
 1

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 79
 50 - 150
 10/21/21 14:27
 10/22/21 22:51
 1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac TPH as Diesel Range ND 7.1 mg/Kg 10/28/21 14:48 10/29/21 06:18 TPH as Motor Oil Range ND 7.1 mg/Kg 10/28/21 14:48 10/29/21 06:18

 Surrogate
 %Recovery n-Octacosane (Surr)
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 10/28/21 14:48
 10/29/21 06:18
 1

Client Sample ID: S-10-E1

Date Collected: 10/15/21 10:55

Lab Sample ID: 570-73078-20

Matrix: Solid

Date Collected: 10/15/21 10:55
Date Received: 10/16/21 12:00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 TPH as Gasoline (C4-C13)
 ND
 1.4
 mg/Kg
 # 10/21/21 14:27
 10/27/21 07:11
 1

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 70
 50 - 150
 10/21/21 14:27
 10/27/21 07:11
 1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac TPH as Diesel Range  $\overline{\mathsf{ND}}$ 12 mg/Kg 10/28/21 14:48 10/29/21 06:37 TPH as Motor Oil Range ND 12 mg/Kg 10/28/21 14:48 10/29/21 06:37 Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 97 50 - 150 10/28/21 14:48 10/29/21 06:37

Client Sample ID: Trip Blank

Lab Sample ID: 570-73078-21

Date Collected: 10/15/21 00:00 Matrix: Water

Date Received: 10/16/21 12:00

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacTPH as Gasoline (C4-C13)ND100ug/L10/20/21 11:191

 Surrogate
 %Recovery 4-Bromofluorobenzene (Surr)
 Qualifier 50 - 150
 Limits 50 - 150
 Prepared 10/20/21 11:19
 Analyzed 11/20/21 11:19
 Dil Fac 11/20/21 11:19

Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

Client: Cardno, Inc

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Solid Prep Type: Total/NA** 

<b>Lab Sample ID</b> 570-73078-1	Client Sample ID	BFB1	
570-73078-1			
		(50-150)	
	S-2.5-Q1	93	
570-73078-2	S-5-Q1	77	
570-73078-3	S-7.5-Q1	89	
570-73078-4	S-5-S1	95	
570-73078-5	S-7.5-S1	104	
570-73078-6	S-2.5-S1	86	
570-73078-7	S-2.5-Q3	70	
570-73078-8	S-5-Q3	55	
570-73078-9	S-7.5-Q3	72	
570-73078-10	S-5-C1	68	
570-73078-11	S-7.5-C1	75	
570-73078-12	S-10-C1	91	
570-73078-13	S-12.5-C1	98	
570-73078-14	S-5-C1 DUP	77	
570-73078-15	S-2.5-E1	91	
570-73078-16	S-5-E1	90	
570-73078-17	S-7.5-D1A	63	
570-73078-18	S-10-D1A	52	
570-73078-19	S-7.5-E1	79	
570-73078-20	S-10-E1	70	
LCS 570-188567/3	Lab Control Sample	107	
LCS 570-189544/29	Lab Control Sample	95	
LCSD 570-188567/4	Lab Control Sample Dup	106	
LCSD 570-189544/30	Lab Control Sample Dup	90	
MB 570-188567/5	Method Blank	86	
MB 570-189544/31	Method Blank	87	
MB 570-189544/32	Method Blank	62	
Surrogate Legend			

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Matrix: Water** Prep Type: Total/NA

		BFB1	
Lab Sample ID	Client Sample ID	(50-150)	
570-72969-D-3 MS	Matrix Spike	89	
570-72969-D-3 MSD	Matrix Spike Duplicate	91	
570-73078-21	Trip Blank	54	
LCS 570-187662/3	Lab Control Sample	91	
LCSD 570-187662/4	Lab Control Sample Dup	87	
MB 570-187662/5	Method Blank	56	
Surrogate Legend			

# **Surrogate Summary**

Client: Cardno, Inc Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Matrix: Solid Prep Type: Silica Gel Cleanup** 

			Percent Surrogate Recovery (Acceptance Limits)
		OTCSN	
Lab Sample ID	Client Sample ID	(50-150)	
570-73078-1	S-2.5-Q1	99	
570-73078-2	S-5-Q1	92	
570-73078-3	S-7.5-Q1	98	
570-73078-4	S-5-S1	92	
570-73078-5	S-7.5-S1	90	
570-73078-6	S-2.5-S1	64	
570-73078-6 MS	S-2.5-S1	100	
570-73078-6 MS	S-2.5-S1	93	
570-73078-6 MSD	S-2.5-S1	94	
570-73078-6 MSD	S-2.5-S1	100	
570-73078-7	S-2.5-Q3	101	
570-73078-8	S-5-Q3	97	
570-73078-9	S-7.5-Q3	95	
570-73078-10	S-5-C1	99	
570-73078-11	S-7.5-C1	93	
570-73078-12	S-10-C1	98	
570-73078-13	S-12.5-C1	97	
570-73078-14	S-5-C1 DUP	97	
570-73078-15	S-2.5-E1	93	
570-73078-16	S-5-E1	97	
570-73078-17	S-7.5-D1A	103	
570-73078-18	S-10-D1A	97	
570-73078-19	S-7.5-E1	95	
570-73078-20	S-10-E1	97	
LCS 570-190130/2-A	Lab Control Sample	99	
LCS 570-190130/6-A	Lab Control Sample	98	
LCSD 570-190130/3-A	Lab Control Sample Dup	98	
LCSD 570-190130/7-A	Lab Control Sample Dup	98	
MB 570-190130/1-A	Method Blank	100	
Surrogate Legend			
OTCSN = n-Octacosar	ne (Surr)		

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73078-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-187662/5 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

MB MB Result Qualifier RL Unit Dil Fac Analyte D Prepared Analyzed TPH as Gasoline (C4-C13) ND 100 ug/L 10/19/21 18:52

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 56 50 - 150 10/19/21 18:52

Lab Sample ID: LCS 570-187662/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits

TPH as Gasoline (C4-C13) 2130 2099 ug/L 99 76 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-187662/4 Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 187662** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2130 2111 ug/L 76 - 128

LCSD LCSD

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr) 87 50 - 150

Lab Sample ID: 570-72969-D-3 MS

**Matrix: Water** 

**Analysis Batch: 187662** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Limits Analyte Result Qualifier Unit %Rec TPH as Gasoline (C4-C13) ND 2130 2070 ug/L 97 69 - 132

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

Lab Sample ID: 570-72969-D-3 MSD

**Matrix: Water** 

**Analysis Batch: 187662** 

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec TPH as Gasoline (C4-C13) ND 2130 2120 ug/L 100 69 - 132

MSD MSD

89

Surrogate %Recovery Qualifier Limits 50 - 150 4-Bromofluorobenzene (Surr) 91

**Eurofins Calscience LLC** 

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Total/NA** 

**Prep Type: Total/NA** 

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: MB 570-188567/5

Job ID: 570-73078-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Client Sample ID: Method Blank

Prep Type: Total/NA

10/22/21 14:12

**Client Sample ID: Method Blank** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 188567

TPH as Gasoline (C4-C13)

MB MB Result Qualifier RL Unit Dil Fac D Prepared Analyzed

mg/Kg

ND MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 86 50 - 150 10/22/21 14:12

0.25

Lab Sample ID: LCS 570-188567/3 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

Analyte

Analysis Batch: 188567

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits

TPH as Gasoline (C4-C13) 2.12 2.033 mg/Kg 96 77 - 128

LCS LCS

%Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150 107

**Client Sample ID: Lab Control Sample Dup** Lab Sample ID: LCSD 570-188567/4 Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 188567** 

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Gasoline (C4-C13) 2.12 1.922 77 - 128 mg/Kg

LCSD LCSD

Limits Surrogate **%Recovery Qualifier** 

4-Bromofluorobenzene (Surr) 106 50 - 150

Lab Sample ID: MB 570-189544/31

**Matrix: Solid** 

**Analysis Batch: 189544** 

MB MB Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13)  $\overline{\mathsf{ND}}$ 0.25 10/27/21 00:54 mg/Kg

MB MB %Recovery Dil Fac Surrogate Qualifier Limits Prepared Analyzed

4-Bromofluorobenzene (Surr) 50 - 150 10/27/21 00:54 87

Lab Sample ID: MB 570-189544/32

**Matrix: Solid** 

Analysis Batch: 189544

MB MB Result Qualifier RL Analyte Unit D Prepared Analyzed Dil Fac TPH as Gasoline (C4-C13) ND 5.0 mg/Kg 10/27/21 01:18 20 MB MB

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 62 50 - 150 10/27/21 01:18 4-Bromofluorobenzene (Surr) 20

Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73078-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 570-189544/29

**Client Sample ID: Lab Control Sample** Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 189544

	Spike	LCS LCS			%Rec.	
Analyte	Added	Result Qualifier	Unit [	%Rec	Limits	
TPH as Gasoline (C4-C13)	2.12	1.910	mg/Kg	90	77 - 128	

LCS LCS

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 95 50 - 150

Lab Sample ID: LCSD 570-189544/30 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

**Matrix: Solid** 

Analysis Batch: 189544

•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.13	1.921		mg/Kg		90	77 - 128	1	16

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 50 - 150

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 570-190130/1-A

**Matrix: Solid** 

**Analysis Batch: 190211** 

Client Sample ID: Method Blank Prep Type: Silica Gel Cleanup

**Prep Batch: 190130** 

	MR MR						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND ND	5.0	mg/Kg		10/28/21 14:48	10/28/21 20:23	1
TPH as Motor Oil Range	ND	5.0	mg/Kg		10/28/21 14:48	10/28/21 20:23	1

MB MB %Recovery

Surrogate Qualifier Limits Prepared Analyzed Dil Fac n-Octacosane (Surr) 100 50 - 150 10/28/21 14:48 10/28/21 20:23

Lab Sample ID: LCS 570-190130/2-A

**Matrix: Solid** 

**Analysis Batch: 190211** 

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup **Prep Batch: 190130** 

Spike LCS LCS %Rec. Added Result Qualifier Unit Limits %Rec TPH as Diesel (C10-C28) 400 424.4 106 76 - 126 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 50 - 150 99

Lab Sample ID: LCS 570-190130/6-A

**Matrix: Solid** 

**Analysis Batch: 190211** 

**Client Sample ID: Lab Control Sample** Prep Type: Silica Gel Cleanup

**Prep Batch: 190130** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits TPH as Motor Oil (C17-C44) 400 71 - 139 377.9 mg/Kg 94

LCS LCS

Limits Surrogate %Recovery Qualifier 50 - 150 n-Octacosane (Surr) 98

Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCSD 570-190130/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Silica Gel Cleanup **Prep Batch: 190130** 

**Analysis Batch: 190211** Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec

TPH as Diesel (C10-C28) 400 432.8 mg/Kg 108 76 - 126 2 20

LCSD LCSD %Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-190130/7-A Prep Type: Silica Gel Cleanup

**Matrix: Solid** 

n-Octacosane (Surr)

Client: Cardno, Inc

**Matrix: Solid** 

**Analysis Batch: 190211 Prep Batch: 190130** LCSD LCSD RPD Spike %Rec.

Analyte Added Result Qualifier Unit %Rec Limits RPD Limit TPH as Motor Oil (C17-C44) 400 373.0 mg/Kg 93 71 - 139

LCSD LCSD

Surrogate %Recovery Qualifier Limits n-Octacosane (Surr) 98 50 - 150

Client Sample ID: S-2.5-S1 Lab Sample ID: 570-73078-6 MS

**Matrix: Solid** Prep Type: Silica Gel Cleanup **Analysis Batch: 190211 Prep Batch: 190130** 

Spike MS MS %Rec. Sample Sample

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

TPH as Diesel (C10-C28) 25 519 592.7 mg/Kg 109 37 - 175

%Recovery Limits Surrogate Qualifier n-Octacosane (Surr) 100 50 - 150

MS MS

94

Lab Sample ID: 570-73078-6 MS Client Sample ID: S-2.5-S1 **Matrix: Solid** Prep Type: Silica Gel Cleanup

**Analysis Batch: 190211 Prep Batch: 190130** 

Sample Sample Spike MS MS %Rec. Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec

TPH as Motor Oil (C17-C44) 74 491 543.7 96 71 - 174 mg/Kg

MS MS

%Recovery Qualifier Surrogate Limits n-Octacosane (Surr) 50 - 150 93

Client Sample ID: S-2.5-S1 Lab Sample ID: 570-73078-6 MSD **Matrix: Solid** Prep Type: Silica Gel Cleanup

**Analysis Batch: 190211 Prep Batch: 190130** 

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier babb∆ Result Qualifier Unit D Limits RPD Limit Analyte %Rec 37 - 175 TPH as Diesel (C10-C28) 25 466 527.4 mg/Kg 108 12 20

MSD MSD Surrogate %Recovery Qualifier Limits

50 - 150

**Eurofins Calscience LLC** 

11/17/2021 (Rev. 1)

# **QC Sample Results**

Client: Cardno, Inc Job ID: 570-73078-1

MSD MSD

559.4

Result Qualifier Unit

mg/Kg

Project/Site: ExxonMobil ADC/0314476040

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Spike

Added

506

Lab Sample ID: 570-73078-6 MSD

**Matrix: Solid** 

Analyte

Surrogate

n-Octacosane (Surr)

**Analysis Batch: 190211** 

TPH as Motor Oil (C17-C44)

Client Sample ID: S-2.5-S1 Prep Type: Silica Gel Cleanup

96

Prep Batch: 190130

		Lieb Do	aton. 13	00130
		%Rec.		RPD
D	%Rec	Limits	RPD	Limit

71 - 174 20

MSD MSD

74

Sample Sample

Result Qualifier

%Recovery Qualifier Limits 100 50 - 150

# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

## **GC VOA**

## **Analysis Batch: 187662**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73078-21	Trip Blank	Total/NA	Water	NWTPH-Gx	
MB 570-187662/5	Method Blank	Total/NA	Water	NWTPH-Gx	
LCS 570-187662/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 570-187662/4	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MS	Matrix Spike	Total/NA	Water	NWTPH-Gx	
570-72969-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	NWTPH-Gx	

## **Prep Batch: 188256**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73078-1	S-2.5-Q1	Total/NA	Solid	5035	
570-73078-2	S-5-Q1	Total/NA	Solid	5035	
570-73078-3	S-7.5-Q1	Total/NA	Solid	5035	
570-73078-4	S-5-S1	Total/NA	Solid	5035	
570-73078-5	S-7.5-S1	Total/NA	Solid	5035	
570-73078-6	S-2.5-S1	Total/NA	Solid	5035	
570-73078-7	S-2.5-Q3	Total/NA	Solid	5035	
570-73078-11	S-7.5-C1	Total/NA	Solid	5035	
570-73078-12	S-10-C1	Total/NA	Solid	5035	
570-73078-13	S-12.5-C1	Total/NA	Solid	5035	
570-73078-15	S-2.5-E1	Total/NA	Solid	5035	
570-73078-16	S-5-E1	Total/NA	Solid	5035	
570-73078-17	S-7.5-D1A	Total/NA	Solid	5035	
570-73078-18	S-10-D1A	Total/NA	Solid	5035	
570-73078-19	S-7.5-E1	Total/NA	Solid	5035	
570-73078-20	S-10-E1	Total/NA	Solid	5035	

## **Prep Batch: 188257**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73078-8	S-5-Q3	Total/NA	Solid	5035	
570-73078-9	S-7.5-Q3	Total/NA	Solid	5035	
570-73078-10	S-5-C1	Total/NA	Solid	5035	
570-73078-14	S-5-C1 DUP	Total/NA	Solid	5035	

#### Analysis Batch: 188567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73078-1	S-2.5-Q1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-2	S-5-Q1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-3	S-7.5-Q1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-4	S-5-S1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-5	S-7.5-S1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-6	S-2.5-S1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-7	S-2.5-Q3	Total/NA	Solid	NWTPH-Gx	188256
570-73078-11	S-7.5-C1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-12	S-10-C1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-13	S-12.5-C1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-16	S-5-E1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-17	S-7.5-D1A	Total/NA	Solid	NWTPH-Gx	188256
570-73078-18	S-10-D1A	Total/NA	Solid	NWTPH-Gx	188256
570-73078-19	S-7.5-E1	Total/NA	Solid	NWTPH-Gx	188256
MB 570-188567/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188567/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	

# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

# **GC VOA (Continued)**

## **Analysis Batch: 188567 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-188567/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

#### **Analysis Batch: 189544**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73078-8	S-5-Q3	Total/NA	Solid	NWTPH-Gx	188257
570-73078-9	S-7.5-Q3	Total/NA	Solid	NWTPH-Gx	188257
570-73078-10	S-5-C1	Total/NA	Solid	NWTPH-Gx	188257
570-73078-14	S-5-C1 DUP	Total/NA	Solid	NWTPH-Gx	188257
570-73078-15	S-2.5-E1	Total/NA	Solid	NWTPH-Gx	188256
570-73078-20	S-10-E1	Total/NA	Solid	NWTPH-Gx	188256
MB 570-189544/31	Method Blank	Total/NA	Solid	NWTPH-Gx	
MB 570-189544/32	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-189544/29	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-189544/30	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

## **GC Semi VOA**

## **Prep Batch: 190130**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
570-73078-1	S-2.5-Q1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-2	S-5-Q1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-3	S-7.5-Q1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-4	S-5-S1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-5	S-7.5-S1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-6	S-2.5-S1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-7	S-2.5-Q3	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-8	S-5-Q3	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-9	S-7.5-Q3	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-10	S-5-C1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-11	S-7.5-C1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-12	S-10-C1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-13	S-12.5-C1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-14	S-5-C1 DUP	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-15	S-2.5-E1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-16	S-5-E1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-17	S-7.5-D1A	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-18	S-10-D1A	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-19	S-7.5-E1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-20	S-10-E1	Silica Gel Cleanup	Solid	3550C SGC	
MB 570-190130/1-A	Method Blank	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-190130/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCS 570-190130/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-190130/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-190130/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-6 MS	S-2.5-S1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-6 MS	S-2.5-S1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-6 MSD	S-2.5-S1	Silica Gel Cleanup	Solid	3550C SGC	
570-73078-6 MSD	S-2.5-S1	Silica Gel Cleanup	Solid	3550C SGC	

# **QC Association Summary**

Client: Cardno, Inc Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

## **GC Semi VOA**

## **Analysis Batch: 190211**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73078-1	S-2.5-Q1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-2	S-5-Q1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-3	S-7.5-Q1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-4	S-5-S1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-5	S-7.5-S1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-6	S-2.5-S1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-7	S-2.5-Q3	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-8	S-5-Q3	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-9	S-7.5-Q3	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-10	S-5-C1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-11	S-7.5-C1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-12	S-10-C1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-13	S-12.5-C1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-14	S-5-C1 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-15	S-2.5-E1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-16	S-5-E1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-17	S-7.5-D1A	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-18	S-10-D1A	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-19	S-7.5-E1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-20	S-10-E1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
MB 570-190130/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
LCS 570-190130/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
LCS 570-190130/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
LCSD 570-190130/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
LCSD 570-190130/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-6 MS	S-2.5-S1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-6 MS	S-2.5-S1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-6 MSD	S-2.5-S1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130
570-73078-6 MSD	S-2.5-S1	Silica Gel Cleanup	Solid	NWTPH-Dx	190130

3

4

5

7

9

10

12

4 4

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-2.5-Q1

Date Collected: 10/14/21 13:00 Date Received: 10/16/21 12:00 Lab Sample ID: 570-73078-1

Lab Sample ID: 570-73078-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.763 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	188567	10/22/21 14:59	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/28/21 23:39	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-Q1

Date Collected: 10/14/21 13:05

Lab Sample ID: 570-73078-2

Matrix: Solid

Date Received: 10/16/21 12:00

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 Prep 7.425 g 5 g 188256 10/21/21 14:27 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 5 g 5 mL 188567 10/22/21 15:23 A9VE ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 9.62 g 10 mL 190130 10/28/21 14:48 N5Y3 ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 190211 10/28/21 23:59 A1W ECL 1 Instrument ID: GC50

Client Sample ID: S-7.5-Q1 Date Collected: 10/14/21 13:10

Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.227 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188567	10/22/21 15:46	A9VE	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.31 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 00:18	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-S1

Date Collected: 10/14/21 13:20

Lab Sample ID: 570-73078-4

Matrix: Solid

Date Collected: 10/14/21 13:20 Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.245 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188567	10/22/21 16:10	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.25 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 00:39	A1W	ECL 1
	Instrumen	t ID: GC50								

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**Matrix: Solid** 

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-S1

Date Collected: 10/14/21 13:25 Date Received: 10/16/21 12:00 Lab Sample ID: 570-73078-5

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.39 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	188567	10/22/21 16:33	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.36 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 01:00	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-2.5-S1

Date Collected: 10/14/21 13:15

Date Received: 10/16/21 12:00

Lab Sample ID: 570-73078-6

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.506 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	188567	10/22/21 16:57	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.57 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			190211	10/29/21 01:19	A1W	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-2.5-Q3

Date Collected: 10/14/21 13:30

Date Received: 10/16/21 12:00

Lab Sample ID: 570-73078-7

Matrix: Solid

	Batch	Batch	:h	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.993 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188567	10/22/21 17:20	A9VE	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.42 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 01:39	A1W	ECL 1
•	Instrumer	nt ID: GC50								

**Client Sample ID: S-5-Q3** 

Date Collected: 10/14/21 13:35

Date Received: 10/16/21 12:00

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	_		Mat	riv. C	bilo2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.792 g	5 mL	188257	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	189544	10/27/21 07:34	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			3.70 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 01:59	A1W	ECL 1
	Instrumen	t ID: GC50								

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-7.5-Q3

Date Collected: 10/14/21 13:40 Date Received: 10/16/21 12:00

Client Sample ID: S-5-C1

Lab Sample ID: 570-73078-9

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.889 g	5 mL	188257	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	189544	10/27/21 11:20	A9VE	ECL 2
	Instrumer	nt ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.83 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 02:20	A1W	ECL 1
	Instrumer	nt ID: GC50								

Lab Sample ID: 570-73078-10

**Matrix: Solid** 

Date Collected: 10/15/21 08:20 Date Received: 10/16/21 12:00

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 6.292 g 5 mL 188257 10/21/21 14:27 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 250 5 mL 5 mL 189544 10/27/21 07:58 A9VE ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 10.19 g 10 mL 190130 10/28/21 14:48 N5Y3 ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 190211 10/29/21 02:39 A1W ECL 1 5 Instrument ID: GC50

Client Sample ID: S-7.5-C1 Lab Sample ID: 570-73078-11

Date Collected: 10/15/21 10:10 Date Received: 10/16/21 12:00

**Matrix: Solid** 

	Batch	h Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.171 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	188567	10/22/21 19:42	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			6.86 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 03:40	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-10-C1 Lab Sample ID: 570-73078-12 **Matrix: Solid** 

Date Collected: 10/15/21 10:15

Date Received: 10/16/21 12:00

	Batch	Batch	Batch	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.029 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188567	10/22/21 20:06	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.03 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 03:59	A1W	ECL 1
	Instrumen	t ID: GC50								

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: S-12.5-C1

Date Collected: 10/15/21 10:20 Date Received: 10/16/21 12:00

Lab Sample ID: 570-73078-13

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.818 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx at ID: GC56		1	5 g	5 mL	188567	10/22/21 20:30	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.70 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 04:19	A1W	ECL 1
	Instrumer	nt ID: GC50								

Client Sample ID: S-5-C1 DUP

Date Collected: 10/15/21 08:25

Date Received: 10/16/21 12:00

Lab Sample ID: 570-73078-14

**Matrix: Solid** 

Dil Initial Batch Batch Batch Final Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 6.095 g 5 mL 188257 10/21/21 14:27 YZL3 ECL 2 Total/NA Analysis **NWTPH-Gx** 250 5 mL 5 mL 189544 10/27/21 11:44 A9VE ECL 2 Instrument ID: GC56 Silica Gel Cleanup 3550C SGC 6.95 g 10 mL 190130 10/28/21 14:48 N5Y3 ECL 1 Silica Gel Cleanup Analysis NWTPH-Dx 190211 10/29/21 04:39 A1W ECL 1 Instrument ID: GC50

Client Sample ID: S-2.5-E1

Date Collected: 10/15/21 08:40

Date Received: 10/16/21 12:00

Lab Sample ID: 570-73078-15

Lab Sample ID: 570-73078-16

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.179 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	189544	10/27/21 10:32	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.01 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			190211	10/29/21 05:00	A1W	ECL 1
	Instrumen	t ID: GC50								

Client Sample ID: S-5-E1

Date Collected: 10/15/21 08:45

Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.236 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188567	10/22/21 21:41	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 05:19	A1W	ECL 1
	Instrumen	t ID: GC50								

**Matrix: Solid** 

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Lab Sample ID: 570-73078-17 Client Sample ID: S-7.5-D1A

Date Collected: 10/15/21 10:35 **Matrix: Solid** Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.598 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis Instrumer	NWTPH-Gx nt ID: GC56		1	5 g	5 mL	188567	10/22/21 22:04	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			4.54 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 05:38	A1W	ECL 1
	Instrumer	nt ID: GC50								

Lab Sample ID: 570-73078-18 Client Sample ID: S-10-D1A

Date Collected: 10/15/21 10:40 Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.384 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis Instrumen	NWTPH-Gx at ID: GC56		1	5 g	5 mL	188567	10/22/21 22:28	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 05:59	A1W	ECL 1
	Instrumen	t ID: GC50								

Lab Sample ID: 570-73078-19 Client Sample ID: S-7.5-E1 Date Collected: 10/15/21 10:50 **Matrix: Solid** 

Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.345 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	188567	10/22/21 22:51	A9VE	ECL 2
	Instrumer	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.20 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 06:18	A1W	ECL 1
	Instrumer	t ID: GC50								

Client Sample ID: S-10-E1 Lab Sample ID: 570-73078-20 **Matrix: Solid** 

Date Collected: 10/15/21 10:55 Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.127 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	189544	10/27/21 07:11	A9VE	ECL 2
	Instrumen	t ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.85 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			190211	10/29/21 06:37	A1W	ECL 1
	Instrumen	t ID: GC50								

## **Lab Chronicle**

Client: Cardno, Inc Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

Client Sample ID: Trip Blank Lab Sample ID: 570-73078-21

Matrix: Water

Date Collected: 10/15/21 00:00 Date Received: 10/16/21 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/20/21 11:19	P1R	ECL 2	
	Instrumer	t ID: GC25									

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

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# **Accreditation/Certification Summary**

Client: Cardno, Inc Job ID: 570-73078-1

Project/Site: ExxonMobil ADC/0314476040

## **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	<b>Identification Number</b>	<b>Expiration Date</b>
Washington	State	C916-18	10-12-22

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# **Method Summary**

Client: Cardno, Inc

Project/Site: ExxonMobil ADC/0314476040

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 2
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	Ultrasonic Extraction	SW846	ECL 1
5030C	Purge and Trap	SW846	ECL 2
5035	Closed System Purge and Trap	SW846	ECL 2

#### **Protocol References:**

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

ECL 2 = Eurofins Calscience LLC Lampson, 7445 Lampson Ave, Garden Grove, CA 92841, TEL (714)895-5494

Job ID: 570-73078-1

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## de Guia, Cecile

From: Laina Cole <laina.cole@cardno.com>
Sent: Thursday, November 11, 2021 4:06 PM

**To:** de Guia, Cecile; Cam Penner-Ash; Bobby Thompson

**Subject:** RE: Eurofins Calscience report, EDD and invoice files from 570-73078-1 ExxonMobil

ADC/0314476040

Follow Up Flag: Follow up Flag Status: Flagged

EXTERNAL EMAIL*

#### Hi Cecile,

While reviewing the data, noticed that we listed two samples incorrectly on the COC. Please see below for corrected sample IDs and if possible, reissue the lab accordingly. Call with questions.

57	5-25-D	5-7.5-101	10%\$ /2021	1035
W	5-10-121	5-10-01	10/\$/2021	1040

Reported As	Correct Sample ID
S-7.5-D1	S-7.5-D1A
S-10-D1	S-10-D1A

#### Thank you,

#### Laina Cole

SENIOR PROGRAM COORDINATOR | BRANCH SAFETY OFFICER CARDNO

Direct +1 206 394 7225 Office +1 800 499 8950

Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108

Email laina.cole@cardno.com Web www.cardno.com

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From: Cecile de Guia < Cecile.de Guia @eurofinset.com>

Sent: Monday, November 1, 2021 15:10

To: Cam Penner-Ash <cameron.penner-ash@cardno.com>; Laina Cole <laina.cole@cardno.com>; Bobby Thompson

<robert.thompson@cardno.com>

Subject: Eurofins Calscience report, EDD and invoice files from 570-73078-1 ExxonMobil ADC/0314476040

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Attached please find the report, EDD and invoice files for job 570-73078-1; ExxonMobil ADC/0314476040

Please feel free to contact me if you have any questions.

Thank you.

#### Cecile de Guia

Project Manager

Eurofins Calscience LLC Phone: 714-895-5494

E-mail: <u>Cecile.deGuia@eurofinset.com</u>

www.eurofinsus.com/env



Reference: [570-255795] Attachments: 4



* WARNING - EXTERNAL: This email originated from outside of Eurofins Environment Testing America. Do not click any links or open any attachments unless you trust the sender and know that the content is safe!

	eurofins .		7440 LINCOLN WAY			Site	Name		Everett Bulk Plant	CHAIN OF CUSTODY RECORD
<b>.</b>		Calscience		2841-1432		Pos	in the WITA Community of the Community o	eninanananananananan EN ORANETO	rossussessessessessessessessessessessesses	DATE 1015/2021
			TEL. (714) 895-5494 FAX: (714) 894-7501	X: (714) 894-750		Reta Majo	il Project (MRN r Project (AFE		Retail Project (MRN) Major Project (AFE)	PAGE OF
Exxon	ExxonMobil Engr		Jennifer Sedlachek			Proj	ect Name	anasiananananananananananananananananana	ExxonMobil ADC / 0314476040	
LABORA	LABORATORY CLIENT							GLOBAL ID # COELT LOG CODE	Log cobe:	<del>чение се станова в постанова се станова постанова се је станова се је станова се је је станова постанова поста</del>
Cardno	oup								*	P O 0314476040, Agreement# A2604415
300	South Clov	309 South Cloverdale Street Unit A13	et Unit A13					PROJECT CONTACT		LARIBERONEX
Sea	Seattle, WA 98108	108						Robert Thompson	mpson	Š
TEL.	206-510-5855	5855	FAX: N/A	robe	robert.thompson@		cardno.com	Considine	SAMPLER(S) Faul Frevou, Cameron Fenner-Asn, John Considine	
TURNAR	TURNAROUND TIME	□24 HR	□48 HR □72 HR	5 DA	☑ 10 DAYS				REQUES	
SPECIAL	SPECIAL REQUIREMENTS (A	SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  RWOCB REPORTING	/E S	/ ILL	'					F
SPECIAL	SPECIAL INSTRUCTIONS:									
Required Include %	Required EIM and Cardno nclude % Moisture in rep Mill units in malko	no EDDs. Perforr port for dry weig	Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Include & Wolsture in report for dry weight correction. Report to: laina.cole@cardno.com, robert.thompson@cardno.com all units in method.	ns. Group results b i.cole@cardno.com	y sample, n , robert.tho	ot by ana npson@c	ysis method. ardno.com	CPH as C		
Report to	:: laina.cole@ca	irdno.com, rober	in annothing my. leport to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com	d cameron.penner⊸	sh@cardno	COM		Γ×	570-73078	570-73078 Chain of Custody
8	ONY S	C E E	O Figure	SAMPLING	ING	MAT.	NO. OF CONT	5-H9 1_H9		
ONLY ONLY	overno.	ירב וס	rield Point Name	DATE	TIME	XX.		-		CONTAINER TYPE
	5-2,5-0	Ţ	J-2. S-@1	10/14/2021	1300	S	4	XX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
2	5-01		1-5-81	10/11/2021	1305	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
رع	10-5-0	3	5-25-91	10/14/2021	o Ei	S	4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
1 "	5-7-51		C- 2. C- 51	10/64/2021	1376	n v	4 4	××	2 Sodium bisuitate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un preserved glass jar ne 4oz un preserved diese jar
3	7-2-5		15-2-2	10/14/2021	L	o.	7	+-	2 Sodium Rigilfate VOAs 1 Mathanol VOA one 402 in-preserved glass in-	no act ar preserved glass far
F	- 2,5-03	(3	5-2.5-03	10/44/2021	1	ာ	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
ж Ж	2-5-03	co.	15-5- Q3	10/14/2021	1335	S	4	├-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
	J- 7.5 - 03	2	5-7,5-03	10/(4/2021	1340	S	4	<del>  </del>	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
9	2.5.0		2-8-01	10/15/2021	0850	S	4	-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
3 5	5-7.S-c1	-	5-7.5.C.		010	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
3 3	25.10	13.5	2-10-5	10/05/2021	2101	N C	4	+	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
23	( ) · ( · ( · ( · ( · ( · ( · ( · ( · (	4 C-C-C OUP	5-573-5 0.6.6-61	10/18/2021	2201	ρU	4 4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
ñ	2-2 (-5)	10-	14-5.2-5	1005/2021	2000	1	r   4	< ×	2 Social Bisilfate VOAs 1 Methand VOA one 402 un-preserved glass jar	ite 402 uit-julget ved glass jai na 402 iin-nracaniah njace jar
رو	2.6.2	1	5-6-E1	10/18 /2021		1	4	+-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
ĩ	5-13	10-	10-5-2-5	10 <b>NS</b> /2021		S	4	├-	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
43	101-01-5	101-	2-10-01	10/15/2021	0h &)	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
క	S-1-S	<u>.</u> د د	2-12-61	10/15/2021	1050	S	4	XX	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
ව	2-10-61	-61	S-10-E1	10/15/2021	Sso)	S	4	×	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	ne 4oz un-preserved glass jar
1										
4	Trip Blank		Trip Blank	10/15/2021	)	B	7	X	3V002	
-	4		EORI	1000		ф	<b>j</b>			
Parate	Kelinquished by (Signatu		COR COLOR			Receiv	ed by (Signature)		~ * / /	Date & Time: 10/ <b>1/5</b> /2021 4 15:00 PM
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Relinquis	Relinquished by (Signature)	1	CAMECANA			Receive	Received by: (Signature)		JAMANAX	Date & Time;
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ORIGIN ID:BFIA (500 DENNER ASH CARDNO 309 S CLOVERDALE ST A13 SEATTLE, WA 98108 UNITED STATES US (503) 864-1100

O CALSCIENCE ENVIRONMENTAL LAB

7440 LINCOLN WAY



TRK# 2849 7296 5596

SATURDAY 12:00P PRIORITY OVERNIGHT 92841 CA-US



Client: Cardno, Inc Job Number: 570-73078-1

Login Number: 73078 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Creator: Ramos, Maribei		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

#### REVISED DRAFT SITE CHARACTERIZATION/FOCUSED FEASIBILITY STUDY ADDENDUM

ExxonMobil ADC June 30, 2023

# **APPENDIX E**Waste Documentation

Project Number: 238000337.R14a

# **APPENDIX E**Waste Documentation

January 25, 2022

EXXONMOBILE OIL CORPORATION 2717/2731 FEDERAL AVE EVERETT, WA 98201

This is to certify that waste as defined on Waste Manifest number <u>D379156/311249</u> was received by U.S. Ecology, Inc., on <u>9/24/2021</u>. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on <u>10/06/2021</u> in accordance with permits and laws regulating this facility.

ian Schmitz

Reference Number: 21092404151-D379156/311249-1-2

Material: 8 55 GALLON DRUM (CRUSHED EMPTY CONTAINER)

**Process:** Direct Landfill

Management Code: H132 Landfill or surface impoundment that will be closed as landfill

Facility: US ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

Waste Stream #: 52916-0

Waste Type: NON-HAZARDOUS

Customer: ADVANCED CHEMICAL TRANSPORT

Printed Name: CORIAN SCHMITZ

January 25, 2022

EXXONMOBILE OIL CORPORATION 2717/2731 FEDERAL AVE EVERETT, WA 98201

This is to certify that waste as defined on Waste Manifest number <u>D379156/311249</u> was received by U.S. Ecology, Inc., on <u>9/24/2021</u>. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on <u>10/06/2021</u> in accordance with permits and laws regulating this facility.

ian Schmitz

**Reference Number:** 21092404151-D379156/311249-1-2

Material: 8 55 GALLON DRUM (BATCH WASTE)

**Process:** Solidification

Management Code: H132 Landfill or surface impoundment that will be closed as landfill

Facility: US ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

Waste Stream #: 52916-0

Waste Type: NON-HAZARDOUS

Customer: ADVANCED CHEMICAL TRANSPORT

Printed Name: CORIAN SCHMITZ

Signature:

January 25, 2022

EXXONMOBILE OIL CORPORATION 2717/2731 FEDERAL AVE EVERETT, WA 98201

This is to certify that waste as defined on Waste Manifest number <u>D379156/311249</u> was received by U.S. Ecology, Inc., on <u>9/24/2021</u>. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on <u>09/30/2021</u> in accordance with permits and laws regulating this facility.

ian Schmitz

Reference Number: 21092404151-D379156/311249-1-1

Material: 3 55 GALLON DRUM

**Process:** Direct Landfill

Management Code: H132 Landfill or surface impoundment that will be closed as landfill

Facility: US ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

**Waste Stream #:** 52930-0

Waste Type: NON-HAZARDOUS

Customer: ADVANCED CHEMICAL TRANSPORT

Printed Name: CORIAN SCHMITZ

January 21, 2022

EXXONMOBILE OIL CORPORATION 2717/2731 FEDERAL AVE EVERETT, WA 98201

This is to certify that waste as defined on Waste Manifest number <u>322470/D394558</u> was received by U.S. Ecology, Inc., on <u>12/13/2021</u>. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on <u>12/21/2021</u> in accordance with permits and laws regulating this facility.

ian Schmitz

Reference Number: 21121305785-322470/D394558-1-1

Material: 7 55 GALLON DRUM

**Process:** Direct Landfill

Management Code: H132 Landfill or surface impoundment that will be closed as landfill

Facility: US ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

Waste Stream #: 52930-0

Waste Type: NON-HAZARDOUS

Customer: ADVANCED CHEMICAL TRANSPORT

Printed Name: CORIAN SCHMITZ

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January 21, 2022

EXXONMOBILE OIL CORPORATION 2717/2731 FEDERAL AVE EVERETT, WA 98201

This is to certify that waste as defined on Waste Manifest number <u>322470/D394558</u> was received by U.S. Ecology, Inc., on <u>12/13/2021</u>. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on <u>12/30/2021</u> in accordance with permits and laws regulating this facility.

ian Schmitz

**Reference Number:** 21121305785-322470/D394558-1-2

Material: 7 55 GALLON DRUM (CRUSHED EMPTY CONTAINER)

**Process:** Direct Landfill

Management Code: H132 Landfill or surface impoundment that will be closed as landfill

Facility: US ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

Waste Stream #: 52916-0

Waste Type: NON-HAZARDOUS

Customer: ADVANCED CHEMICAL TRANSPORT

Printed Name: CORIAN SCHMITZ

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January 21, 2022

EXXONMOBILE OIL CORPORATION 2717/2731 FEDERAL AVE EVERETT, WA 98201

This is to certify that waste as defined on Waste Manifest number <u>322470/D394558</u> was received by U.S. Ecology, Inc., on <u>12/13/2021</u>. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on <u>12/30/2021</u> in accordance with permits and laws regulating this facility.

ian Schmitz

**Reference Number:** 21121305785-322470/D394558-1-2

Material: 1 85 GALLON DRUM (CRUSHED EMPTY CONTAINER)

**Process:** Direct Landfill

Management Code: H132 Landfill or surface impoundment that will be closed as landfill

Facility: US ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

**Waste Stream #:** 52916-0

Waste Type: NON-HAZARDOUS

Customer: ADVANCED CHEMICAL TRANSPORT

Printed Name: CORIAN SCHMITZ

1 1

Signature:

January 21, 2022

EXXONMOBILE OIL CORPORATION 2717/2731 FEDERAL AVE EVERETT, WA 98201

This is to certify that waste as defined on Waste Manifest number <u>322470/D394558</u> was received by U.S. Ecology, Inc., on <u>12/13/2021</u>. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on <u>12/30/2021</u> in accordance with permits and laws regulating this facility.

ian Schmitz

**Reference Number:** 21121305785-322470/D394558-1-2

Material: 7 55 GALLON DRUM (BATCH WASTE)

**Process:** Solidification

Management Code: H132 Landfill or surface impoundment that will be closed as landfill

Facility: US ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

**Waste Stream #:** 52916-0

Waste Type: NON-HAZARDOUS

Customer: ADVANCED CHEMICAL TRANSPORT

Printed Name: CORIAN SCHMITZ

Signature:

January 21, 2022

EXXONMOBILE OIL CORPORATION 2717/2731 FEDERAL AVE EVERETT, WA 98201

This is to certify that waste as defined on Waste Manifest number <u>322470/D394558</u> was received by U.S. Ecology, Inc., on <u>12/13/2021</u>. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on <u>12/30/2021</u> in accordance with permits and laws regulating this facility.

ian Schmitz

**Reference Number:** 21121305785-322470/D394558-1-2

Material: 1 85 GALLON DRUM (BATCH WASTE)

**Process:** Solidification

Management Code: H132 Landfill or surface impoundment that will be closed as landfill

Facility: US ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

Waste Stream #: 52916-0

Waste Type: NON-HAZARDOUS

Customer: ADVANCED CHEMICAL TRANSPORT

Printed Name: CORIAN SCHMITZ

Signature:

January 21, 2022

EXXONMOBILE OIL CORPORATION 2717/2731 FEDERAL AVE EVERETT, WA 98201

This is to certify that waste as defined on Waste Manifest number <u>322470/D394558</u> was received by U.S. Ecology, Inc., on <u>12/13/2021</u>. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on <u>12/21/2021</u> in accordance with permits and laws regulating this facility.

ian Schmitz

**Reference Number:** 21121305785-322470/D394558-1-3

Material: 1 85 GALLON DRUM

**Process:** Direct Landfill

Management Code: H132 Landfill or surface impoundment that will be closed as landfill

Facility: US ECOLOGY IDAHO, INC.

20400 LEMLEY ROAD GRAND VIEW, ID 83624 EPA ID: IDD073114654

Waste Stream #: 54056-0

Waste Type: NON-HAZARDOUS

Customer: ADVANCED CHEMICAL TRANSPORT

Printed Name: CORIAN SCHMITZ