



Stantec Consulting Services Inc.  
720 Third Avenue, Suite 1500  
Seattle WA 98104-1878

June 30, 2023  
File: 238000337.R14a

Mr. Jason Cook  
Washington State Department of Ecology  
Toxics Cleanup Program  
P.O. Box 47600  
Olympia, Washington 98504-7600

**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

**Bobby Thompson**  
Senior Project Manager  
Mobile: (206) 510-5855  
robert.thompson@stantec.com

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:

Stantec Consulting Services Inc  
720 Third Avenue, Suite 1500  
Seattle, Washington 98104  
USA  
[www.stantec.com](http://www.stantec.com)

File: 238000337.R14a



**REVISED DRAFT SITE CHARACTERIZATION/FOCUSED FEASIBILITY STUDY ADDENDUM**

ExxonMobil ADC

June 30, 2023

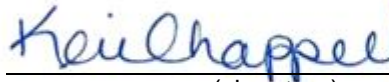
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**Laina Cole**  
Senior Program Coordinator



\_\_\_\_\_  
(signature)

**Keri L. Chappell**  
LG 2719



\_\_\_\_\_  
(signature)



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## Acronyms and Abbreviations

2010 Order	Agreed Order DE 6184
ADC	American Distributing Company
Addendum	Stantec's <i>Draft Site Characterization/Focused Feasibility Study Addendum</i> , dated June 30, 2023
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	Eurofins Calscience LLC, located in Garden Grove, California
Excavation Delineation Work	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
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
Property	ExxonMobil and ADC-owned parcels located at 2717 and 2731 Federal Avenue, in 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	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.



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.





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.



## 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.



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-foot 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-foot 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



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.



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



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.



#### 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.



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 walers or tiebacks along the height of the wall. Because of the long length of the wall, use of a waler 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 will be defined in Stantec's Engineering Design Report.





## 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.

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



- 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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## REVISED DRAFT SITE CHARACTERIZATION/FOCUSED FEASIBILITY STUDY ADDENDUM

ExxonMobil ADC

June 30, 2023

Washington State Department of Ecology (Ecology). August 12, 2021. *Technical Memorandum – Site Characterization/Focused Feasibility Report – ExxonMobil / ADC Property-Ecology Site 2728, Everett, Washington.*

Washington State Department of Ecology (Ecology). February 3, 2022a. *Technical Memorandum – Site Characterization/Focused Feasibility Report – ExxonMobil / ADC Property-Ecology Site 2728, Everett, Washington.*

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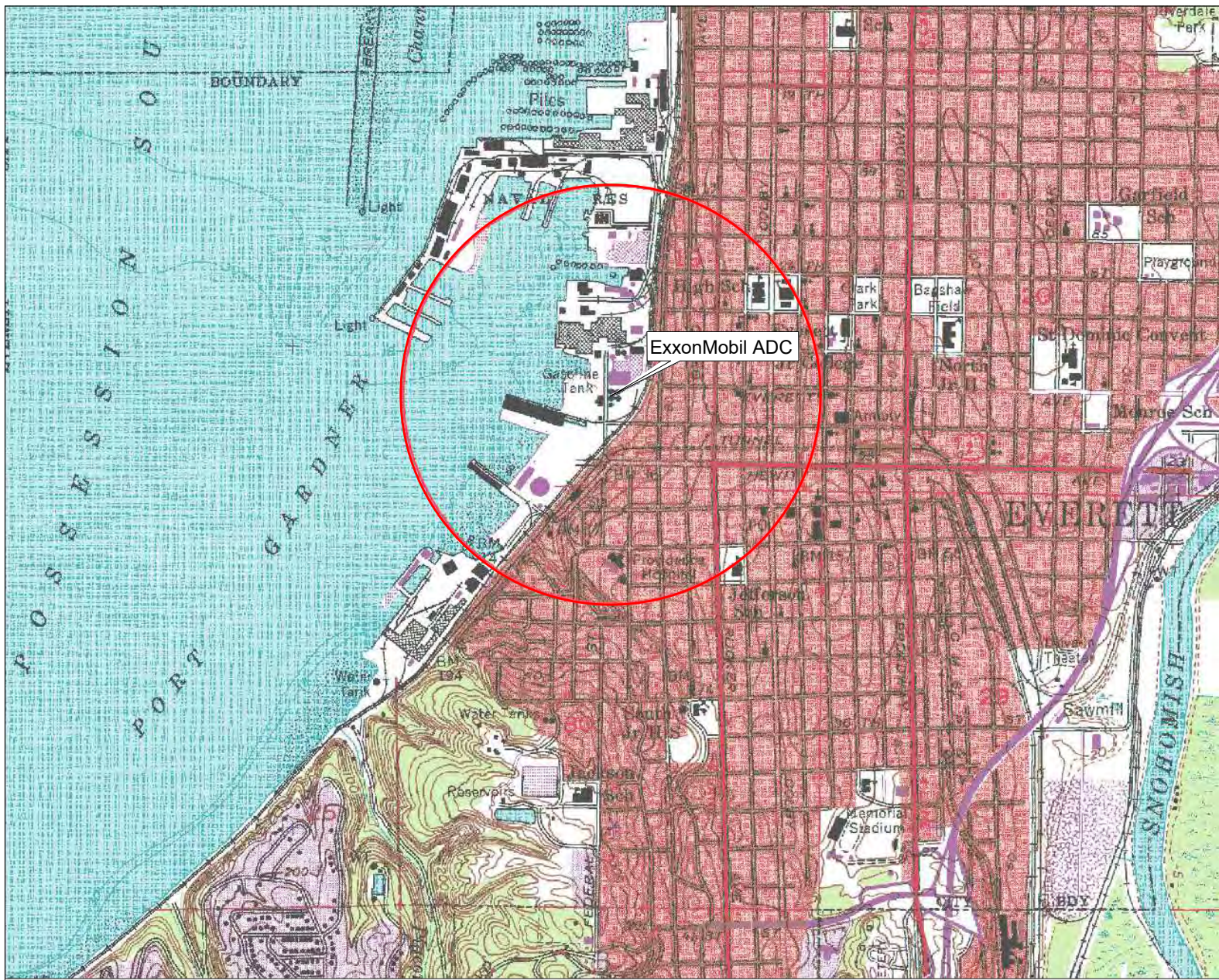
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3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 544 ft Scale: 1 : 19,200 Detail: 13-0 Datum: NAD27

FN 2380003370001

**EXPLANATION**

 1/2-mile radius circle



**APPROXIMATE SCALE**



**SITE LOCATION MAP**

EXXONMOBIL ADC  
 2717/2731 Federal Avenue  
 Everett, Washington

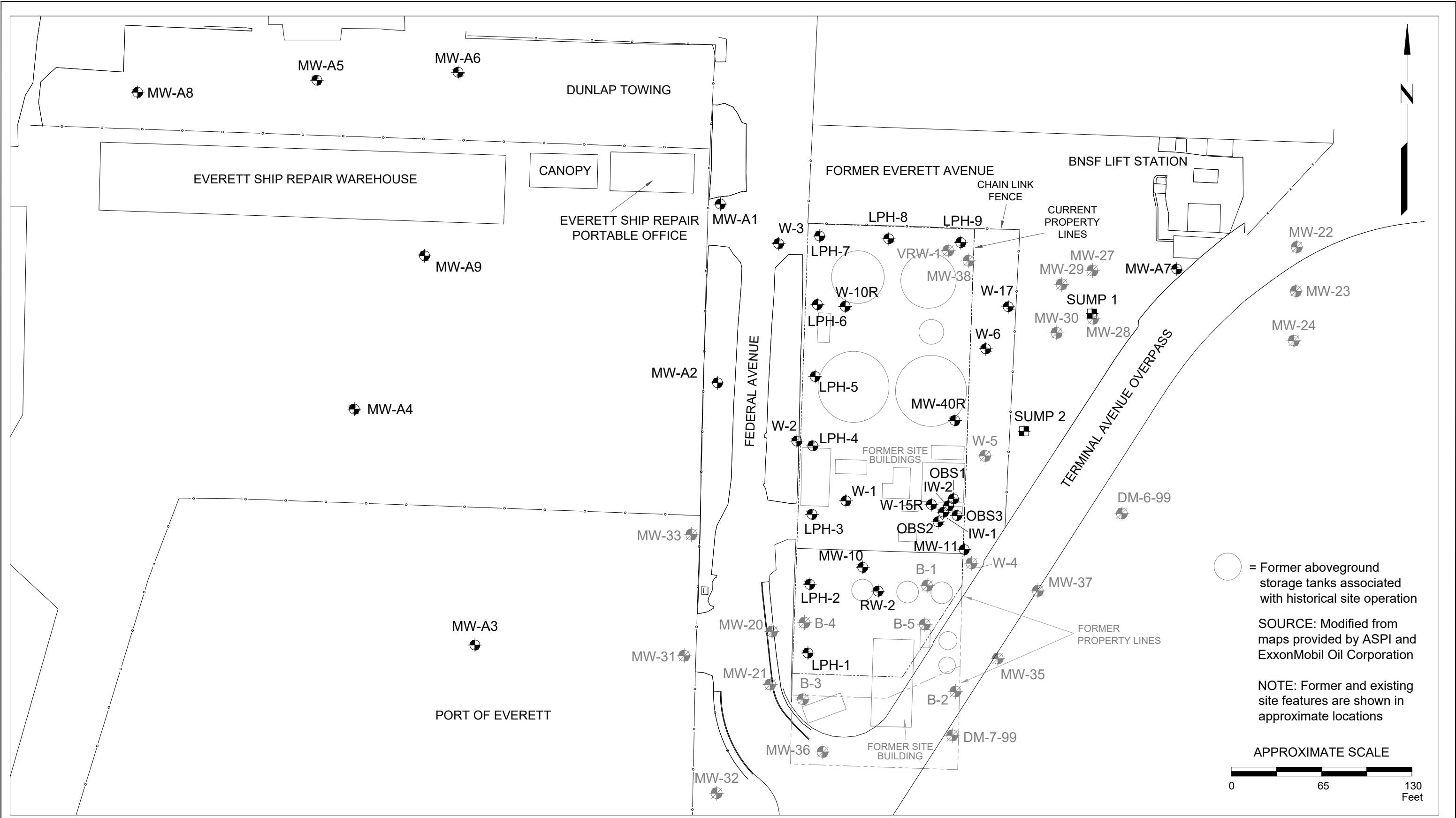
**PROJECT NO.**

238000337

**PLATE**

1

LEC: 01/24/23



FN 2380003370002

# GENERALIZED SITE PLAN

EXXOMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

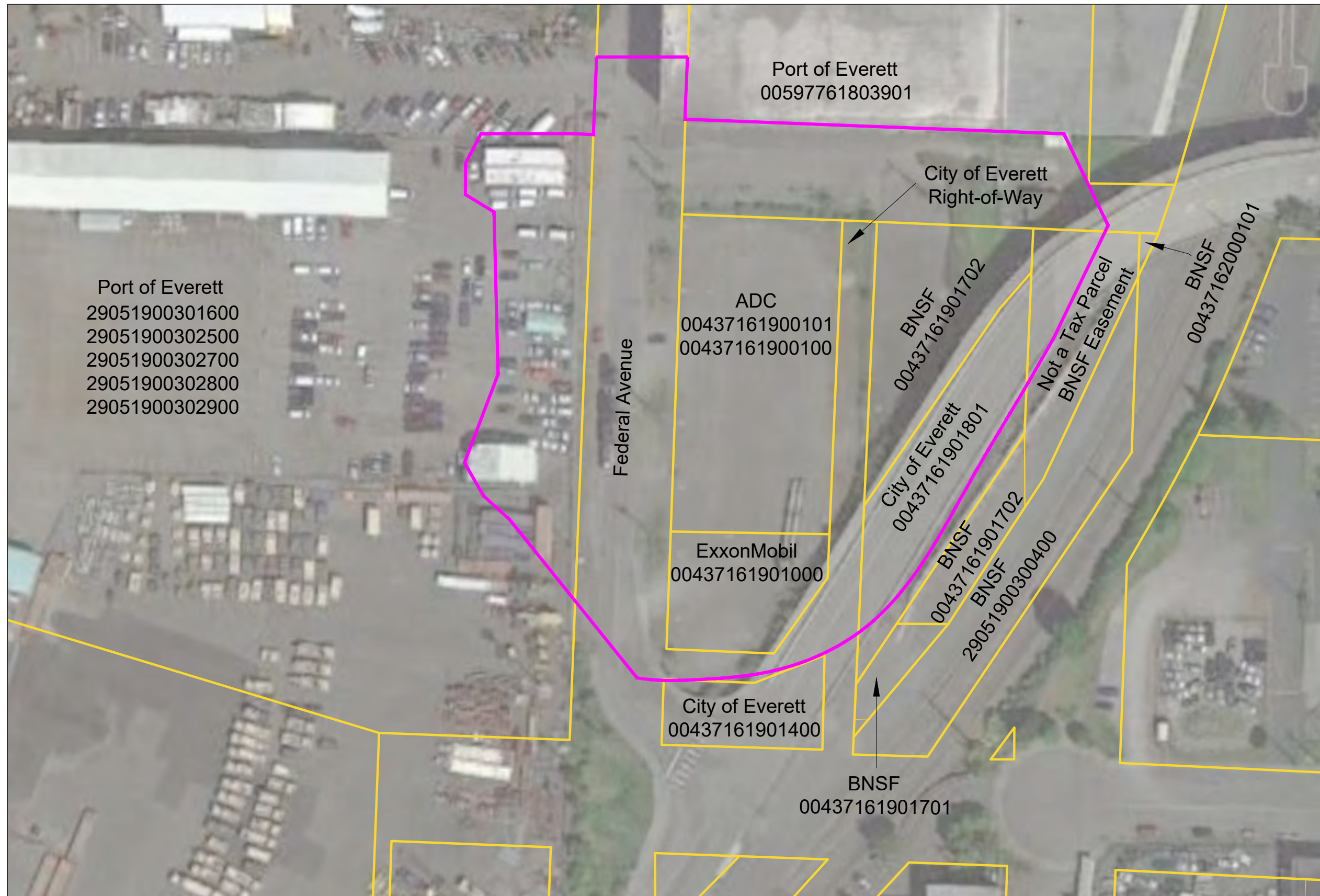


**EXPLANATION**

- MW-A9 Groundwater Monitoring Well
- SUMP 2 Groundwater Sump
- MW-38 Destroyed Groundwater Monitoring Well
- OBS1 Observation Well



**PROJECT NO.**  
238000337

**PLATE**  
2  
LEC: 03/28/23



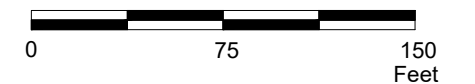
Port of Everett  
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**EXPLANATION**

-  MTCA Site Boundary
-  Tax Parcel Boundary

SOURCE: Modified from maps provided by the Snohomish County Assessor

APPROXIMATE SCALE



FN 2380003370002

**SITE BOUNDARY MAP**

EXXONMOBIL ADC  
 2717/2731 Federal Avenue  
 Everett, Washington

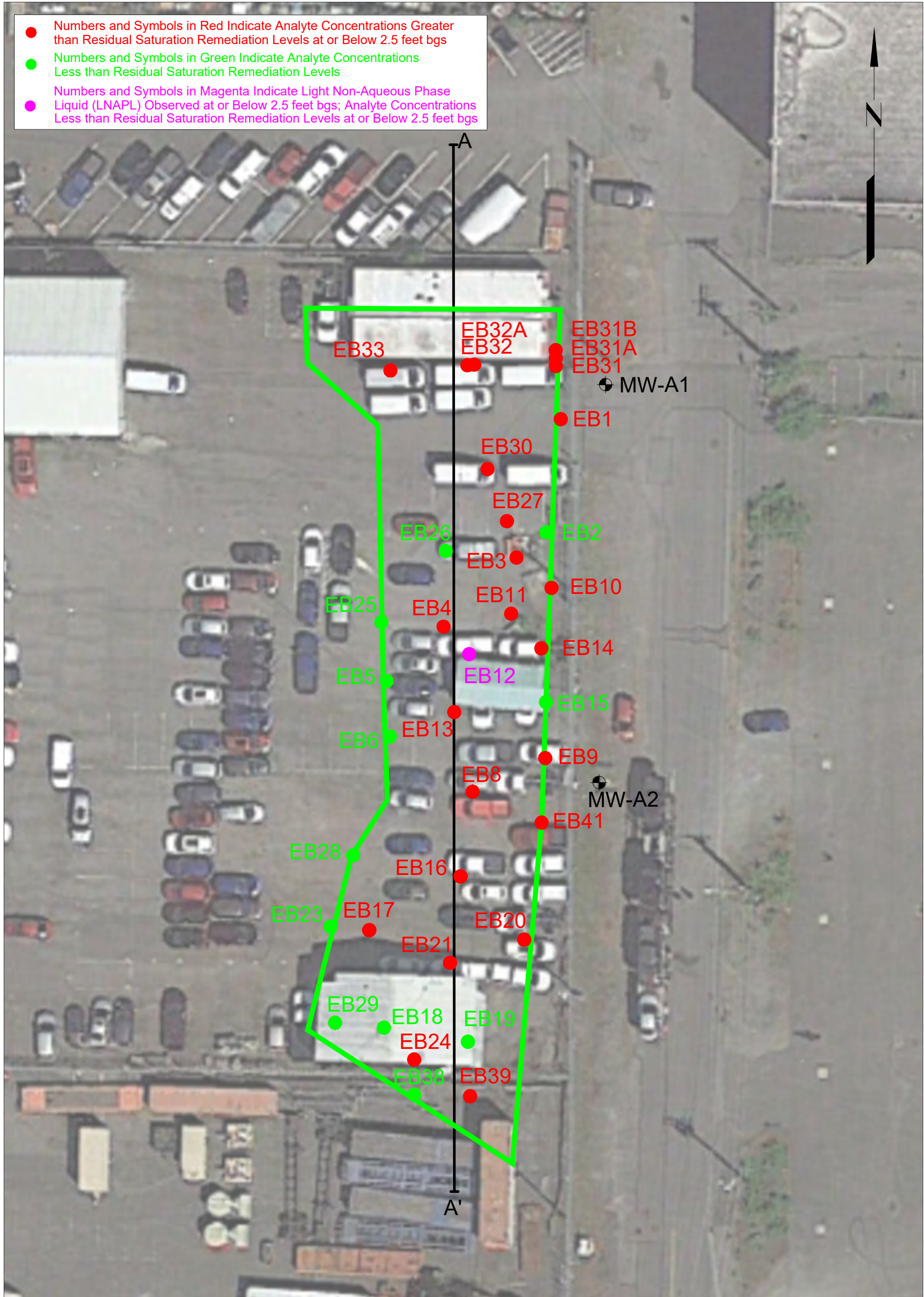


**PROJECT NO.**  
**238000337**

**PLATE**  
**3**

LEC: 03/28/23

- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels at or Below 2.5 feet bgs
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Magenta Indicate Light Non-Aqueous Phase Liquid (LNAPL) Observed at or Below 2.5 feet bgs; Analyte Concentrations Less than Residual Saturation Remediation Levels at or Below 2.5 feet bgs



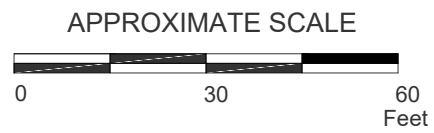
FN 2380003370002

SOURCE: Modified from images provided by Google Earth

**EXPLANATION**

- MW-A2  
● Groundwater Monitoring Well
- EB41  
● Excavation Delineation Boring

- A A'  
— Cross Section Traverse
- BGS Below Ground Surface
- Defined Excavation Extents



**PORT OF EVERETT EXCAVATION DELINEATION MAP - 2.5 FEET BGS**

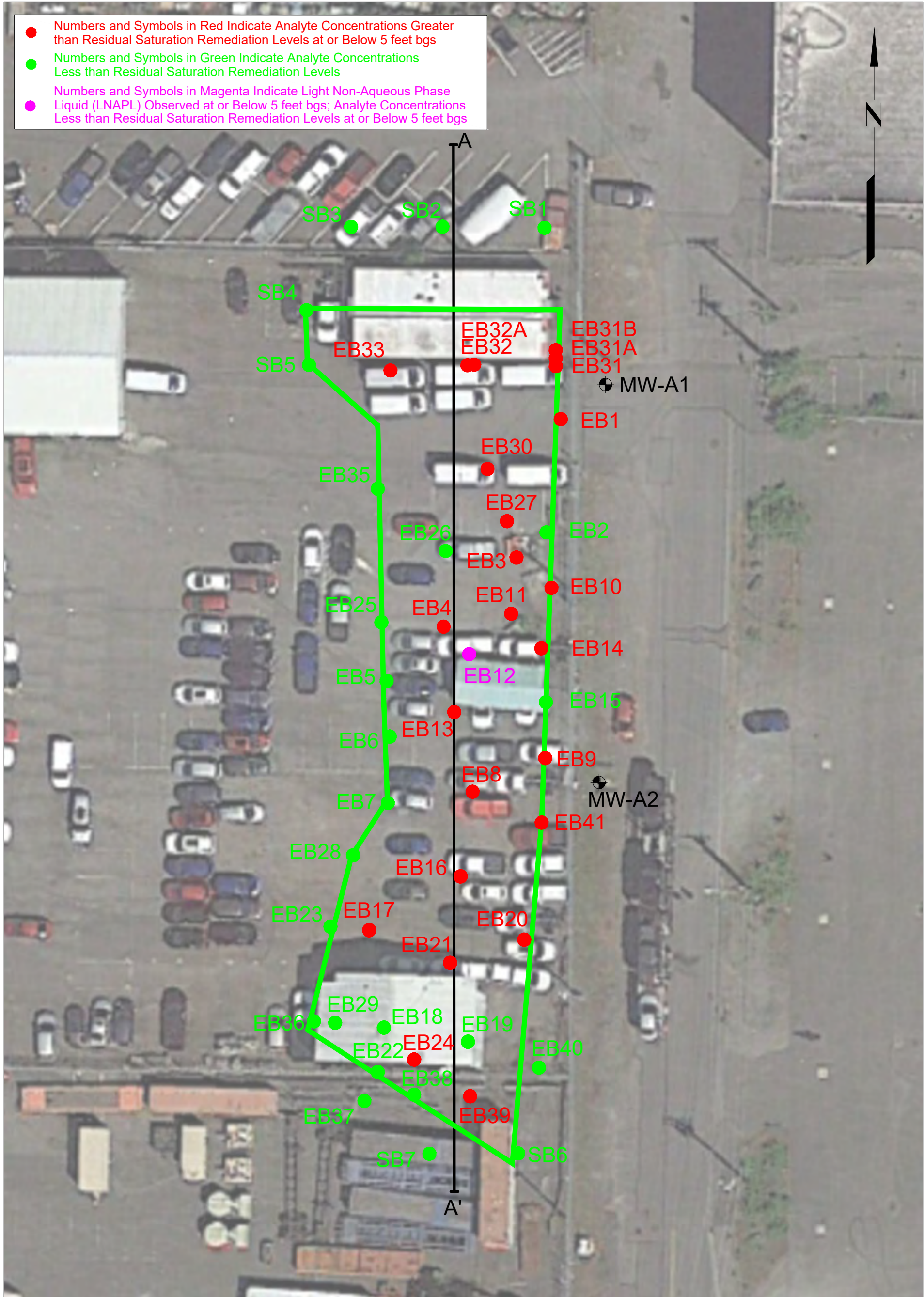
EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**  
238000337

**PLATE**  
4  
LEC: 06/28/23



- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels at or Below 5 feet bgs
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Magenta Indicate Light Non-Aqueous Phase Liquid (LNAPL) Observed at or Below 5 feet bgs; Analyte Concentrations Less than Residual Saturation Remediation Levels at or Below 5 feet bgs



FN 2380003370002

SOURCE: Modified from images provided by Google Earth

**EXPLANATION**

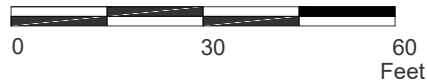
- MW-A2  
● Groundwater Monitoring Well
- EB41  
● Excavation Delineation Boring

A A'  
— Cross Section Traverse

BGS Below Ground Surface

— Defined Excavation Extents

**APPROXIMATE SCALE**



**PORT OF EVERETT EXCAVATION DELINEATION MAP - 5 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**

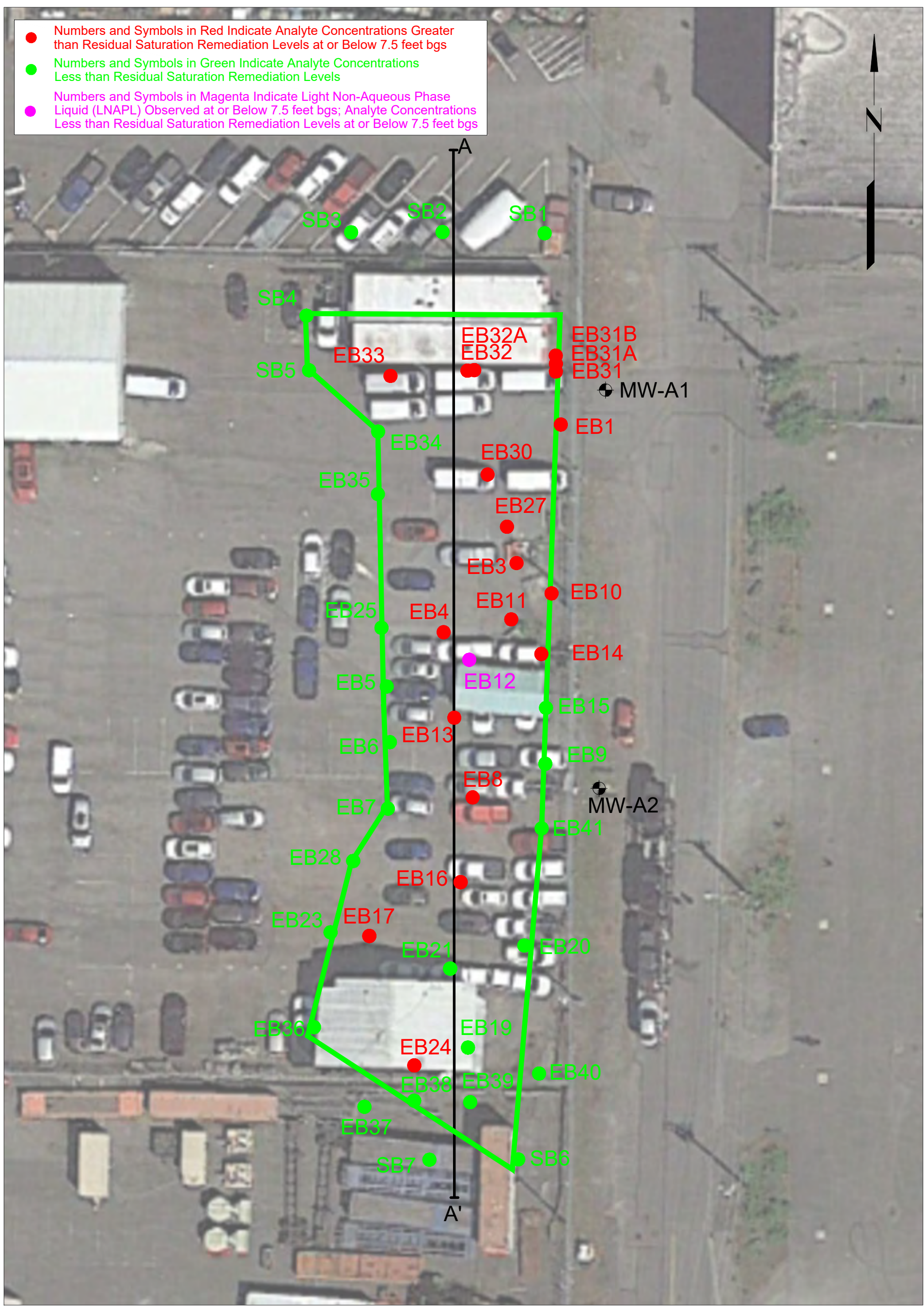
238000337

**PLATE**

5

LEC: 06/28/23

- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels at or Below 7.5 feet bgs
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Magenta Indicate Light Non-Aqueous Phase Liquid (LNAPL) Observed at or Below 7.5 feet bgs; Analyte Concentrations Less than Residual Saturation Remediation Levels at or Below 7.5 feet bgs



FN 2380003370002

SOURCE: Modified from images provided by Google Earth

**EXPLANATION**

- MW-A2  
● Groundwater Monitoring Well
- EB41  
● Excavation Delineation Boring

A A'  
— Cross Section Traverse

BGS Below Ground Surface

— Defined Excavation Extent

**APPROXIMATE SCALE**



**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

- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels at or Below 10 feet bgs
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Magenta Indicate Light Non-Aqueous Phase Liquid (LNAPL) Observed at or Below 10 feet bgs; Analyte Concentrations Less than Residual Saturation Remediation Levels at or Below 10 feet bgs



FN 2380003370002

SOURCE: Modified from images provided by Google Earth

**EXPLANATION**

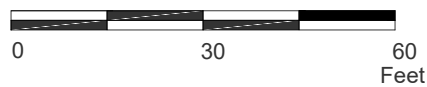
- MW-A2  
● Groundwater Monitoring Well
- EB41  
● Excavation Delineation Boring

A A'  
— Cross Section Traverse

BGS Below Ground Surface

— Defined Excavation Extents

**APPROXIMATE SCALE**



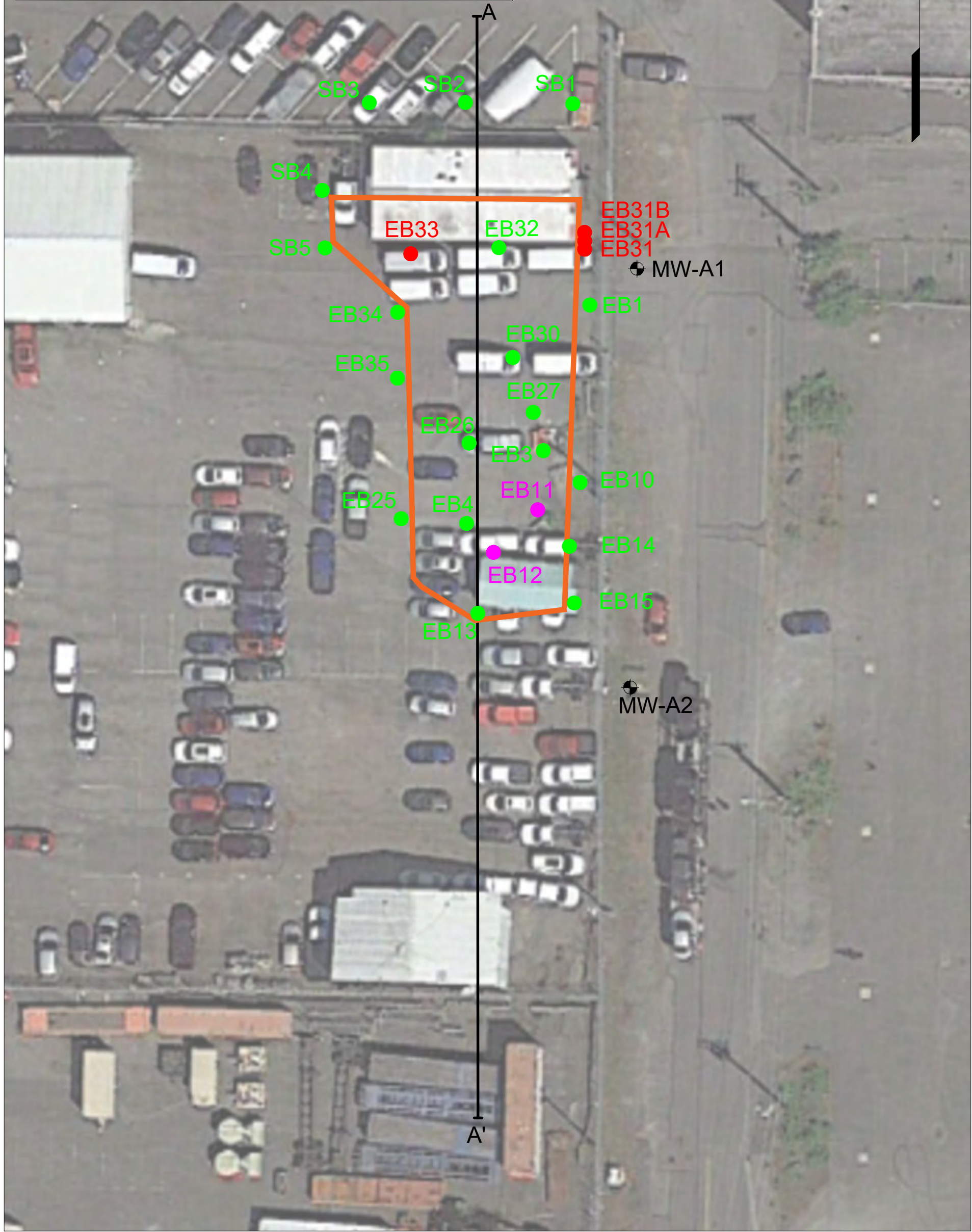
**PORT OF EVERETT EXCAVATION DELINEATION MAP - 10 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**  
238000337

**PLATE**  
7  
LEC: 06/28/23

- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels at or Below 12.5 feet bgs
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
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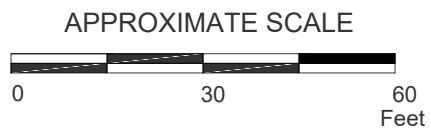
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SOURCE: Modified from images provided by Google Earth

**EXPLANATION**

- MW-A2  
● Groundwater Monitoring Well
- EB41  
● Excavation Delineation Boring

- A A'  
— Cross Section Traverse
- BGS  
Below Ground Surface
- Defined Excavation Extents



**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

- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels at or Below 15' bgs
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
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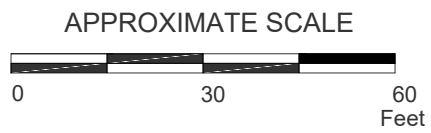
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SOURCE: Modified from images provided by Google Earth

**EXPLANATION**

- MW-A2  
● Groundwater Monitoring Well
- EB41  
● Excavation Delineation Boring

- A A  
— Cross Section Traverse
- BGS Below Ground Surface
- Defined Excavation Extents



**PORT OF EVERETT EXCAVATION DELINEATION MAP - 15 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**  
238000337

**PLATE**  
9

LEC: 06/28/23

- Numbers and Symbols in Red Indicate Analyte Concentrations Greater than Residual Saturation Remediation Levels at or Below 17.5' bgs
- Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels
- Numbers and Symbols in Magenta Indicate Light Non-Aqueous Phase Liquid (LNAPL) Observed at or Below 17.5 feet bgs; Analyte Concentrations Less than Residual Saturation Remediation Levels at or Below 17.5 feet bgs



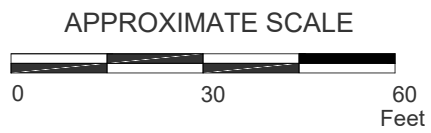
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SOURCE: Modified from images provided by Google Earth

**EXPLANATION**

- MW-A2  
● Groundwater Monitoring Well
- EB41  
● Excavation Delineation Boring

- A A'  
—|— Cross Section Traverse
- BGS Below Ground Surface
- Defined Excavation Extents



**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



● Numbers and Symbols in Green Indicate Analyte Concentrations Less than Residual Saturation Remediation Levels





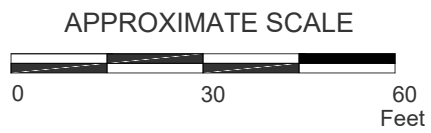
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SOURCE: Modified from images provided by Google Earth

**EXPLANATION**

- MW-A2  
 Groundwater Monitoring Well
- EB41  
 Excavation Delineation Boring

- A A'  
 Cross Section Traverse
-  Defined Excavation Extents

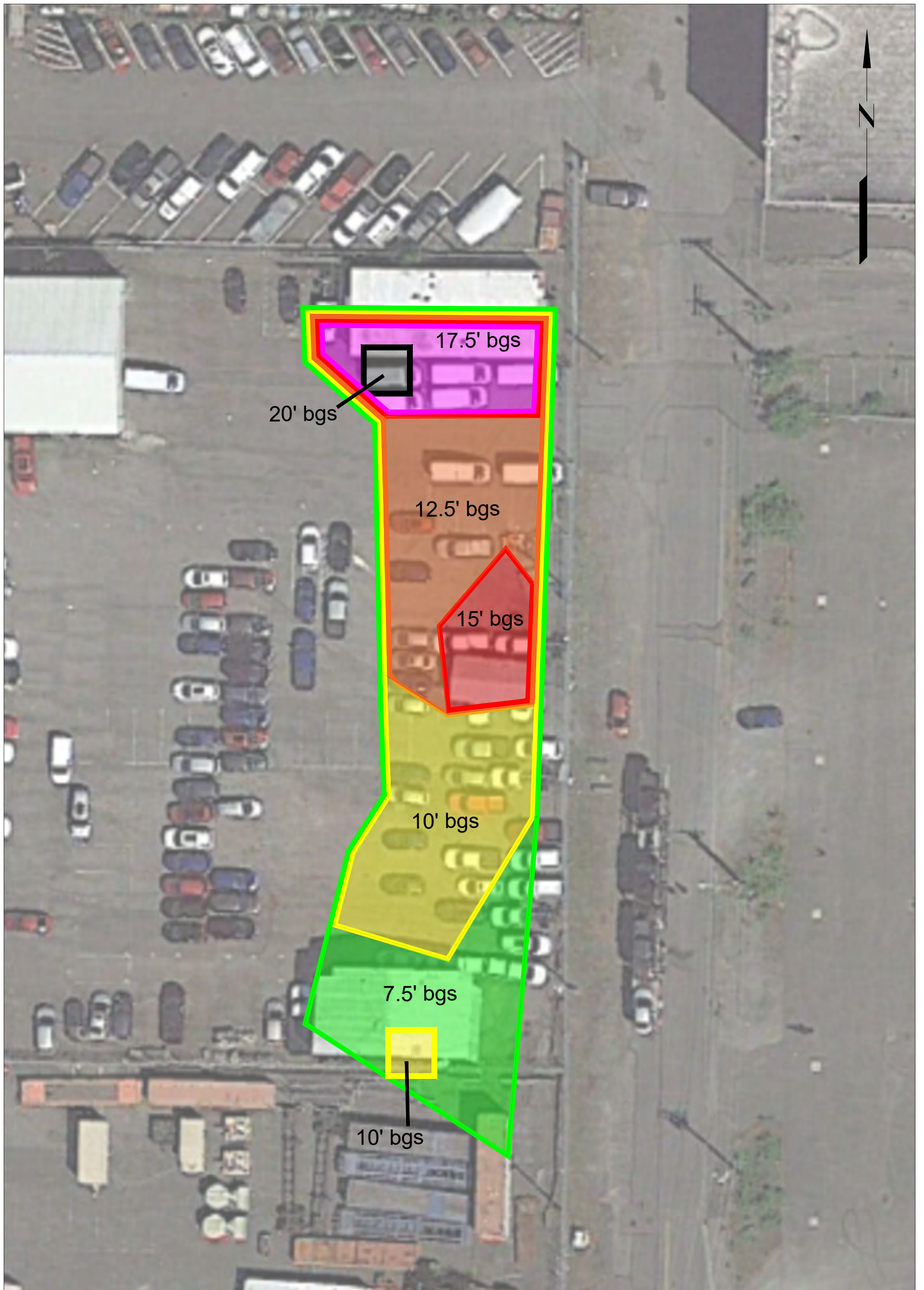


**PORT OF EVERETT EXCAVATION DELINEATION MAP - 20 FEET BGS**

EXXONMOBIL ADC  
 2717/2731 Federal Avenue  
 Everett, Washington

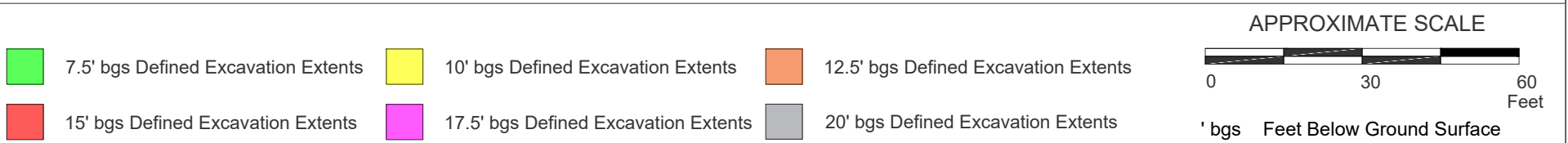
**PROJECT NO.**  
 238000337

**PLATE**  
 11  
 LEC: 06/28/23



FN 2380003370002

SOURCE: Modified from images provided by Google Earth



**PORT OF EVERETT EXCAVATION EXTENTS BY DEPTH**

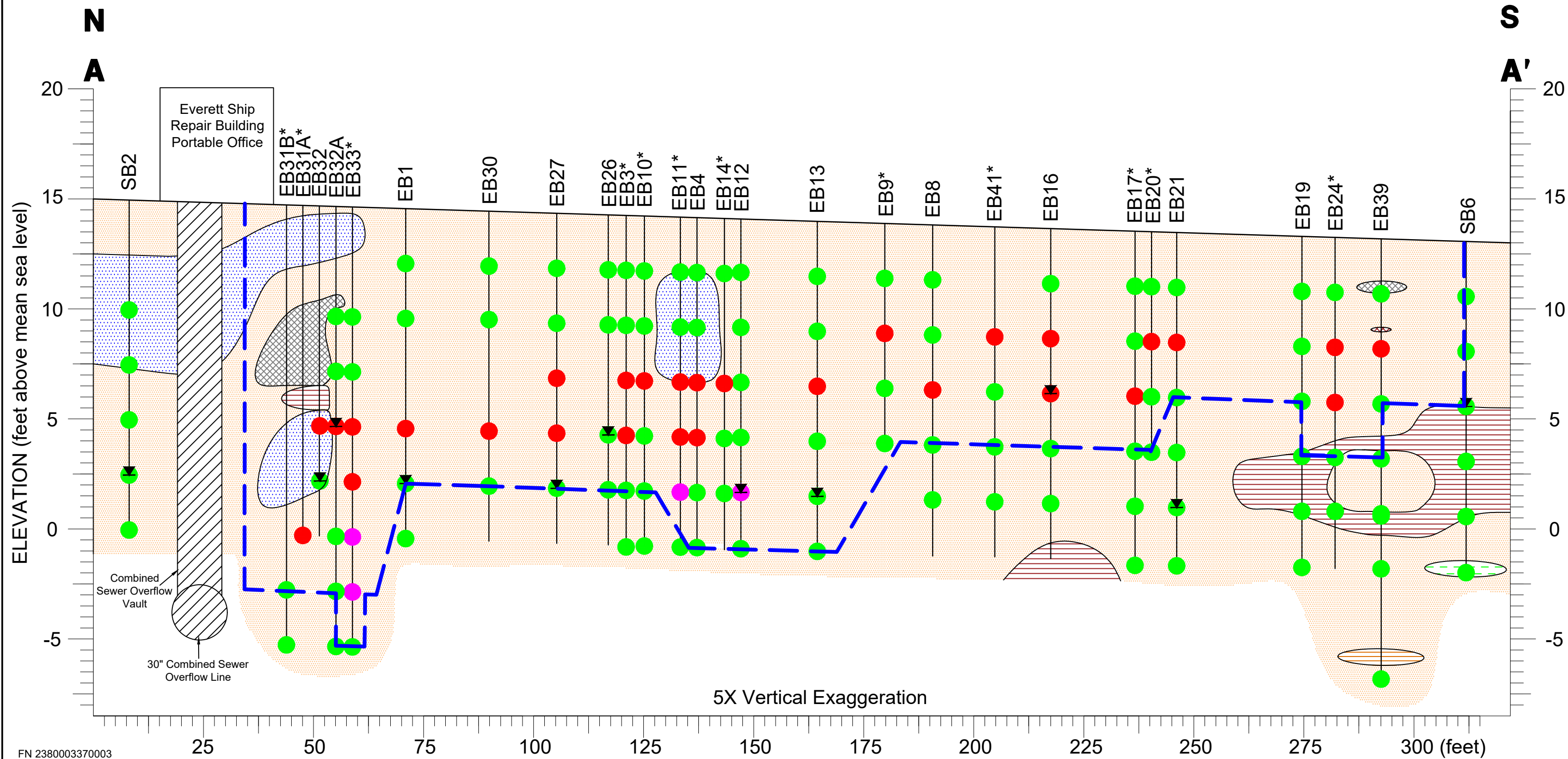
EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**  
238000337

**PLATE**  
12  
LEC: 06/28/23



\* = Borings EB1, EB3, EB9, EB10, EB11, EB14, EB17, EB20, EB24, EB31A, EB31B, EB33, and EB41 are projected onto the cross section for hydrocarbon concentration distribution purposes; projected borings were not used to construct lithology illustration



FN 2380003370003



**PORT OF EVERETT CROSS SECTION N-S**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**EXPLANATION**

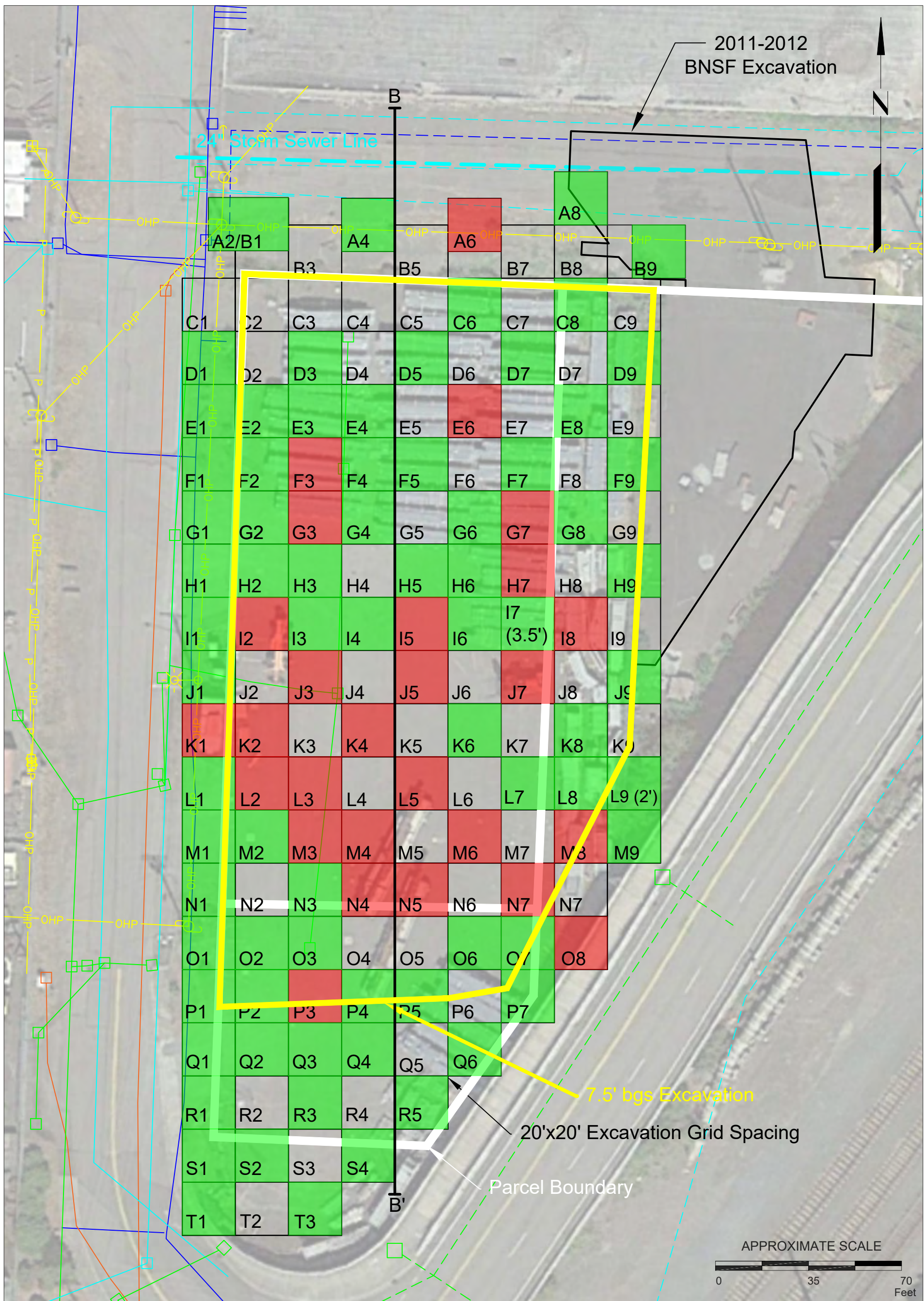
- ▼ Water Level Encountered During Drilling
- Hydrocarbon Concentrations In Soil Less Than Site-Specific Residual Saturation Remediation Levels
- Hydrocarbon Concentrations In Soil Greater Than Site-Specific Residual Saturation Remediation Levels
- LNAPL Observed During Drilling
- Port Interim Action Excavation Extents
- Coarse-grained Gravelly Sediments (GW, GC)
- Coarse-grained Sandy Sediments (SW, SP, SM, SC)
- Fine-grained Sediments (CL, CH, ML)
- Organic Sediments (OH, PT, Wood Debris)
- Concrete Debris

**PROJECT**

238000337

**PLATE**

13  
LEC: 02/27/23



FN 2380003370002

SOURCE: Modified from Images Provided by Google Earth

**EXPLANATION**

- Red Indicates Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Green Indicates Analyte Concentrations Less than Residual Saturation Remediation Levels

BGS Below Ground Surface

B B' Cross Section Traverse

**UTILITIES LEGEND**

- TELEPHONE
- ELECTRICAL
- WATER
- STORM DRAIN
- SEWER
- POWER
- POWER, COMMUNICATION, AND/OR SECURITY CAMERA POLE



**EXXONMOBIL ADC EXCAVATION DELINEATION MAP - 2.5 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

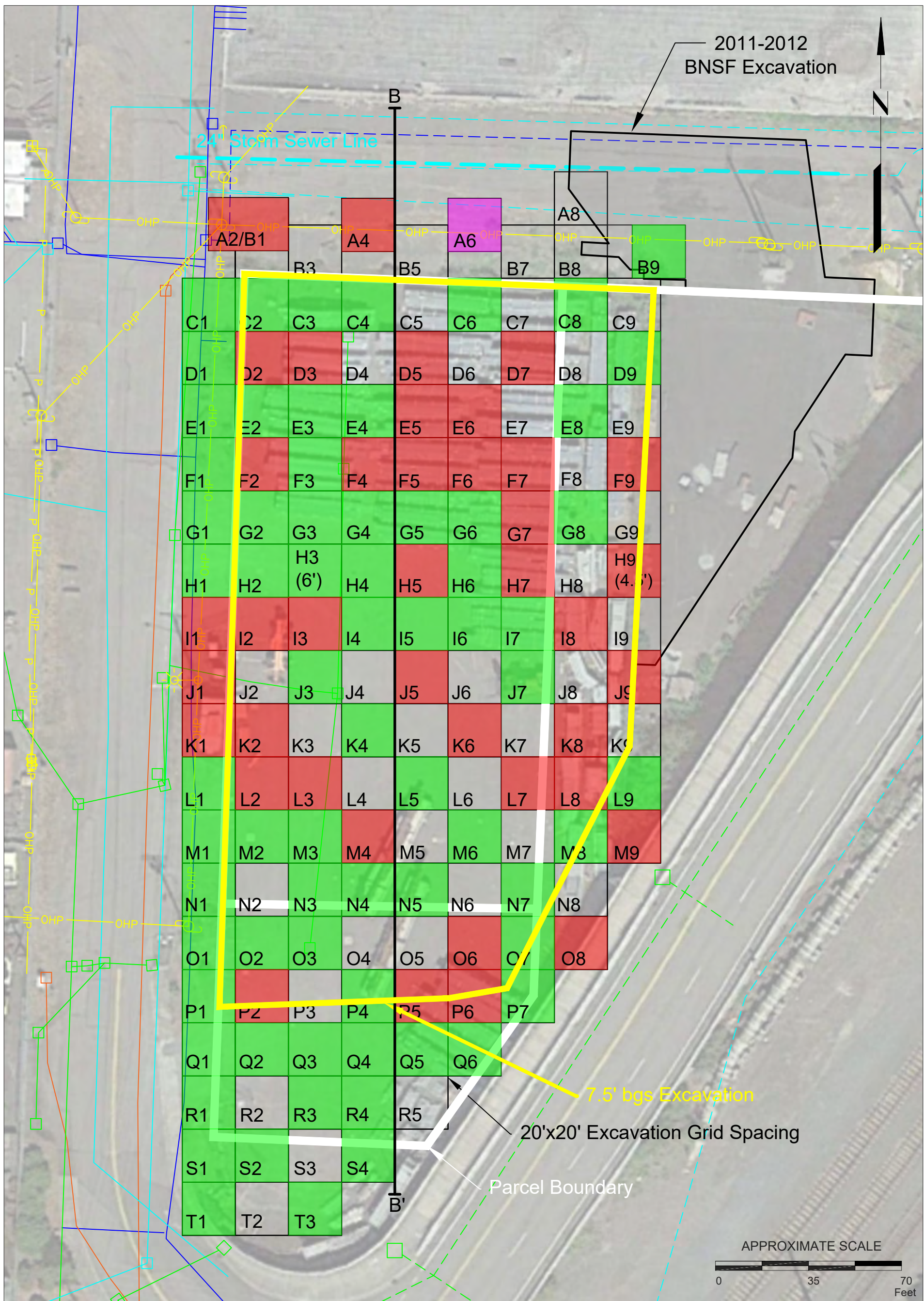
**PROJECT NO.**

238000337

**PLATE**

14

RRT: 02/28/23



FN 2380003370002

SOURCE: Modified from Images Provided by Google Earth

**EXPLANATION**

- Red Indicates Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Green Indicates Analyte Concentrations Less than Residual Saturation Remediation Levels

Magenta Indicates Light Non-Aqueous Phase Liquid (LNAPL) Observed; Analyte Concentrations Less than Residual Saturation Remediation Levels

B B' Cross Section Traverse

BGS Below Ground Surface

**UTILITIES LEGEND**

- TELEPHONE
- ELECTRICAL
- WATER
- STORM DRAIN
- SEWER
- POWER
- POWER, COMMUNICATION, AND/OR SECURITY CAMERA POLE

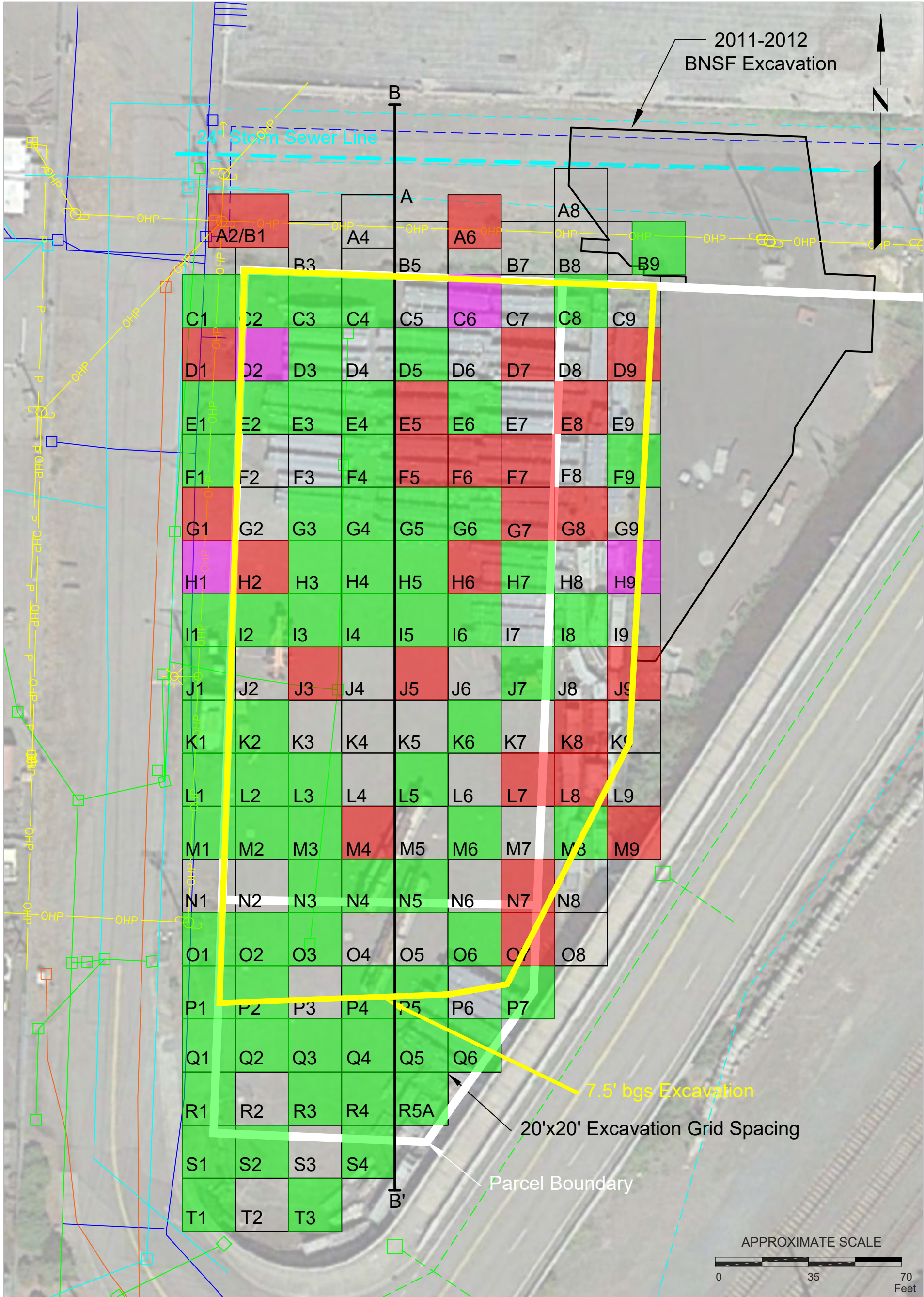


**EXXONMOBIL ADC EXCAVATION DELINEATION MAP - 5 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**  
238000337

**PLATE**  
15  
RRT: 02/28/23



FN 2380003370002

SOURCE: Modified from Images Provided by Google Earth

**EXPLANATION**

- Red Indicates Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Green Indicates Analyte Concentrations Less than Residual Saturation Remediation Levels

■ Magenta Indicates Light Non-Aqueous Phase Liquid (LNAPL) Observed; Analyte Concentrations Less than Residual Saturation Remediation Levels

B B' Cross Section Traverse

BGS Below Ground Surface

**UTILITIES LEGEND**

- TELEPHONE
- ELECTRICAL
- WATER
- STORM DRAIN
- SEWER
- POWER
- POWER, COMMUNICATION, AND/OR SECURITY CAMERA POLE

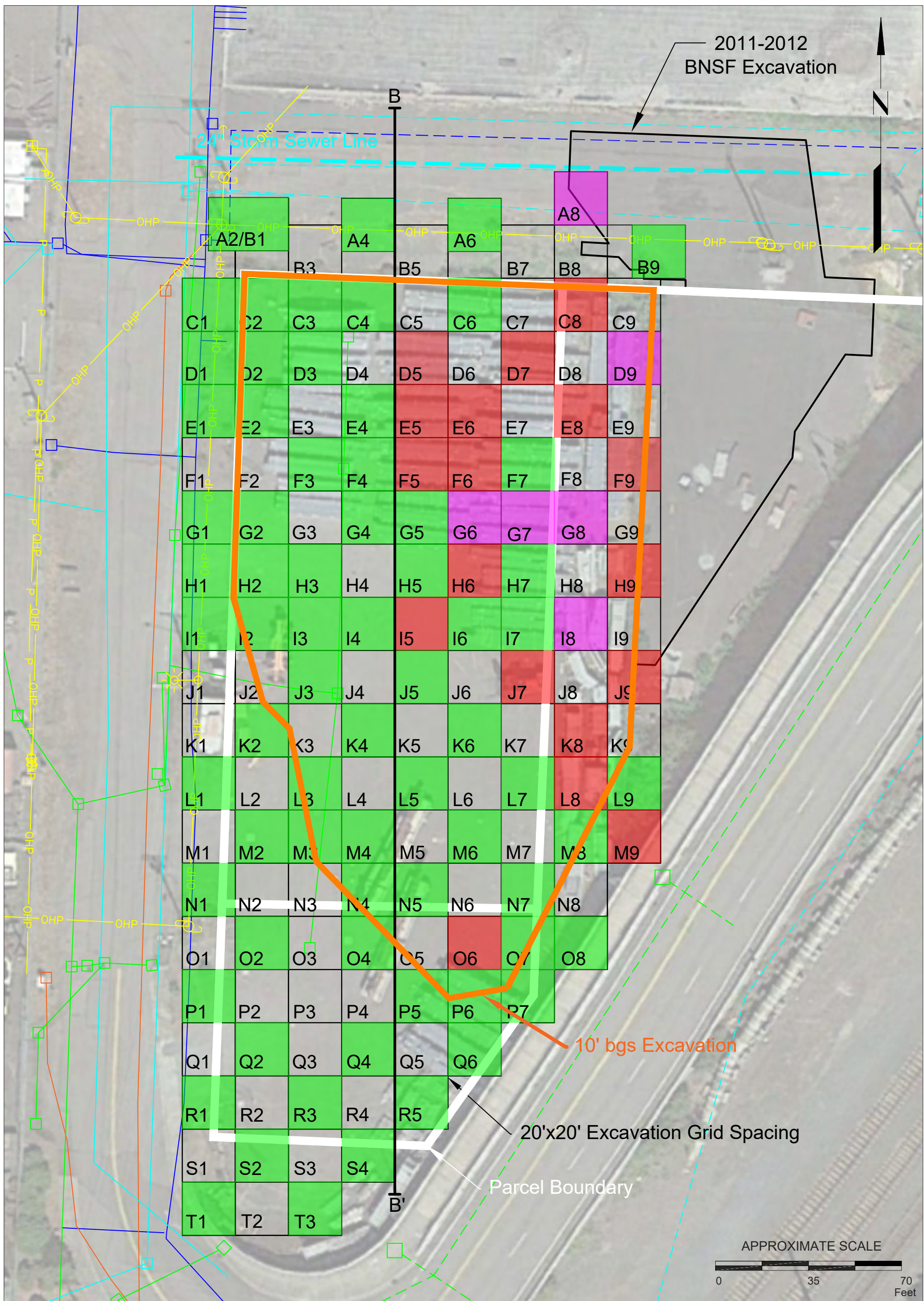


**EXXONMOBIL ADC EXCAVATION DELINEATION MAP - 7.5 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**  
238000337

**PLATE**  
16  
RRT: 02/28/23



FN 2380003370002

SOURCE: Modified from Images Provided by Google Earth

**EXPLANATION**

- Red Indicates Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Green Indicates Analyte Concentrations Less than Residual Saturation Remediation Levels

Magenta Indicates Light Non-Aqueous Phase Liquid (LNAPL) Observed; Analyte Concentrations Less than Residual Saturation Remediation Levels

B B' Cross Section Traverse

BGS Below Ground Surface

**UTILITIES LEGEND**

- TELEPHONE
- ELECTRICAL
- WATER
- STORM DRAIN
- SEWER
- POWER
- POWER, COMMUNICATION, AND/OR SECURITY CAMERA POLE

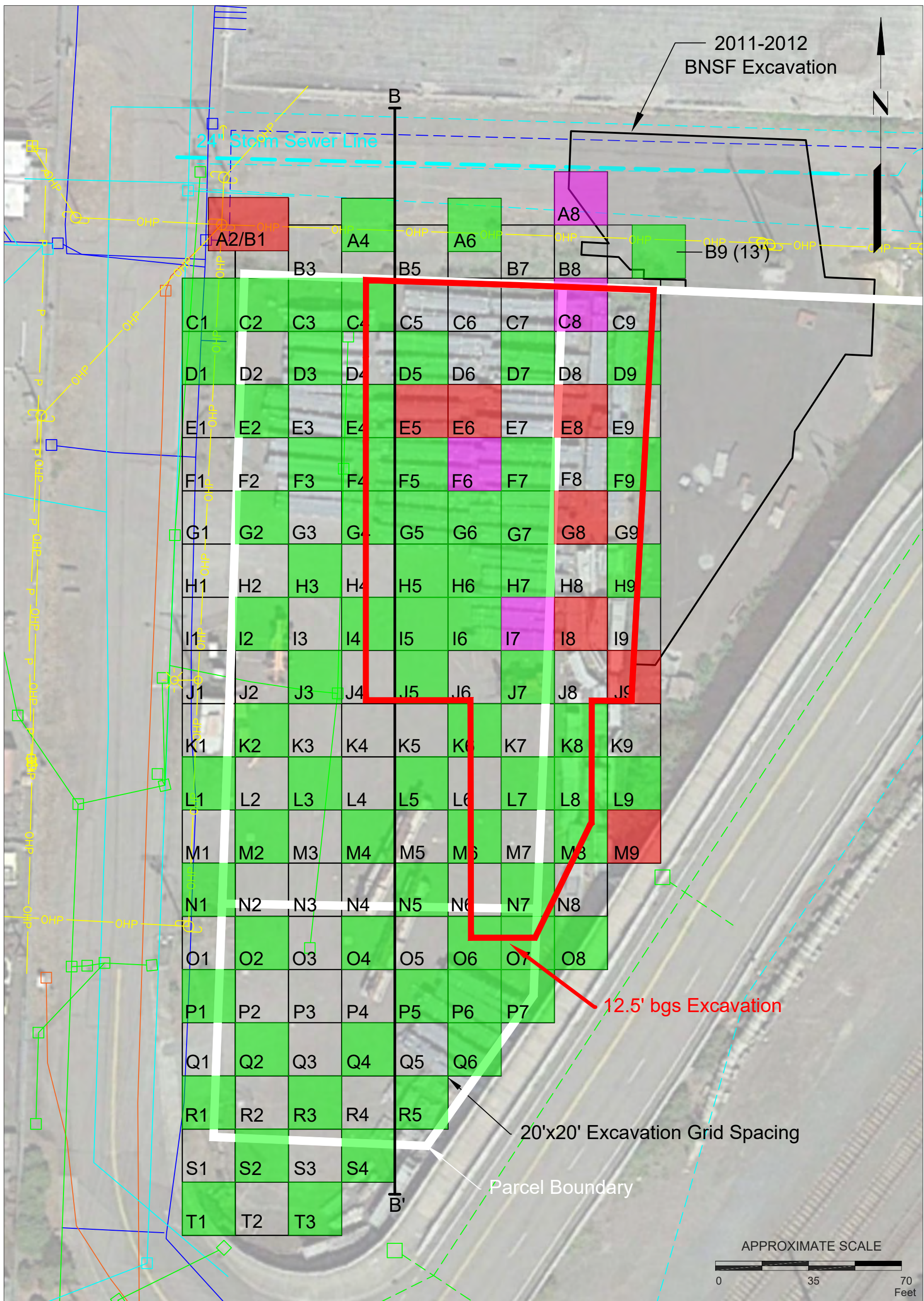


**EXXONMOBIL ADC EXCAVATION DELINEATION MAP - 10 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**  
238000337

**PLATE**  
17  
RRT: 02/28/23



FN 2380003370002

SOURCE: Modified from Images Provided by Google Earth

**EXPLANATION**

- Red Indicates Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Green Indicates Analyte Concentrations Less than Residual Saturation Remediation Levels

■ Magenta Indicates Light Non-Aqueous Phase Liquid (LNAPL) Observed; Analyte Concentrations Less than Residual Saturation Remediation Levels

B B' Cross Section Traverse

BGS Below Ground Surface

**UTILITIES LEGEND**

- ELECTRICAL
- WATER
- STORM DRAIN
- SEWER
- POWER
- POWER, COMMUNICATION, AND/OR SECURITY CAMERA POLE

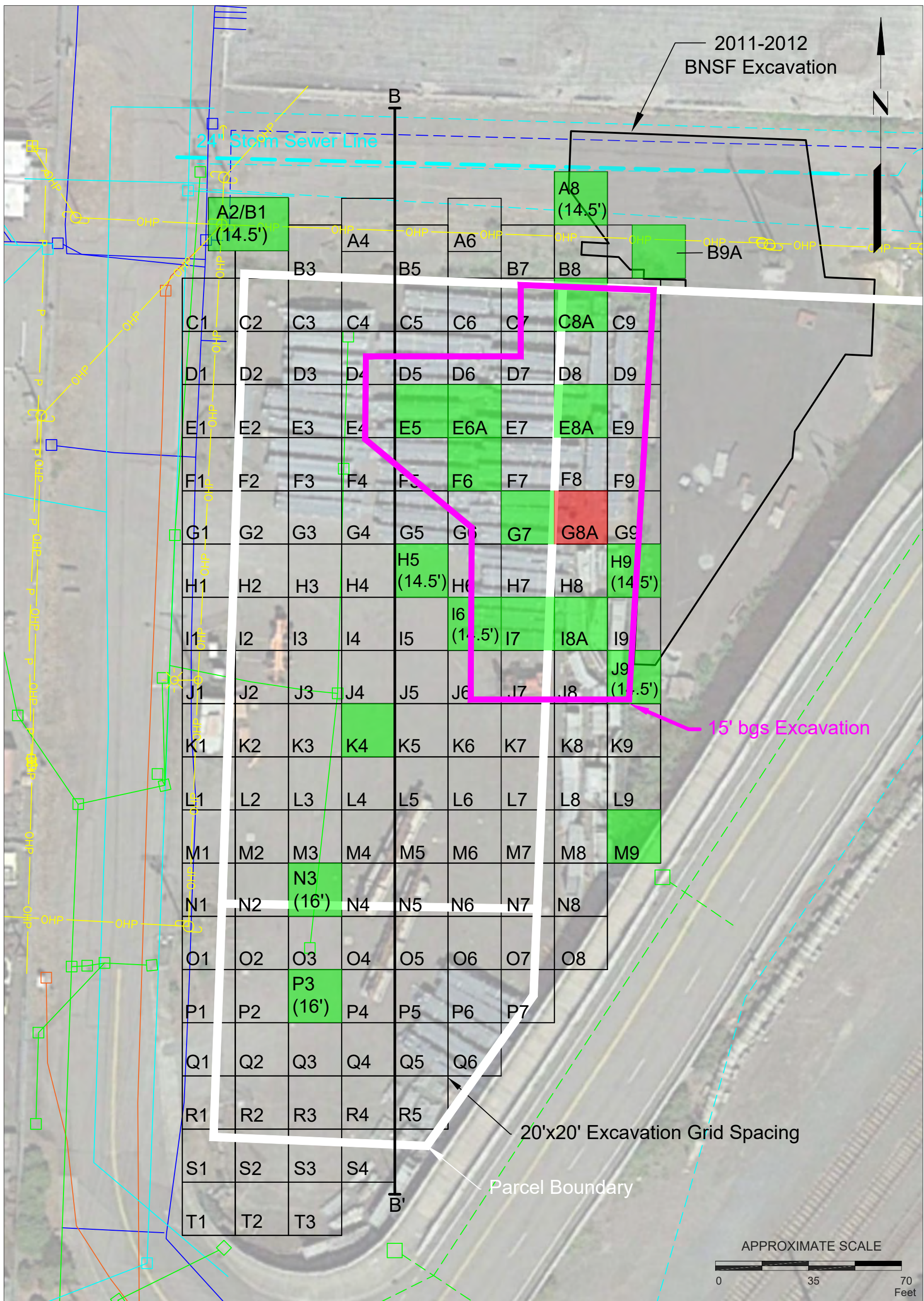


**EXXONMOBIL ADC EXCAVATION DELINEATION MAP - 12.5 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**  
238000337

**PLATE**  
18  
RRT: 02/28/23



FN 2380003370002

SOURCE: Modified from Images Provided by Google Earth

**EXPLANATION**

- Red Indicates Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Green Indicates Analyte Concentrations Less than Residual Saturation Remediation Levels



BGS Below Ground Surface

**UTILITIES LEGEND**

- TELEPHONE
- ELECTRICAL
- WATER
- STORM DRAIN
- SEWER
- POWER
- POWER, COMMUNICATION, AND/OR SECURITY CAMERA POLE



**EXXONMOBIL ADC EXCAVATION DELINEATION MAP - 15 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

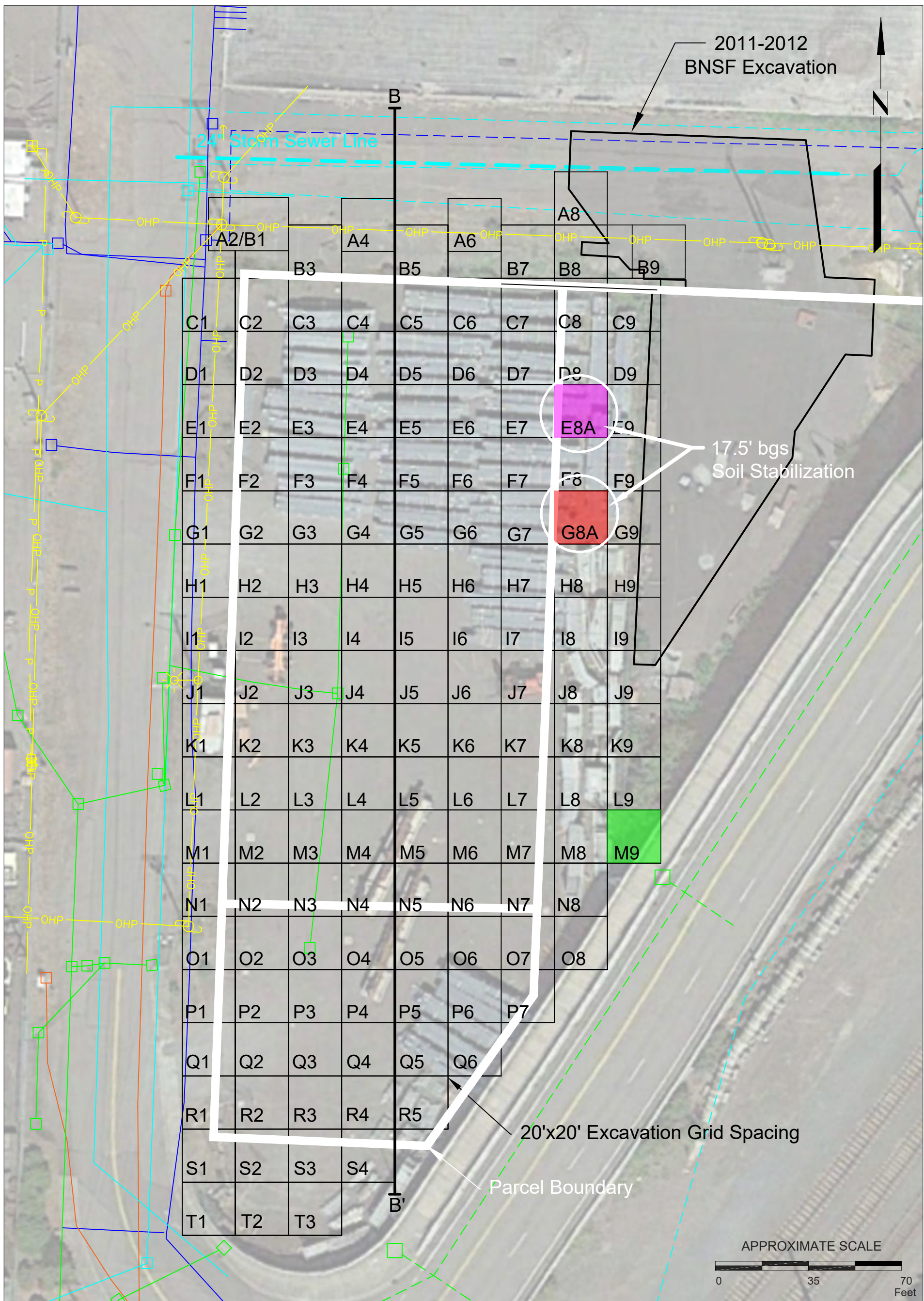
**PROJECT NO.**

238000337

**PLATE**

19

RRT: 02/28/23



FN 2380003370002

SOURCE: Modified from Images Provided by Google Earth

**EXPLANATION**

- Red Indicates Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Green Indicates Analyte Concentrations Less than Residual Saturation Remediation Levels

B B' Cross Section Traverse

BGS Below Ground Surface

**UTILITIES LEGEND**

- TELEPHONE
- ELECTRICAL
- WATER
- STORM DRAIN
- SEWER
- POWER
- POWER, COMMUNICATION, AND/OR SECURITY CAMERA POLE



**EXXONMOBIL ADC EXCAVATION DELINEATION MAP - 17.5 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**

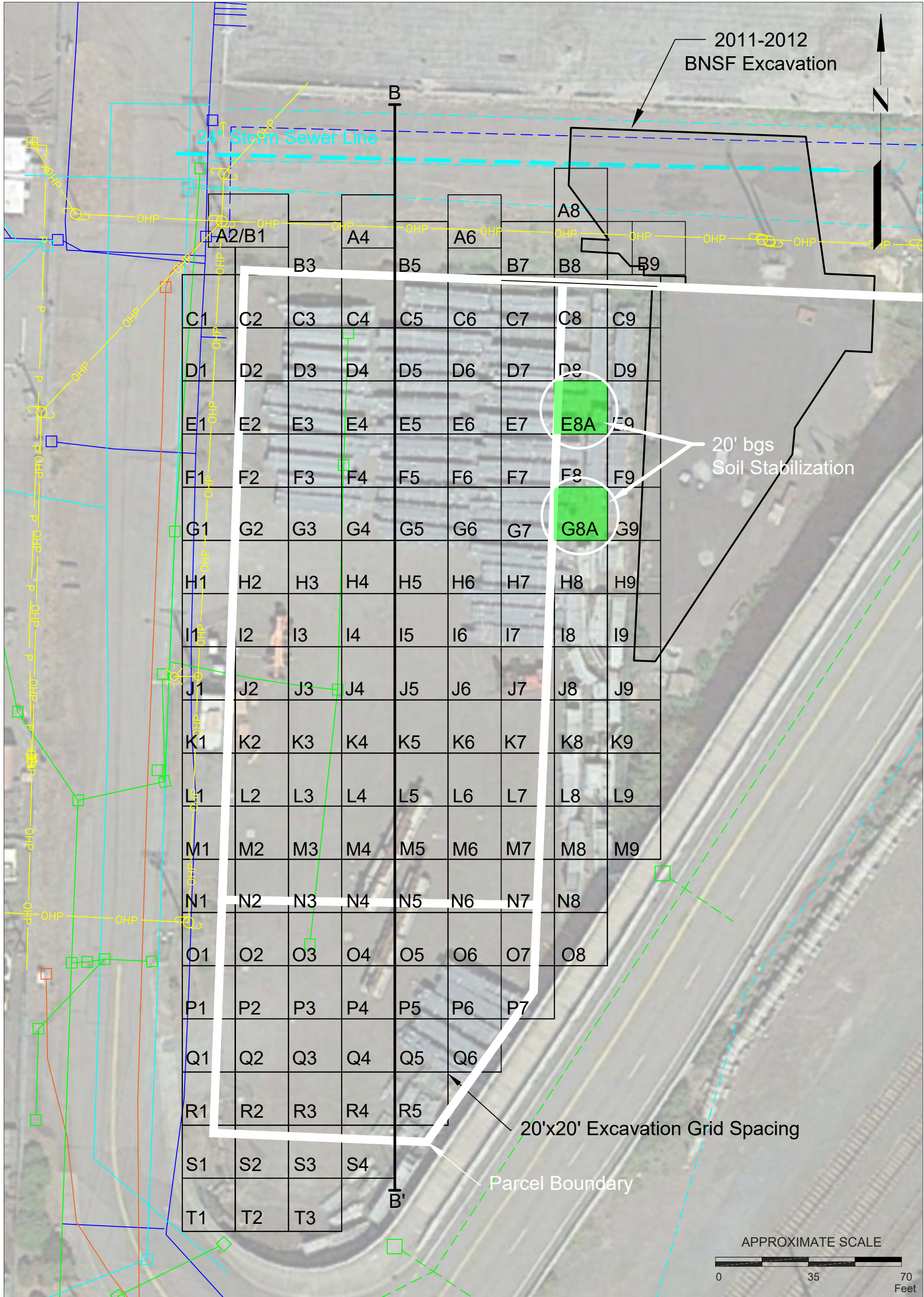
238000337

**PLATE**

20

LEC: 06/27/23





FN 2380003370002

SOURCE: Modified from Images Provided by Google Earth

EXPLANATION

- Red Indicates Analyte Concentrations Greater than Residual Saturation Remediation Levels
- Green Indicates Analyte Concentrations Less than Residual Saturation Remediation Levels



BGS Below Ground Surface

UTILITIES LEGEND

- TELEPHONE
- ELECTRICAL
- WATER
- STORM DRAIN
- SEWER
- POWER
- POWER, COMMUNICATION, AND/OR SECURITY CAMERA POLE



**EXXONMOBIL ADC EXCAVATION DELINEATION MAP - 20 FEET BGS**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

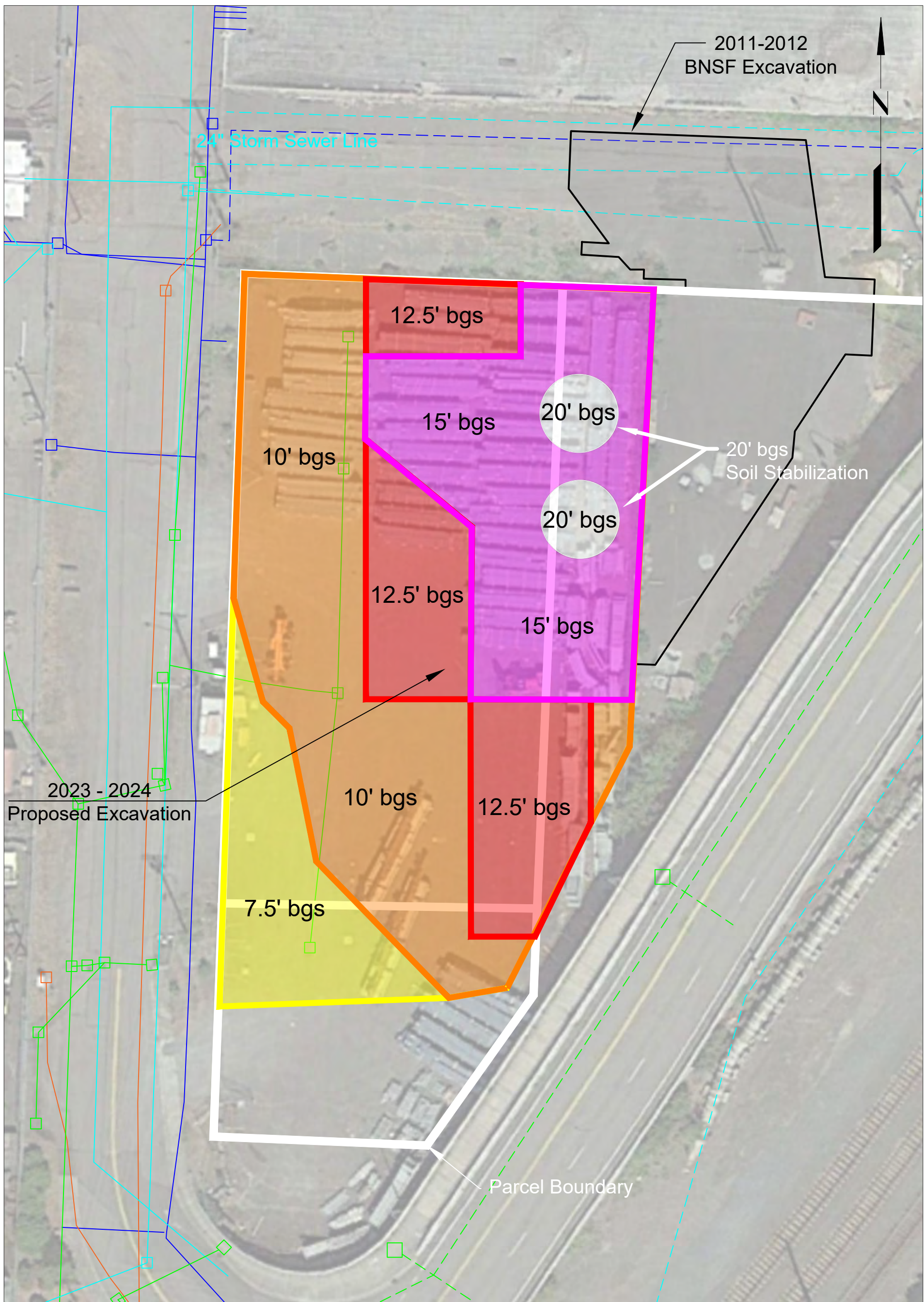
**PROJECT NO.**

238000337

**PLATE**

21







LEC: 06/27/23



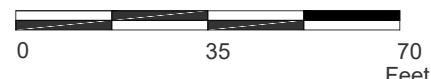
FN 2380003370002

SOURCE: Modified from Images Provided by Google Earth

EXPLANATION

- |  |  |   |
|--|--|---|
|  7.5' bgs Defined Excavation Extents |  12.5' bgs Defined Excavation Extents |  20' bgs Defined Soil Stabilization Extents |
|  10' bgs Defined Excavation Extents  |  15' bgs Defined Excavation Extents   |  2011-2012 BNSF Excavation                  |

APPROXIMATE SCALE



**PROPOSED EXXONMOBIL ADC EXCAVATION EXTENTS BY DEPTH**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**

238000337

**PLATE**

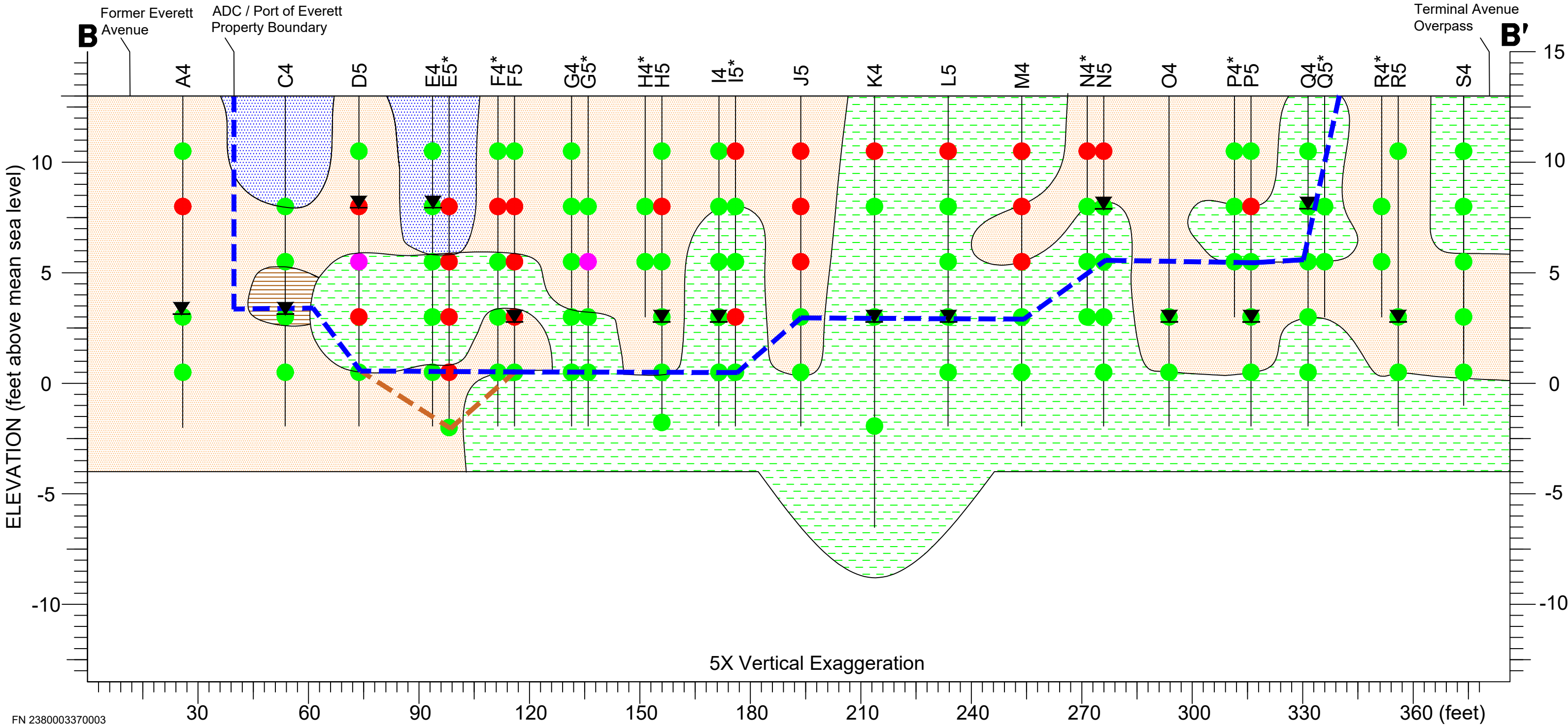
22

LEC: 06/28/23

N

\* = No geologic logging was conducted at borings E5, F4, G5, H4, I5, N4, P4, Q5, and R4

S



FN 2380003370003



### EXXONMOBIL ADC CROSS SECTION N-S

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

#### EXPLANATION

- Water Level Encountered During Drilling
- Hydrocarbon Concentrations In Soil Less Than Site-Specific Residual Saturation Remediation Levels
- Hydrocarbon Concentrations In Soil Greater Than Site-Specific Residual Saturation Remediation Levels
- LNAPL Observed During Drilling
- Proposed Excavation Extents
- Proposed In-Situ Soil Stabilization Extents
- Coarse-grained Gravelly Sediments (GW, GP, GC)
- Coarse-grained Sandy Sediments (SW, SP, SM, SC)
- Fine-grained Sediments (CL, ML)
- Organic Sediments (Wood Debris)

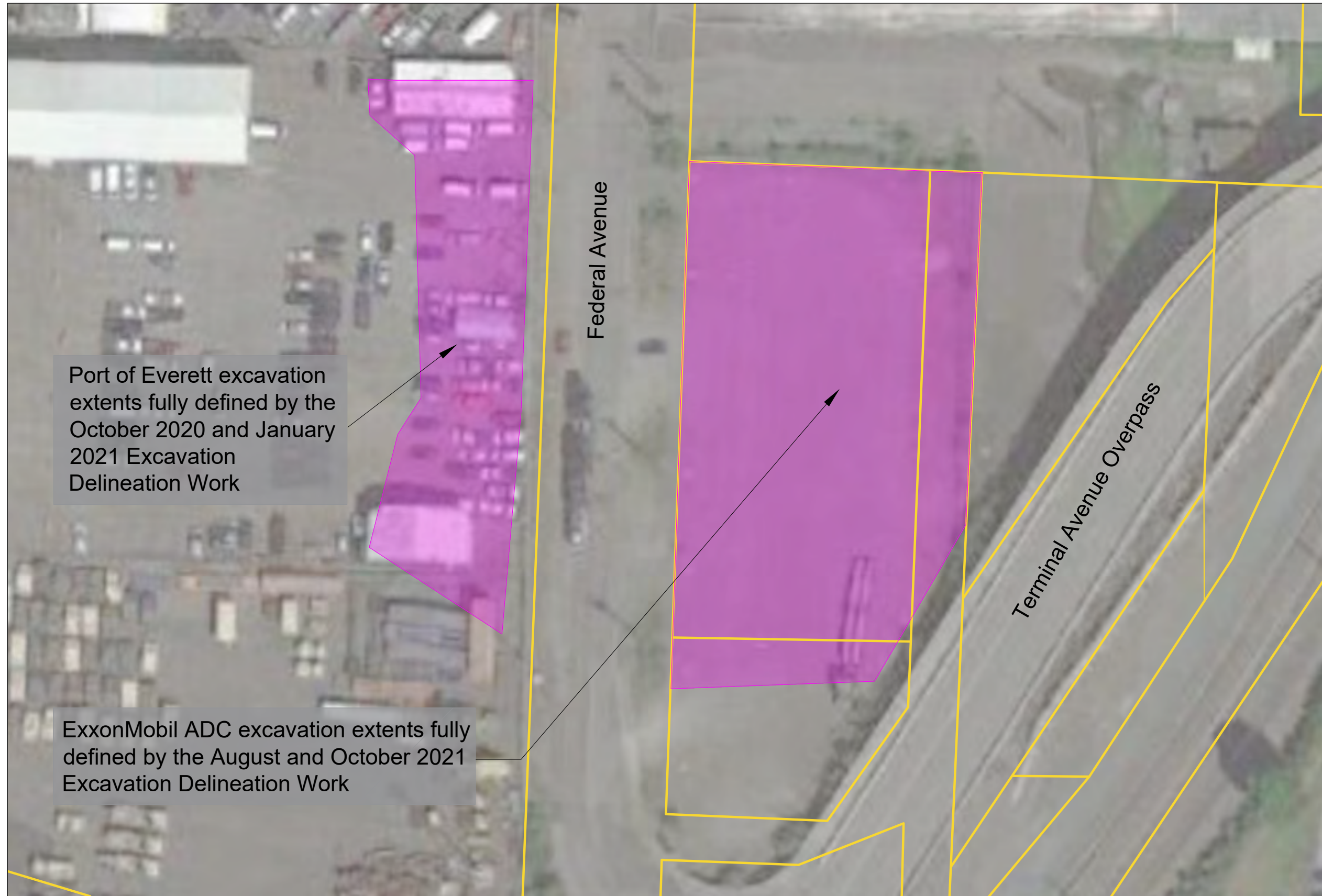
#### PROJECT

238000337

#### PLATE

23

LEC: 06/29/23

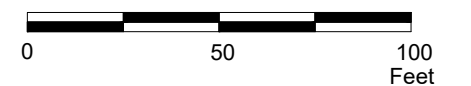


**EXPLANATION**

- Proposed Excavation Boundary
- Tax Parcel Boundary

SOURCE: Modified from maps provided by the Snohomish County Assessor

APPROXIMATE SCALE



FN 2380003370002



**PROPOSED EXCAVATION BOUNDARY**

ExxonMobil ADC  
 2717/2731 Federal Avenue  
 Everett, Washington

**PROJECT NO.**  
 238000337

**PLATE**  
 24

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 Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	
<b>Cardno - Port of Everett - Excavation Delineation Report - April 21, 2021:</b>								
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	<b>16,000E</b>	<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	<b>43,000</b>	<250	
S-10-EB3	EB3	10/12/20	10	--	<50	<b>15,000</b>	<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	<b>36,000</b>	<250	
S-10-EB4	EB4	10/12/20	10	--	<100	<b>5,500E</b>	<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	<b>7,400</b>	<b>13,000</b>	
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	<b>11,000E</b>	
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 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 2 of 7

Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	
<b>Cardno - Port of Everett - Excavation Delineation Report - April 21, 2021 (continued):</b>								
S-7.5-EB10	EB10	10/14/20	7.5	--	<10	<b>12,000</b>	<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	<b>Yes</b>	<100	<b>44,000</b>	2,700	
S-10-EB11	EB11	10/12/20	10	<b>Yes</b>	<100	<b>11,000</b>	1,300	
S-12.5-EB11	EB11	10/12/20	12.5	<b>Yes</b>	<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	<b>Yes</b>	<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	<b>11,000</b>	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	<b>5,000</b>	<b>6,900</b>	
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	<b>4,800</b>	1,100	
S-7.5-EB16	EB16	10/13/20	7.5	--	<100	<b>9,700</b>	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	<b>33,000</b>	<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 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 3 of 7

Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Cardno - Port of Everett - Excavation Delineation Report - April 21, 2021 (continued):</b>							
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	<b>8,400</b>	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	<b>8,100</b>	<b>12,000</b>
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	<b>6,300</b>
S-7.5-EB24	EB24	10/13/20	7.5	--	<10	<b>8,100</b>	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	<b>10,000</b>	<b>11,000</b>
S-10-EB27	EB27	10/14/20	10	--	<100	<b>9,100E</b>	<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  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	
<b>Cardno - Port of Everett - Excavation Delineation Report - April 21, 2021 (continued):</b>								
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	<b>39,000</b>	<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	<b>7,000E</b>	<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	<b>6,200</b>	<250	
S-10-EB32 <sup>b</sup>	EB32	01/25/21	10	--	--	<b>4,700</b>	<250	
S-12.5-EB32	EB32	01/25/21	12.5	--	<10	410	<250	
S-12.5-EB32 <sup>b</sup>	EB32	01/25/21	12.5	--	--	340	<250	
S-5-EB32A	EB32A	01/27/21	5	--	<10	56	<250	
S-7.5-EB32A	EB32A	01/27/21	7.5	--	<25	2,040	290	
S-10-EB32A	EB32A	01/27/21	10	--	<10	<b>6,100</b>	<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	<b>Yes</b>	<40	<b>28,000</b>	1,580	
S-12.5-EB33	EB33	01/25/21	12.5	<b>Yes</b>	<10	<b>21,000E</b>	<250	
S-15-EB33	EB33	01/25/21	15	<b>Yes</b>	<1,000	150	<250	
S-17.5-EB33	EB33	01/25/21	17.5	<b>Yes</b>	<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	
S-5-EB35	EB35	01/25/21	5	--	<10	<50	<250	
S-7.5-EB35	EB35	01/25/21	7.5	--	<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  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Cardno - Port of Everett - Excavation Delineation Report - April 21, 2021 (continued):</b>							
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	<b>5,600</b>	<250
S-5-EB39 <sup>b</sup>	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-12.5-EB40	EB40	01/26/21	12.5	--	<10	<50	<250
S-5-EB41	EB41	01/27/21	5	--	<15	<b>9,300</b>	<b>6,700</b>
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-12.5-EB41	EB41	01/27/21	12.5	--	<10	<50	<250
S-5-SB1	SB1	01/26/21	5	--	<10	<50	<250
S-7.5-SB1	SB1	01/26/21	7.5	--	<10	110	660
S-10-SB1	SB1	01/26/21	10	--	<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
<b>Site-Specific Residual Saturation Remediation Levels</b>					<b>2,470</b>	<b>4,800</b>	<b>5,810</b>

**TABLE 1  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - PORT OF EVERETT**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Cardno - Port of Everett - Excavation Delineation Report - April 21, 2021 (continued):</b>							
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
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**TABLE 1**  
**EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - PORT OF EVERETT**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
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**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.

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023:</b>							
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	<b>7,400</b>	650
S-10-A2	A2	08/11/21	10	--	76	260	44
S-12.5-A2	A2	08/11/21	12.5	<b>Yes</b>	570	<b>11,000</b>	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	<b>8,700</b>	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	<b>Yes</b>	520	<b>7,300</b>	1,600
S-5-A6	A6	08/12/21	5	<b>Yes</b>	220	1,700	410
S-7.5-A6	A6	08/12/21	7.5	<b>Yes</b>	450	<b>6,700</b>	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	<b>Yes</b>	160	580	260
S-12.5-A8	A8	08/16/21	12.5	<b>Yes</b>	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	<b>6,300</b>	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	B9	08/12/21	12.5	<b>Yes</b>	43	150	120
S-13-B9	B9	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 Residual Saturation Remediation Levels					2,470	4,800	5,810

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>							
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 Residual Saturation Remediation Levels					2,470	4,800	5,810

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
2717/2731 Federal Avenue  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>								
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	<b>19,000</b>	<b>5,900</b>	
S-10-D9	D9	08/09/21	10	<b>Yes</b>	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	<b>89,000</b>	<b>9,200</b>	
S-7.5-E5	E5	10/12/21	7.5	<b>Yes</b>	770	<b>36,000</b>	3,100	
S-10-E5	E5	10/12/21	10	<b>Yes</b>	740	<b>22,000</b>	1,700	
S-12.5-E5	E5	10/12/21	12.5	<b>Yes</b>	140	<b>27,000</b>	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	<b>15,000</b>	2,200	
S-5-E6	E6	08/09/21	5	--	710	<b>96,000</b>	<b>8,700</b>	
S-7.5-E6	E6	08/09/21	7.5	--	620	3,900	380	
S-10-E6	E6	08/09/21	10	<b>Yes</b>	570	<b>13,000</b>	1,300	
S-12.5-E6	E6	08/09/21	12.5	--	250	<b>5,100</b>	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	<b>Yes</b>	170	<b>14,000</b>	3,200	
S-10-E8	E8	08/09/21	10	<b>Yes</b>	1,300	<b>28,000</b>	<b>7,900</b>	
S-12.5-E8	E8	08/09/21	12.5	<b>Yes</b>	280	<b>6,000</b>	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	<b>Yes</b>	23	72	25	
Site-Specific Residual Saturation Remediation Levels						2,470	4,800	5,810

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>								
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	<b>7,200</b>	2,600	
S-2.5-F3	F3	08/10/21	2.5	--	300	<b>6,500</b>	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	<b>11,000</b>	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	<b>Yes</b>	1,300	<b>76,000</b>	<b>6,200</b>	
S-7.5-F5	F5	08/10/21	7.5	--	1,400	<b>20,000</b>	2,000	
S-10-F5	F5	08/10/21	10	--	870	<b>21,000</b>	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	<b>9,600</b>	2,400	
S-7.5-F6	F6	10/13/21	7.5	--	520	<b>22,000</b>	3,100	
S-10-F6	F6	10/13/21	10	<b>Yes</b>	560	<b>62,000</b>	<b>6,200</b>	
S-12.5-F6	F6	10/13/21	12.5	<b>Yes</b>	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	<b>32,000</b>	5,800	
S-7.5-F7	F7	08/10/21	7.5	--	340	<b>65,000</b>	<b>15,000</b>	
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 <sup>c</sup>	F9	08/10/21	2.5	--	27	120	<5.6	
S-5-F9	F9	08/10/21	5	--	510	<b>12,000</b>	<b>7,000</b>	
S-7.5-F9	F9	08/10/21	7.5	--	200	630	190	
S-10-F9	F9	08/10/21	10	--	260	<b>16,000</b>	5,400	
S-10-F9 DUP	F9	08/10/21	10	--	470	<b>13,000</b>	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	<b>Yes</b>	610	<b>7,800</b>	3,700	
S-10-G1	G1	10/13/21	10	--	<0.28	<11	<11	
Site-Specific Residual Saturation Remediation Levels						2,470	4,800	5,810

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TP Hd (mg/kg)	TPHmo (mg/kg)
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>							
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	<b>5,600</b>	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	<b>Yes</b>	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
S-7.5-G6	G6	08/10/21	7.5	--	170	1,800	610
S-10-G6	G6	08/10/21	10	<b>Yes</b>	240	670	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	<b>6,800</b>	2,500
S-5-G7	G7	10/13/21	5	--	95	<b>6,500</b>	2,000
S-7.5-G7	G7	10/13/21	7.5	--	240	<b>8,200</b>	1,800
S-10-G7	G7	10/13/21	10	<b>Yes</b>	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	<b>Yes</b>	1,400	<b>5,000</b>	960
S-10-G8	G8	08/10/21	10	<b>Yes</b>	1,400	2,700	550
S-12.5-G8	G8	08/10/21	12.5	--	2,400	<b>12,000</b>	2,900
S-15-G8A	G8A	10/12/21	15	<b>Yes</b>	2,200	<b>12,000</b>	3,000
S-17.5-G8A	G8A	10/12/21	17.5	<b>Yes</b>	<b>2,900</b>	<b>29,000</b>	<b>7,100</b>
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	<b>Yes</b>	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	<b>6,200</b>	920
Site-Specific Residual Saturation Remediation Levels					2,470	4,800	5,810



**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>							
S-10-H2	H2	10/13/21	10	--	<0.57	<79	170
S-2.5-H3	H3	08/11/21	2.5	--	230	2,300	1,000
S-6-H3	H3	08/11/21	6	--	230	93	26
S-7.5-H3	H3	08/11/21	7.5	--	1.1	13	11
S-10-H3	H3	08/11/21	10	--	76	370	100
S-12.5-H3	H3	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	<b>4,900</b>	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	<b>8,300</b>	2,200
S-10-H6	H6	10/13/21	10	--	810	<b>5,400</b>	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	<b>6,500</b>	3,100
S-5-H7	H7	08/10/21	5	--	370	<b>15,000</b>	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	--	38	230	110
S-2.5-H9	H9	08/11/21	2.5	--	4.2	1,000	70
S-4.5-H9	H9	08/11/21	4.5	--	1,600	<b>36,000</b>	4,300
S-10-H9	H9	08/11/21	10	--	2,400	<b>28,000</b>	4,700
S-12.5-H9	H9	08/11/21	12.5	--	53	2,000	1,200
S-14.5-H9	H9	08/11/21	14.5	--	<1.8	200	160
S-2.5-I1	I1	10/13/21	2.5	--	<0.20	<5.5	20
S-5-I1	I1	10/13/21	5	--	95	<b>5,700</b>	440
S-7.5-I1	I1	10/13/21	7.5	--	13	360	<22
S-10-I1	I1	10/13/21	10	--	<0.74	<14	36
S-2.5-I2	I2	08/11/21	2.5	--	170	<b>6,800</b>	2,600
S-5-I2	I2	08/11/21	5	--	310	<b>7,600</b>	1,800
S-7.5-I2	I2	08/11/21	7.5	--	4.3	220	170
S-10-I2	I2	08/11/21	10	--	53	1,300	560
S-12.5-I2	I2	08/11/21	12.5	--	13	150	83
S-2.5-I3	I3	10/13/21	2.5	--	3.1	660	670
S-5-I3	I3	10/13/21	5	--	220	<b>5,000</b>	2,000
Site-Specific Residual Saturation Remediation Levels					2,470	4,800	5,810

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>								
S-7.5-I3	I3	10/13/21	7.5	--	0.30	110	63	
S-10-I3	I3	10/13/21	10	--	<0.20	<5.8	<5.8	
S-2.5-I4	I4	08/11/21	2.5	--	4.9	1,300	450	
S-5-I4	I4	08/11/21	5	--	<0.22	14	<5.9	
S-7.5-I4	I4	08/11/21	7.5	--	<0.19	<5.6	6.9	
S-10-I4	I4	08/11/21	10	--	<0.091	36	12	
S-12.5-I4	I4	08/11/21	12.5	--	<1.2	130	140	
S-2.5-I5	I5	10/13/21	2.5	--	330	<b>7,400</b>	1,600	
S-5-I5	I5	10/13/21	5	--	98	1,900	370	
S-7.5-I5	I5	10/13/21	7.5	--	980	4,500	970	
S-10-I5	I5	10/13/21	10	--	870	<b>7,800</b>	<120	
S-12.5-I5	I5	10/13/21	12.5	--	3.1	23	45	
S-12.5-I5-DUP	I5	10/13/21	12.5	--	1.3	34	55	
S-2.5-I6	I6	08/10/21	2.5	--	140	780	450	
S-5-I6	I6	08/10/21	5	--	380	3,500	800	
S-7.5-I6	I6	08/10/21	7.5	--	470	1,100	450	
S-10-I6	I6	08/10/21	10	--	300	1,000	320	
S-12.5-I6	I6	08/10/21	12.5	--	69	<6.5	14	
S-14.5-I6	I6	08/10/21	14.5	--	4.5	<24	50	
S-3.5-I7	I7	10/13/21	3.5	--	380	4,400	1,400	
S-5-I7	I7	10/13/21	5	--	5.0	53	23	
S-10-I7	I7	10/13/21	10	--	280	730	160	
S-12.5-I7	I7	10/13/21	12.5	<b>Yes</b>	99	130	68	
S-15-I7	I7	10/13/21	15	--	<1.3	<38	100	
S-2.5-I8	I8	08/10/21	2.5	--	710	<b>6,900</b>	1,700	
S-5-I8	I8	08/10/21	5	--	2,100	<b>8,300</b>	1,500	
S-7.5-I8	I8	08/10/21	7.5	--	57	1,100	280	
S-10-I8	I8	08/10/21	10	<b>Yes</b>	1,400	4,300	1,800	
S-12.5-I8	I8	08/10/21	12.5	--	1,000	<b>10,000</b>	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	<b>6,200</b>	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	<b>7,600</b>	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	<b>7,900</b>	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	<b>7,800</b>	2,800	
S-5-J5	J5	08/10/21	5	--	2,100	<b>55,000</b>	<b>8,200</b>	
S-5-J5 DUP	J5	08/10/21	5	--	1,600	<b>59,000</b>	<b>8,200</b>	
S-7.5-J5	J5	08/10/21	7.5	--	1,200	<b>7,800</b>	1,400	
Site-Specific Residual Saturation Remediation Levels						2,470	4,800	5,810

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TP Hd (mg/kg)	TPHmo (mg/kg)
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>							
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	<b>6,700</b>	<b>5,900</b>
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	<b>Yes</b>	2,200	<b>10,000</b>	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	<b>Yes</b>	<b>3,100</b>	4,000	410
S-7.5-J9	J9	08/11/21	7.5	<b>Yes</b>	<b>3,300</b>	<b>11,000</b>	730
S-10-J9	J9	08/11/21	10	<b>Yes</b>	590	<b>13,000</b>	2,700
S-12.5-J9	J9	08/11/21	12.5	--	1,700	<b>18,000</b>	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	<b>15,000</b>	3,600
S-5-K1	K1	10/13/21	5	--	620	<b>6,200</b>	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	<b>5,100</b>	400
S-5-K2	K2	08/17/21	5	--	1,100	<b>14,000</b>	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	<b>5,800</b>	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	<b>14,000</b>	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	--	<b>3,200</b>	<b>19,000</b>	2,300
S-7.5-K8	K8	08/18/21	7.5	<b>Yes</b>	<b>3,400</b>	<b>59,000</b>	4,500
S-10-K8	K8	08/18/21	10	--	1,500	<b>4,900</b>	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	<b>5,400</b>	1,400
S-5-L2	L2	10/13/21	5	--	920	<b>8,200</b>	<b>8,200</b>
Site-Specific Residual Saturation Remediation Levels					2,470	4,800	5,810

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>							
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	<b>8,600</b>	2,500
S-5-L3	L3	08/17/21	5	--	<0.45	<b>7,000</b>	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	<b>8,700</b>	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	<b>45,000</b>	310
S-7.5-L7	L7	08/18/21	7.5	--	290	<b>11,000</b>	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	<b>22,000b</b>	1,300
S-7.5-L8	L8	10/14/21	7.5	--	1,900	<b>21,000b</b>	890
S-10-L8	L8	10/14/21	10	<b>Yes</b>	320	<b>13,000b</b>	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	M3	10/14/21	2.5	--	<b>2,700</b>	<b>16,000</b>	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	<b>13,000</b>	2,200
S-5-M4	M4	08/17/21	5	--	1,100	<b>7,900</b>	1,400
S-7.5-M4	M4	08/17/21	7.5	--	<0.55	<b>5,500</b>	<b>7,300</b>
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
<b>Site-Specific Residual Saturation Remediation Levels</b>					<b>2,470</b>	<b>4,800</b>	<b>5,810</b>

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>							
S-2.5-M6	M6	08/18/21	2.5	--	1,500	<b>10,000</b>	1,100
S-5-M6	M6	08/18/21	5	--	1,200	4,400	620
S-7.5-M6	M6	08/18/21	7.5	--	67	60	240
S-10-M6	M6	08/18/21	10	--	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	--	<b>3,400</b>	<b>27,000</b>	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	M9	10/14/21	2.5	--	0.77	300b	460
S-5-M9	M9	10/14/21	5	--	4,600	<b>5,700b</b>	180
S-7.5-M9	M9	10/14/21	7.5	--	<b>3,500</b>	<b>21,000b</b>	1,100
S-10-M9	M9	10/14/21	10	--	<b>2,900</b>	<b>35,000b</b>	1,400
S-12.5-M9	M9	10/14/21	12.5	--	530	<b>11,000b</b>	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	<b>7,700</b>	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	<b>110,000</b>	<b>6,300</b>
S-5-N5	N5	08/17/21	5	--	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	<b>6,100</b>	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	--	<b>9,500</b>	<b>24,000</b>	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	O1	10/14/21	5	--	<0.25	<30b	77
S-7.5-O1	O1	10/14/21	7.5	--	3.7	14b	13
<b>Site-Specific Residual Saturation Remediation Levels</b>					<b>2,470</b>	<b>4,800</b>	<b>5,810</b>

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
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Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>							
S-2.5-O2	O2	08/17/21	2.5	--	0.25	45	47
S-5-O2	O2	08/17/21	5	--	<0.18	<12	67
S-7.5-O2	O2	08/17/21	7.5	--	5.4	240	1,400
S-10-O2	O2	08/17/21	10	--	1.3	<19	<19
S-12.5-O2	O2	08/17/21	12.5	--	<0.25H	<6.3	14
S-2.5-O3	O3	10/14/21	2.5	--	3.6	99	110
S-5-O3	O3	10/14/21	5	--	1,500	3,200	130
S-7.5-O3	O3	10/14/21	7.5	--	1.1	6.1	13
S-10-O4	O4	08/17/21	10	--	66H	230	75
S-12.5-O4	O4	08/17/21	12.5	--	1.2	<20	62
S-2.5-O6	O6	08/17/21	2.5	--	170	1,000	1,700
S-5-O6	O6	08/17/21	5	--	<b>2,800</b>	2,000	320
S-7.5-O6	O6	08/17/21	7.5	--	200	220	<5.7
S-7.5-O6 DUP	O6	08/17/21	7.5	--	55	1,100	26
S-10-O6	O6	08/17/21	10	--	<b>2,900</b>	600	27
S-12.5-O6	O6	08/17/21	12.5	--	210	260	210
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	<b>20,000b</b>	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	--	<b>4,100</b>	<b>15,000</b>	290
S-5-O8	O8	08/16/21	5	--	820	<b>45,000</b>	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	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	<b>4,900b</b>	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	<b>6,100</b>	2,400
S-16-P3	P3	08/16/21	16	--	5.3	<17	29
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	--	<b>2,500</b>	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
<b>Site-Specific Residual Saturation Remediation Levels</b>					<b>2,470</b>	<b>4,800</b>	<b>5,810</b>

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

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

Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>							
S-12.5-P5	P5	08/16/21	12.5	--	1.0	10	130
S-5-P6	P6	10/14/21	5	--	2,200	1,400b	990
S-10-P6	P6	10/14/21	10	--	2.0	<6.8b	12
S-12.5-P6	P6	10/14/21	12.5	--	6.0	<59b	100
S-2.5-P7	P7	08/16/21	2.5	--	110	2,800	1,500
S-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	10	--	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	5	--	2.5	<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	<5.9	76
S-7.5-Q2	Q2	08/16/21	7.5	--	0.58	<6.1	11
S-10-Q2	Q2	08/16/21	10	--	<0.20	<6.2	6.8
S-12.5-Q2	Q2	08/16/21	12.5	--	<0.21	<6.1	7.5
S-2.5-Q3	Q3	10/14/21	2.5	--	9.3	<6.6	9.8
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	7.5	--	0.34	22	100
S-10-Q4	Q4	08/16/21	10	--	0.27	<6.0	<6.0
S-12.5-Q4	Q4	08/16/21	12.5	--	<0.47	28	56
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-5-R1	R1	08/12/21	5	--	0.51	<6.0	<6.0
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	<25	300
S-2.5-R3	R3	08/12/21	2.5	--	0.55	<6.5	<6.5
S-5-R3	R3	08/12/21	5	--	0.74	32	480
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
Site-Specific Residual Saturation Remediation Levels					2,470	4,800	5,810

**TABLE 2  
EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
Page 13 of 14

Sample Name	Location	Date	Sample Depth (feet bgs)	LNAPL Observed	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)
<b>Stantec - Site Characterization/Focused Feasibility Study Addendum - May 25, 2023 (continued):</b>							
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	--	<0.11	16	13
S-10-T3	T3	08/16/21	10	--	<0.23	220	1,400
S-12.5-T3	T3	08/16/21	12.5	--	<0.73	<20	49

Site-Specific Residual Saturation Remediation Levels	2,470	4,800	5,810
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**TABLE 2**  
**EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**

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

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

# APPENDIX A

## Correspondence



# 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*

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#### *Technical Review Comments for*

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

Exxon/ADC et. al. prepared the above-referenced SC/FFS, which summarizes all previous characterization activities, interim actions, & 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:

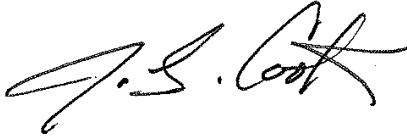
- Soil/Source Area Remediation Alternative no.1 - LNAPL Excavation & Natural Source Zone Attenuation.
- Groundwater Remediation Alternative no.1 - Monitored Natural Attenuation with Conditional Points of Compliance and associated monitoring.

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 [jason.cook@ECY.wa.gov](mailto:jason.cook@ECY.wa.gov) if you have any questions or are in need of clarification.

Sincerely:

A handwritten signature in black ink, appearing to read "J.G. Cook". The signature is fluid and cursive, with the first name "J.G." and the last name "Cook" clearly distinguishable.

J.G. Cook, LG, RG  
Headquarters – Toxics Cleanup Program  
Washington Department of Ecology

# APPENDIX B

## Field Protocol



# 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 Hydropunch™ sampling technology or installing a well in the borehole. In the case of using Hydropunch™ 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**





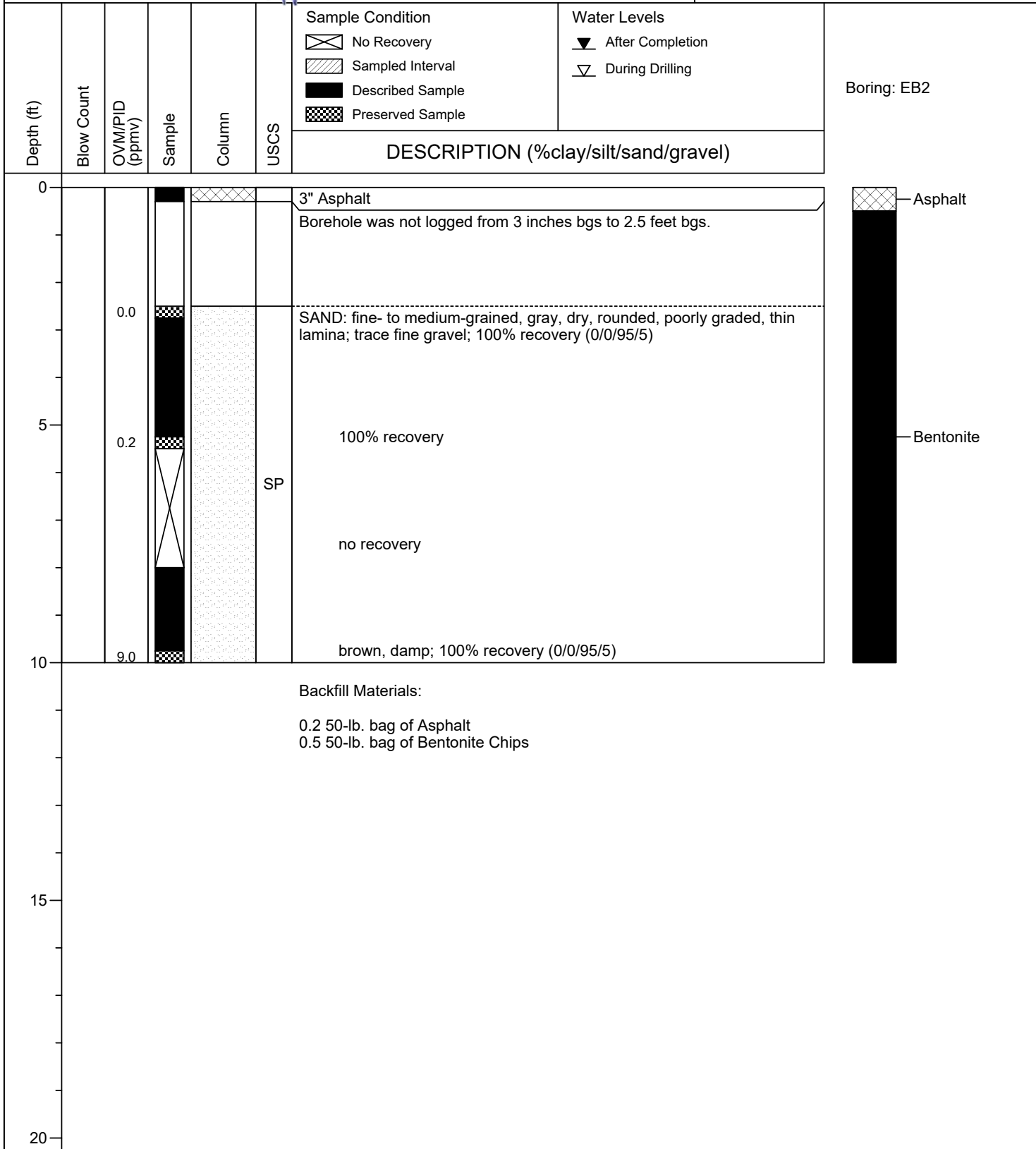


# BORING LOG EB2

(Page 1 of 1)

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: : 10' bgs  
 First GW Depth: : N/A

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Brett McLees  
 Reviewed By: : Keri Chappell, L.G. 2719  
 Signature: : *Keri Chappell*





# BORING LOG EB3

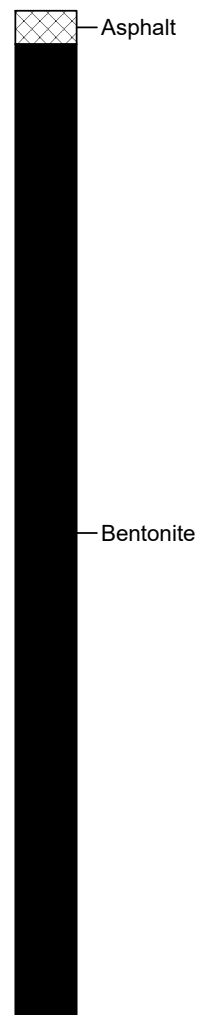
(Page 1 of 1)

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  
 First GW Depth: : N/A

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.
5					SP			SAND: fine- to medium-grained, gray brown, dry; fine to coarse gravel, subangular; 40% recovery (0/10/50/40)
5					ML			SILT: dark brown to olive gray, damp, fine gravel, subangular; 50% recovery (0/90/0/10)
10					SW			SAND: fine- to coarse-grained, dark brown, moist; trace silt; 60% recovery (0/5/95/0)
10								100% recovery
10								100% recovery
15								100% recovery (0/5/90/5)
20								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.

Boring: EB3







# BORING LOG EB5

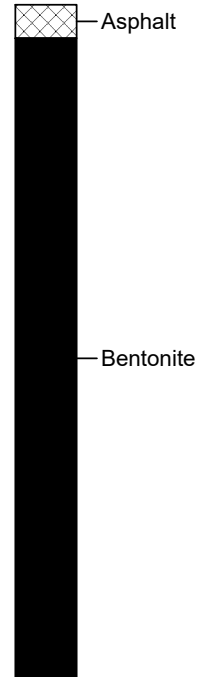
(Page 1 of 1)

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: : 10' bgs  
 First GW Depth: : N/A

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.
5					GP			GRAVEL with Sand: fine to coarse gravel, subrounded to subangular; fine- to coarse-grained sand, light gray, dry, well graded; trace silt; 80% recovery (0/5/40/55)  well graded sand, occasional silty clasts; 80% recovery (0/5/30/65)
10					SP			SAND with Gravel: medium- to coarse-grained, gray, dry, poorly graded; fine to coarse gravel, subangular to subrounded, well graded; trace silt; 80% recovery (0/5/70/25)  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.
20								

Boring: EB5





# BORING LOG EB6

(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: : 10' bgs  
 First GW Depth: : N/A

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
Boring: EB6								
0								3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.
5					GW			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)
10					SP			SAND with Gravel: medium- to coarse-grained, gray, damp, poorly graded; fine to coarse gravel, subangular to subrounded; trace silt; 80% recovery (0/5/75/20)  100% recovery (0/5/75/20)
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.
20								

02-27-2023 \\US0326-PPFSS01\shared\_projects\238000\337\working\_files\BORING\_LOGS\2020 Excavation Delineation\031447\_EB6.bor

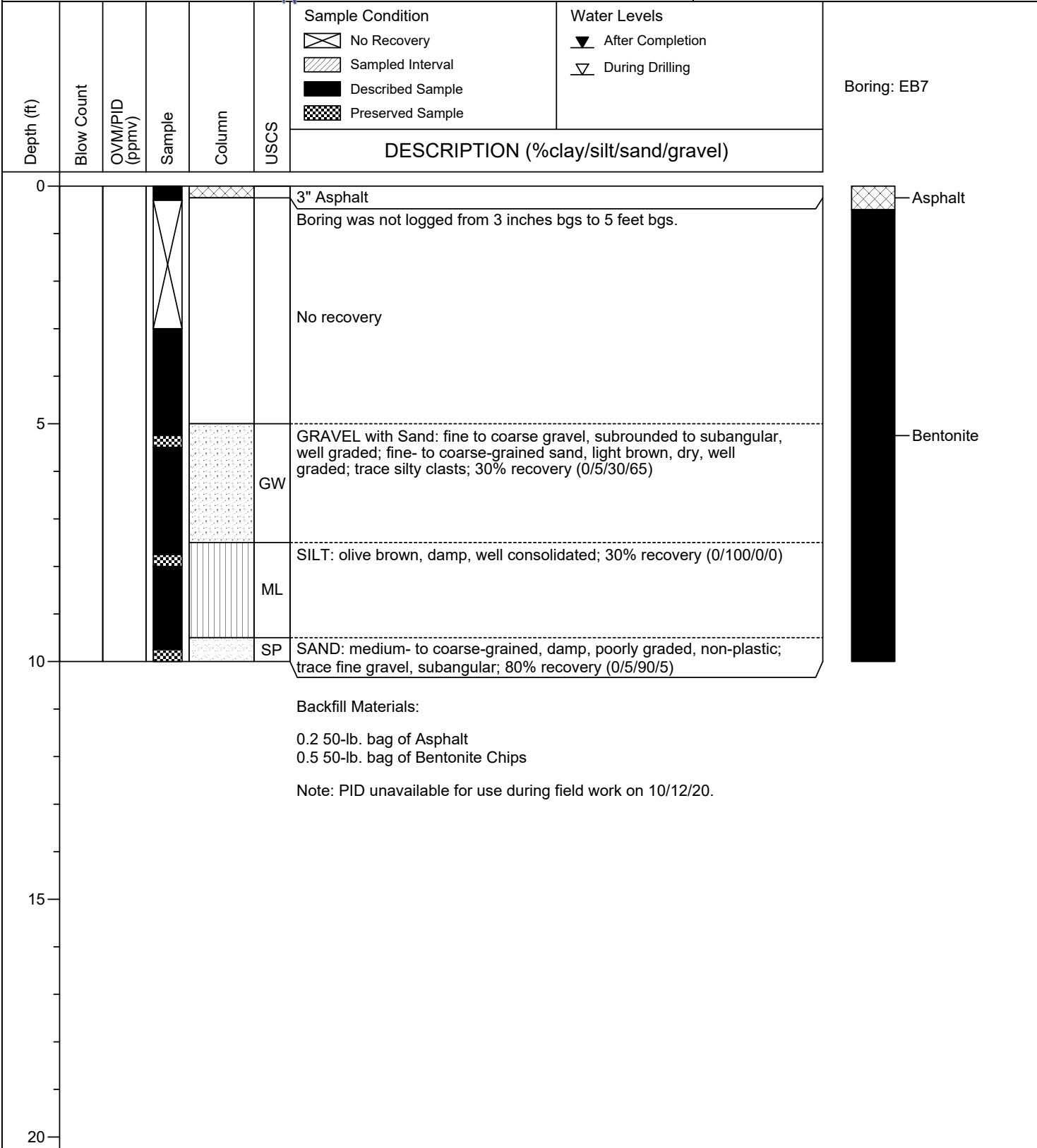


# BORING LOG EB7

(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: : 10' bgs  
 First GW Depth: : N/A

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*







# BORING LOG EB8

(Page 1 of 1)

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

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Brett McLees  
 Reviewed By: : Keri Chappell, L.G. 2719  
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB8
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.		Asphalt
0.1						SAND: coarse-grained, light gray, dry, poorly graded, medium bed; trace fine gravel; 100% recovery (0/0/95/5)		
5						100% recovery		
10					SP	light brown, no gravel; 100% recovery (0/0/100/0)		Bentonite
13.7	12.9					moist; 100% recovery		
15	10.4					100% recovery (0/0/100/0)		
	13.7					100% recovery		
	0.1					100% recovery		
	6.5					100% recovery		
Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips								
20								







# BORING LOG EB11

(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  
 First GW Depth: : 7.5' bgs

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB11
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		Asphalt
						Borehole was not logged from 3 inches bgs to 2.5 feet bgs.		
					SW	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)		
					ML	SILT: moist, reduced organic material; 100% recovery (0/100/0/0)		
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		
15						no NAPL; 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 10/12/20.











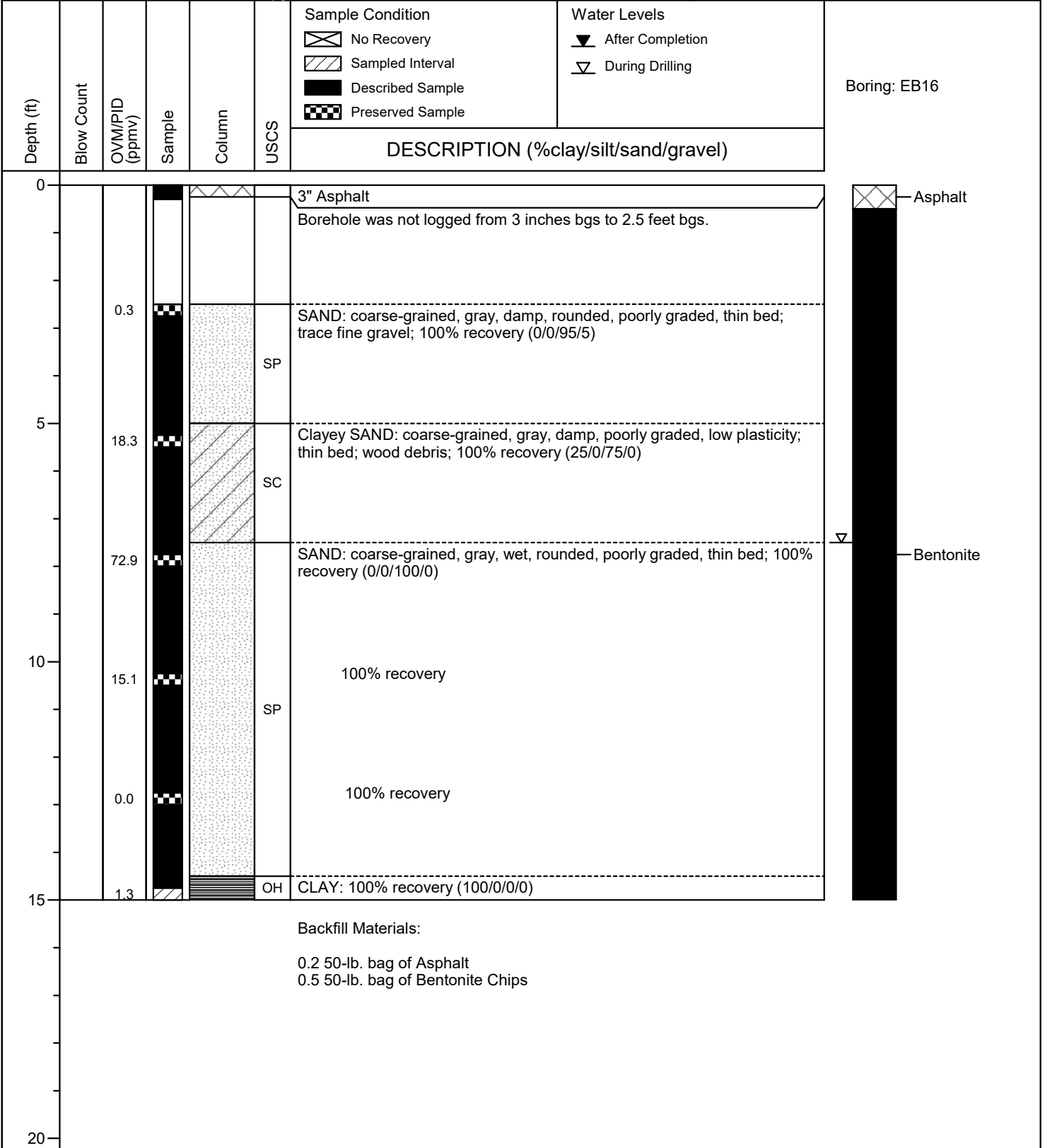


# BORING LOG EB16

(Page 1 of 1)

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: : 7.5' bgs

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Brett McLees  
 Reviewed By: : Keri Chappell, L.G. 2719  
 Signature: : *Keri Chappell*





# BORING LOG EB17

(Page 1 of 1)

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

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Brett McLees  
 Reviewed By: : Keri Chappell, L.G. 2719  
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB17
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						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)		
0.4						100% recovery		
35.6					SP	moist, medium bed; 100% recovery		Bentonite
11.6						100% recovery		
0.2						wet; 100% recovery		
0.5						100% recovery		
Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips								
20								





# BORING LOG EB18

(Page 1 of 1)

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

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Brett McLees  
 Reviewed By: : Keri Chappell, L.G 2719  
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB18
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.		 Asphalt
0.0					SW	SAND: coarse-grained, medium brown, dry, moderately graded, thin lamina; fine gravel; 100% recovery (0/0/85/15)		 Bentonite
2.2						dark brown; refusal at 4.5' bgs; 100% recovery		
5						Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips		
10								
15								
20								



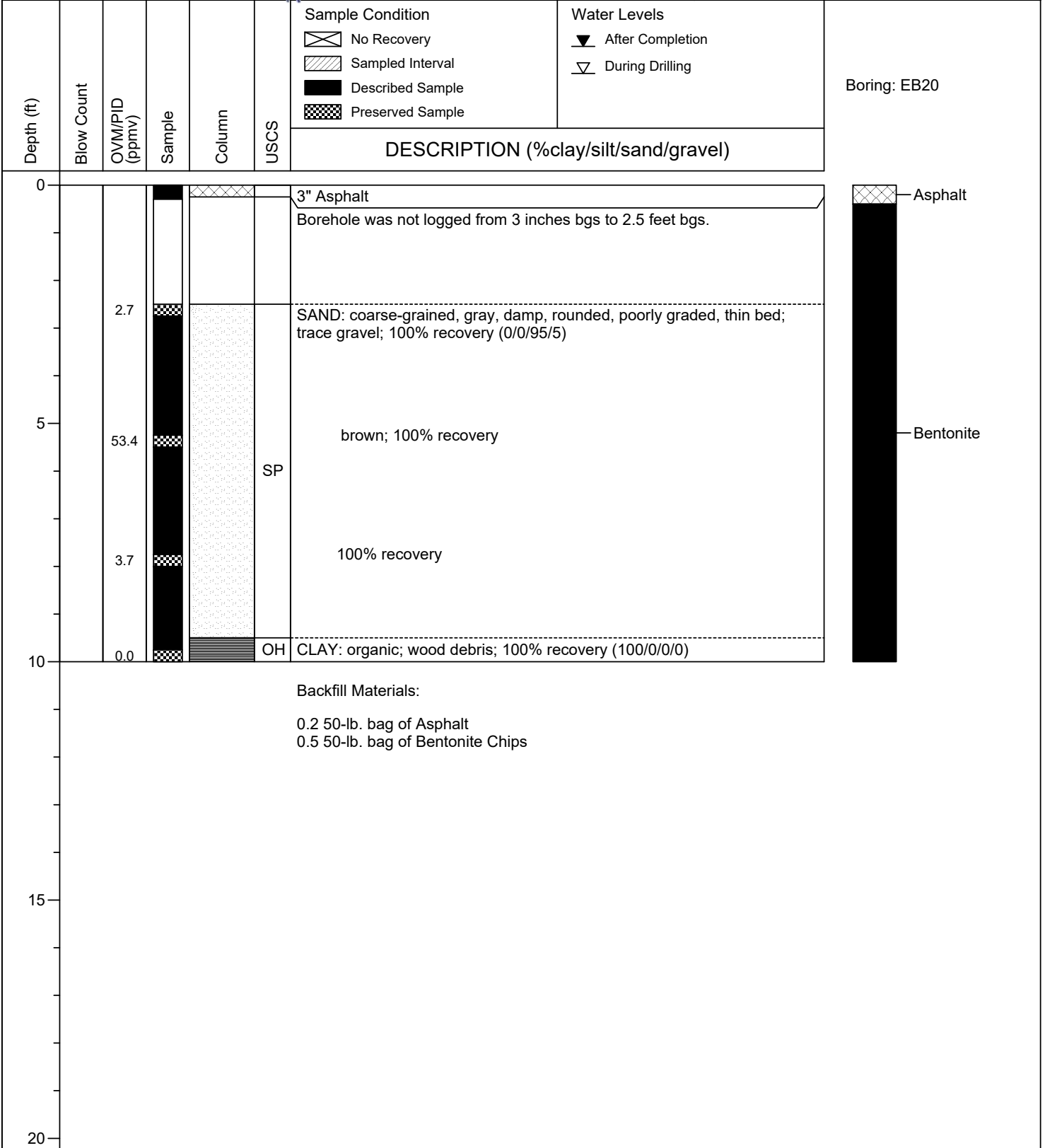


# BORING LOG EB20

(Page 1 of 1)

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: : 10' bgs  
 First GW Depth: : N/A

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Brett McLees  
 Reviewed By: : Keri Chappell, L.G. 2719  
 Signature: : *Keri Chappell*









# BORING LOG EB22

(Page 1 of 1)

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: : 5' bgs  
 First GW Depth: : N/A

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Brett McLees  
 Reviewed By: : Keri Chappell, L.G. 2719  
 Signature: : *Keri Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB22
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt Borehole was not logged from 3 inches bgs to 2.5 feet bgs.		 Asphalt
0.0					SP	SAND: coarse-grained, brown, damp, rounded, poorly graded, lamina; 100% recovery (0/0/100/0)		 Bentonite
5						Refusal at 5' bgs; 100% recovery		
Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips								
10								
15								
20								





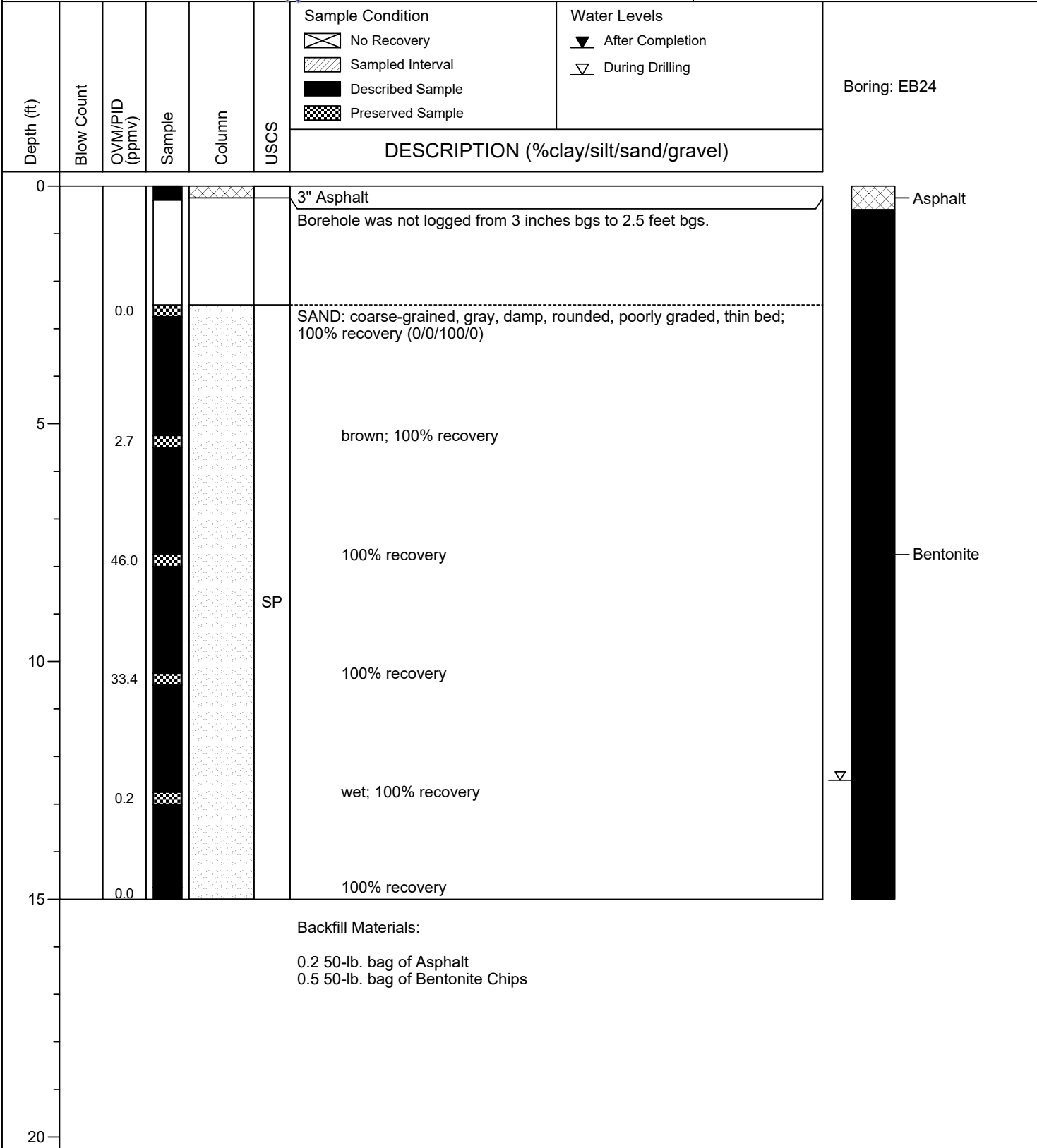


# BORING LOG EB24

(Page 1 of 1)

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

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Brett McLees  
 Reviewed By: : Kerj Chappell, L.G. 2719  
 Signature: : *Kerj Chappell*



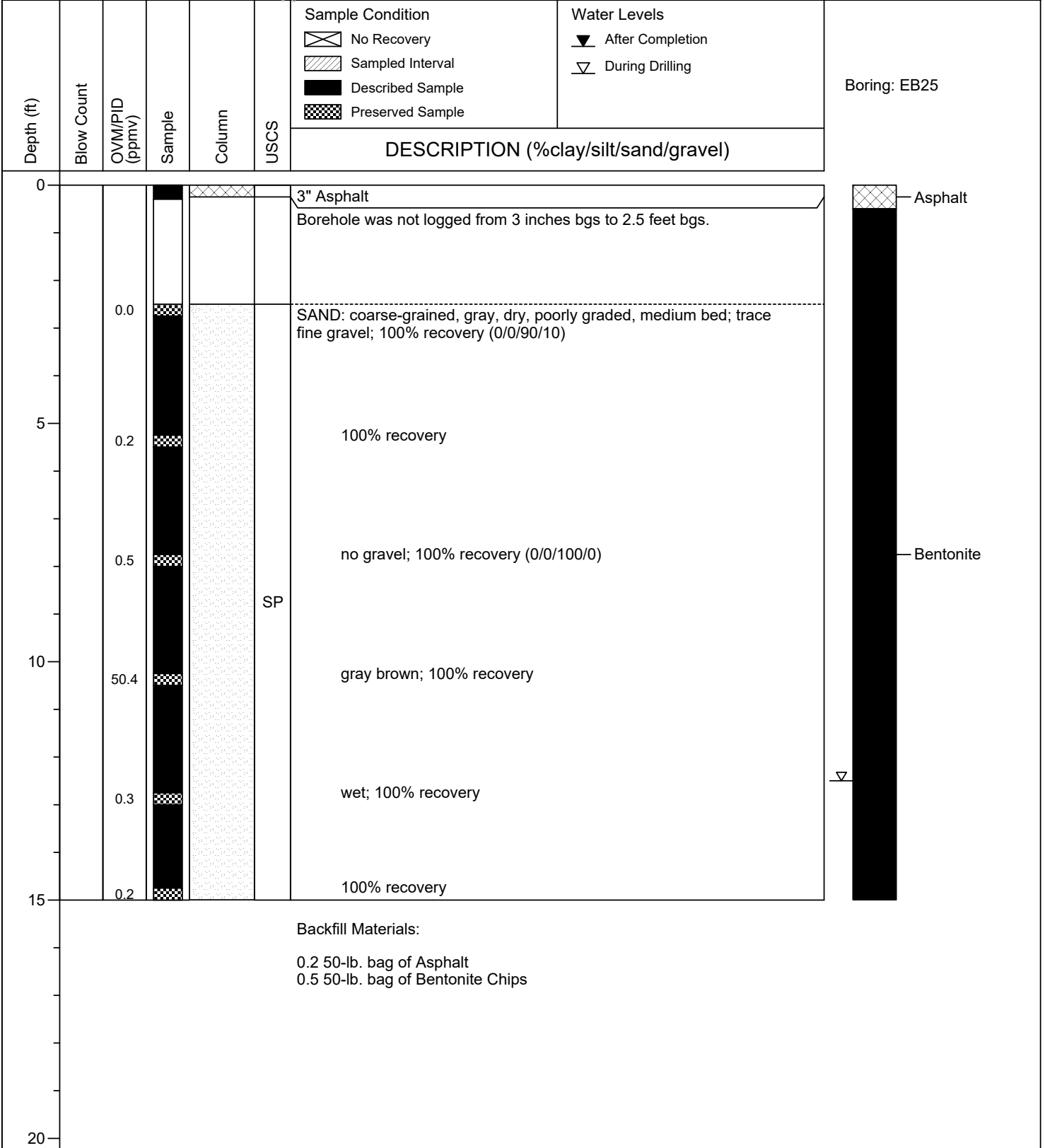


# BORING LOG EB25

(Page 1 of 1)

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

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Brett McLees  
 Reviewed By: : Keri Chappell, L.G. 2719  
 Signature: : *Keri Chappell*











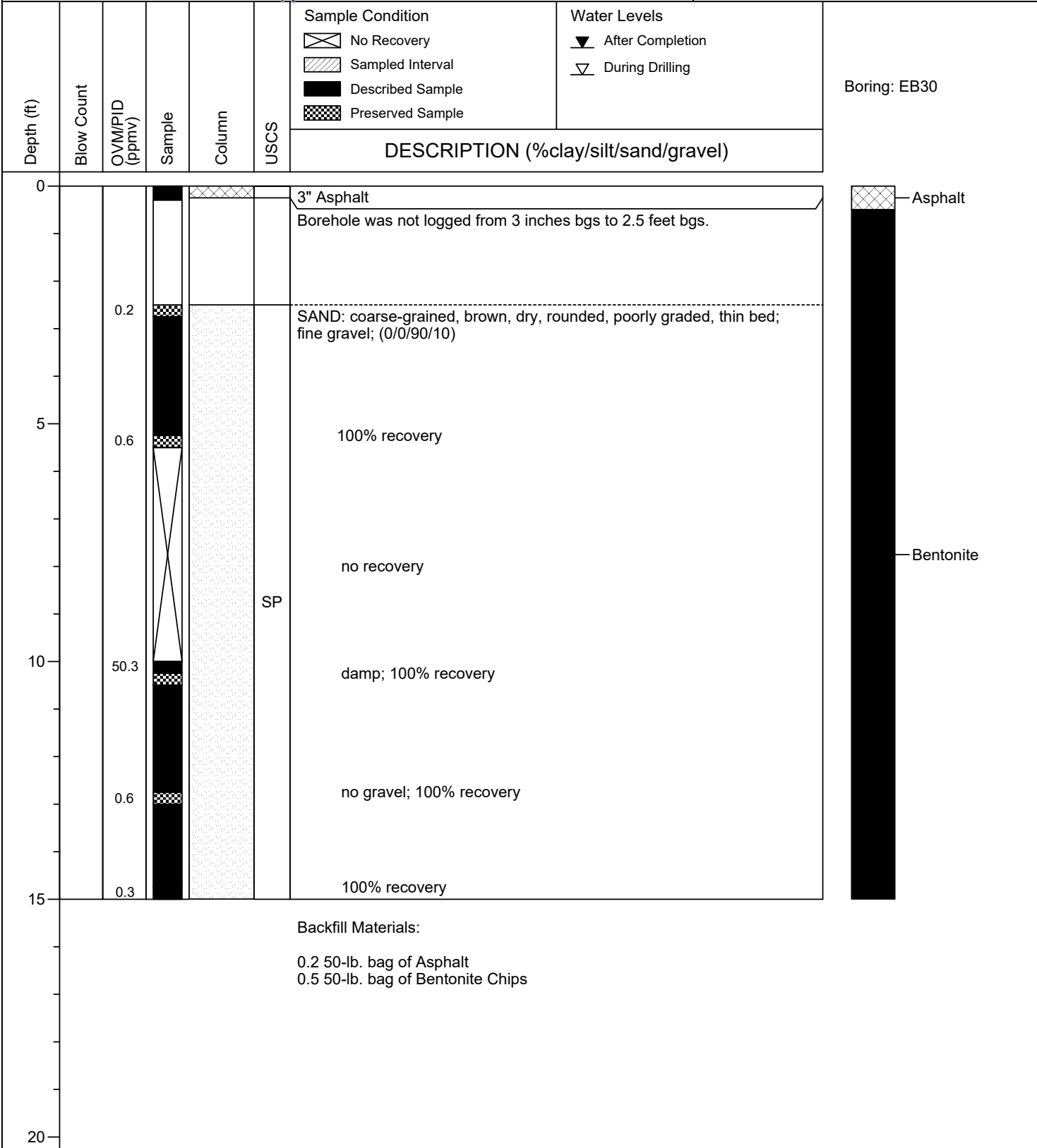


# BORING LOG EB30

(Page 1 of 1)

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

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Brett McLees  
 Reviewed By: : Keri Chappell, L.G. 2719  
 Signature: : *Keri Chappell*



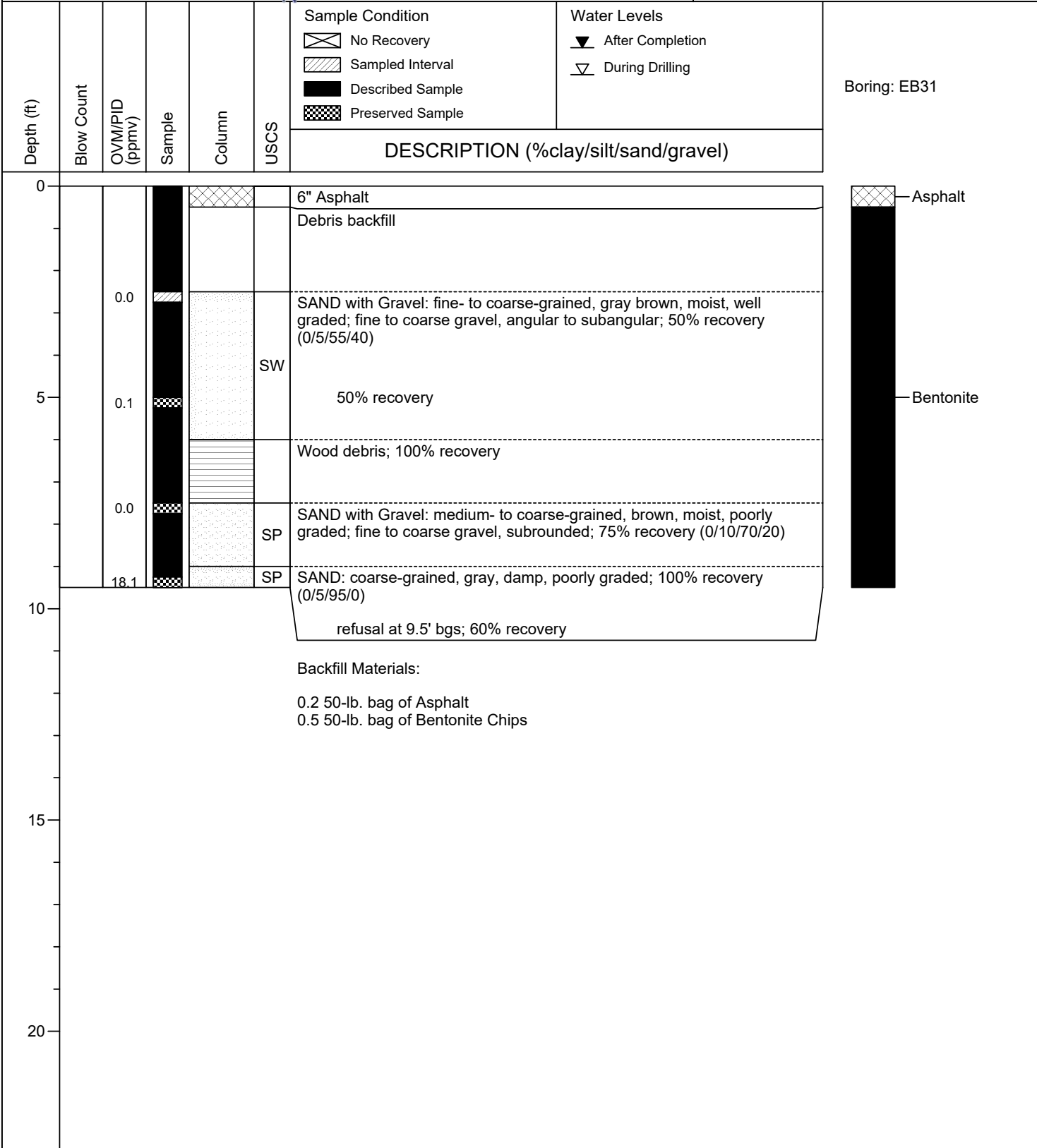


# BORING LOG EB31

(Page 1 of 1)

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: : 9.5' bgs  
 First GW Depth: : N/A

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*





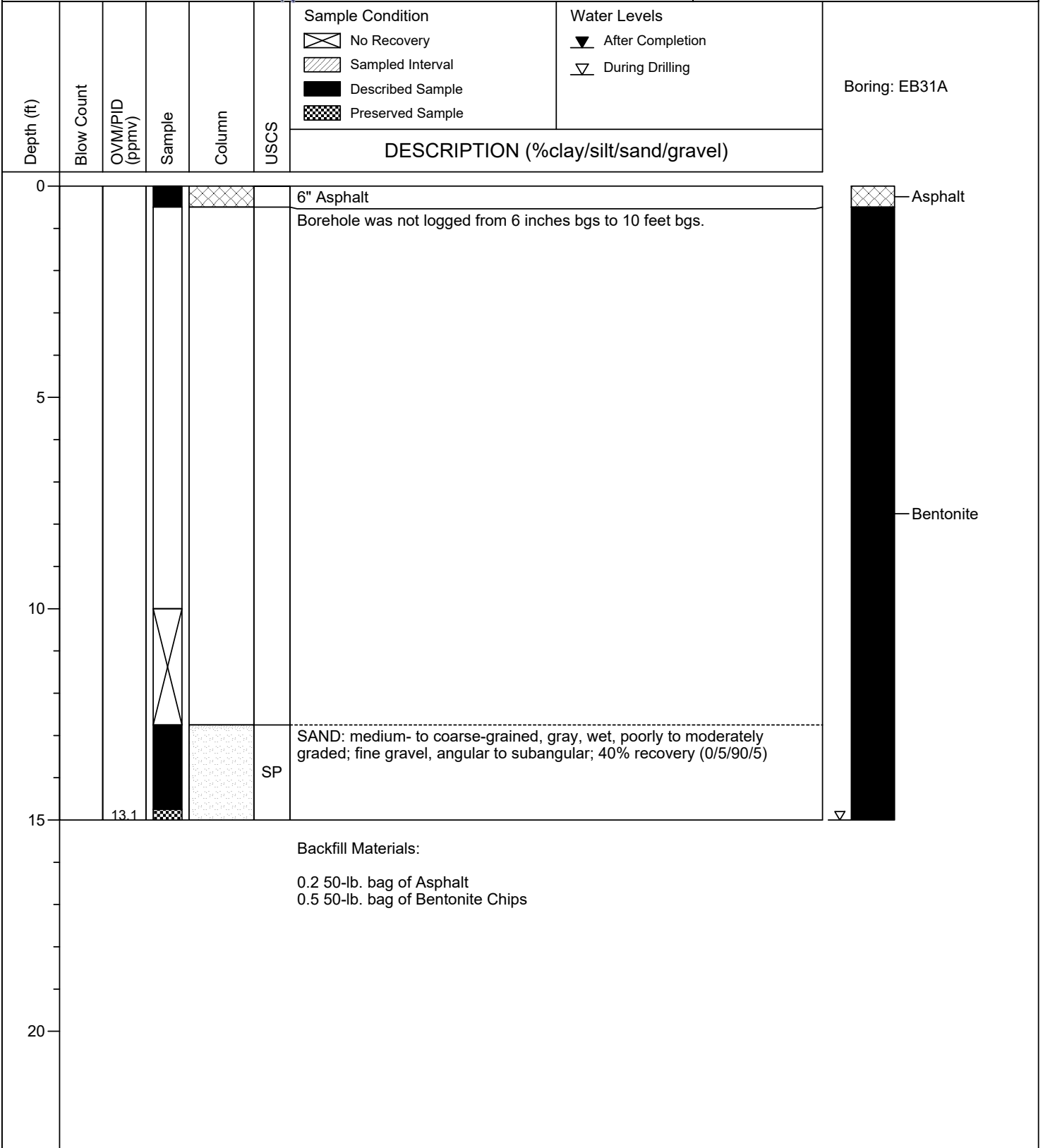


# BORING LOG EB31A

(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: : 15' bgs  
 First GW Depth: : 15' bgs

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*



Backfill Materials:  
 0.2 50-lb. bag of Asphalt  
 0.5 50-lb. bag of Bentonite Chips

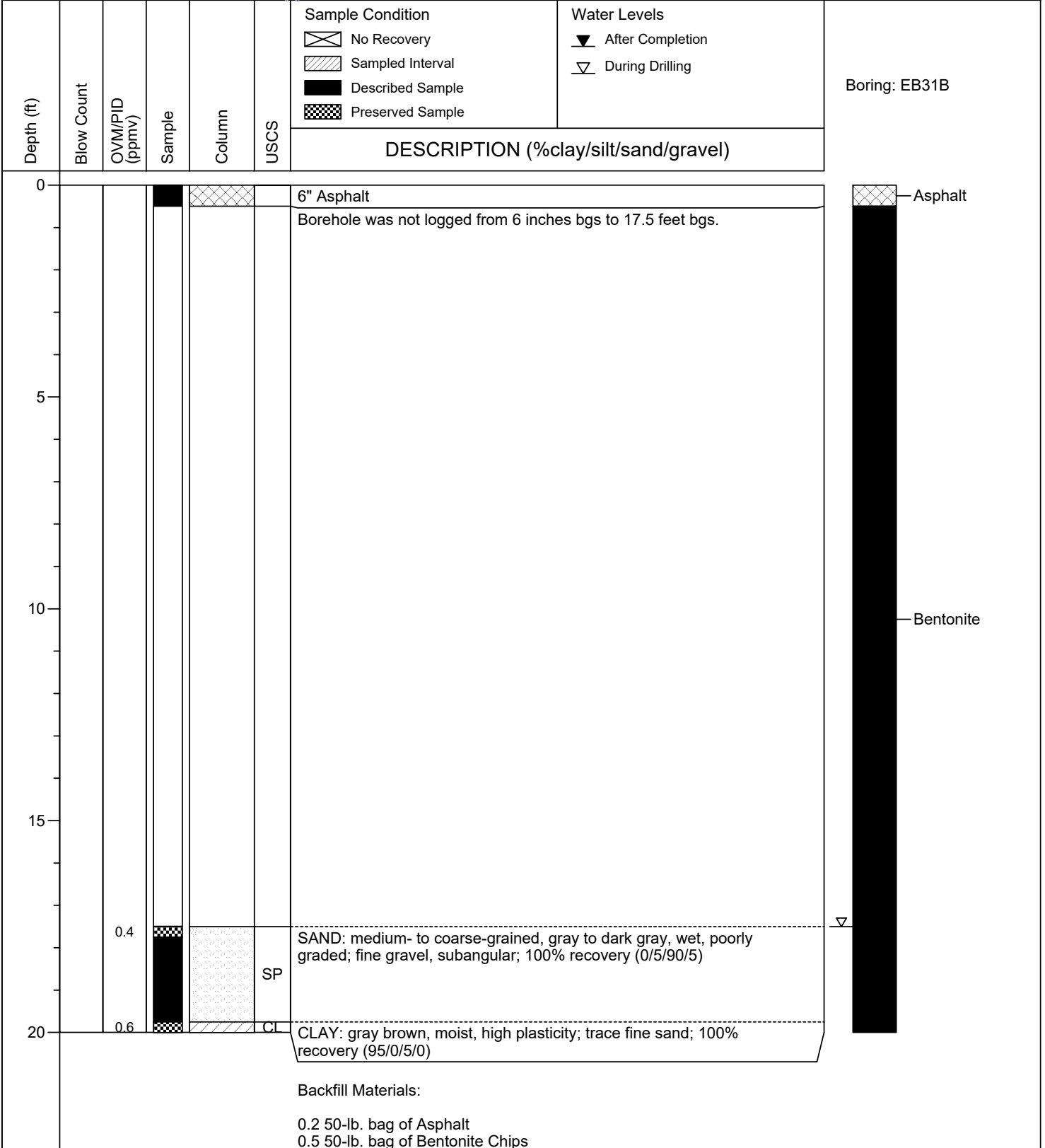


# BORING LOG EB31B

(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  
 First GW Depth: : 17.5' bgs

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*



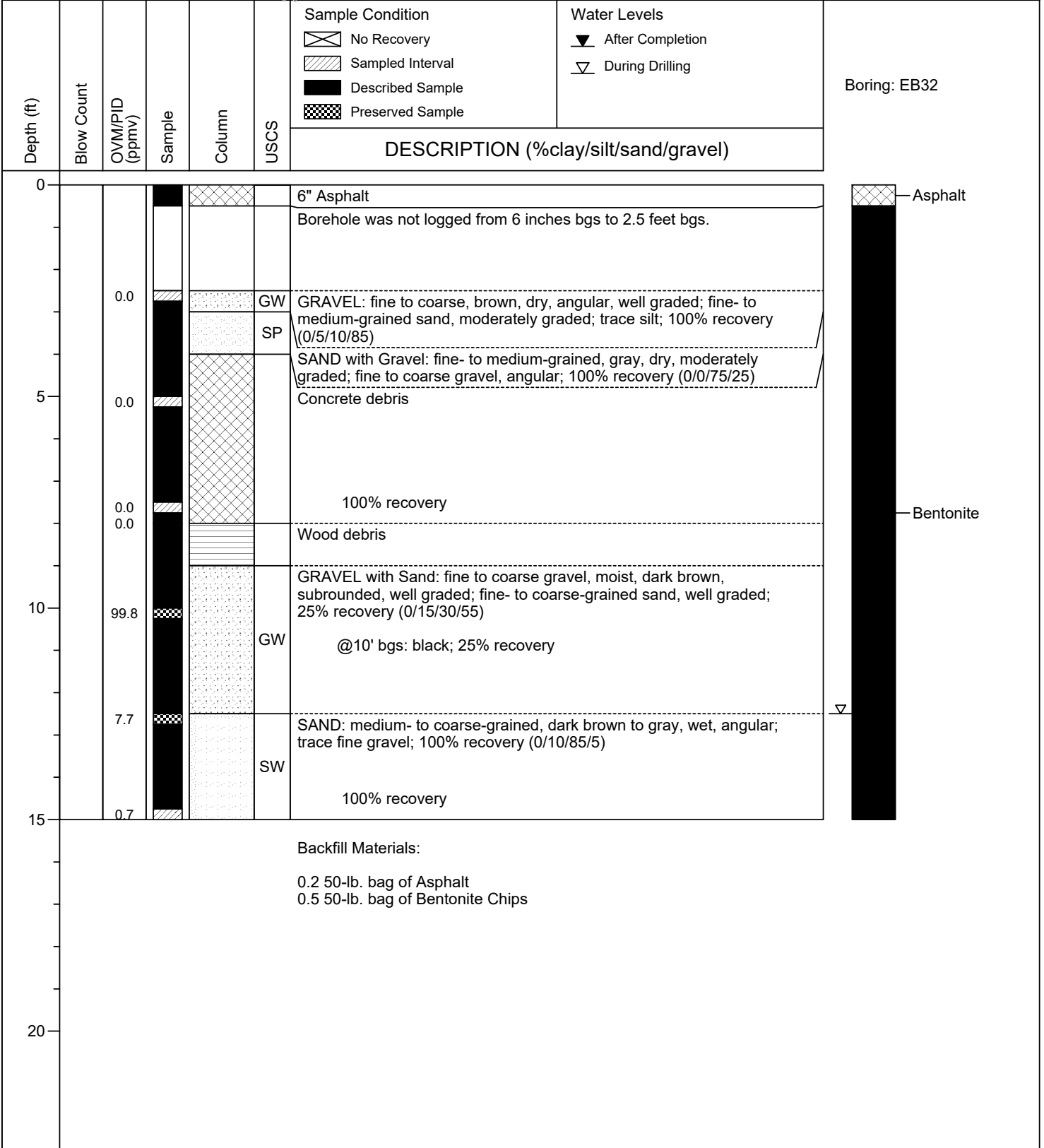


# BORING LOG EB32

(Page 1 of 1)

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: : 15' bgs  
 First GW Depth: : 12.5' bgs

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*



Boring: EB32

Asphalt

Bentonite



# BORING LOG EB32A

(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  
 First GW Depth: : 10.5' bgs

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*

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

Backfill Materials:  
 0.2 50-lb. bag of Asphalt  
 0.5 50-lb. bag of Bentonite Chips



# BORING LOG EB33

(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0								6" Asphalt Debris backfill
0.3					SW			SAND: medium- to coarse-grained, brown, dry, well graded; fine to coarse gravel, subangular to subrounded; 100% recovery (0/0/90/10)
7.2					SP			SAND with Gravel: medium- to coarse-grained, gray, moist; fine to coarse gravel, angular, poorly graded; trace silt; 100% recovery (0/5/60/35)
5.5					SM			Silty SAND: fine-grained, moist, poorly graded; fine to coarse gravel, subangular, well graded; 100% recovery (0/20/70/10)
66.9					SM			NAPL observed; 100% recovery
37.4					SP			SAND: medium- to coarse-grained, dark brown, wet, poorly graded; trace fine gravel, angular; NAPL observed; 100% recovery (0/10/85/5)
15.7					SW			SAND with Gravel: fine- to coarse-grained, black, wet, well graded; fine to coarse gravel, angular to subangular, well graded; NAPL observed; 100% recovery (0/10/55/35)
9.5					SW			NAPL observed; 100% recovery
20.1.7					SM			Silty SAND with Gravel: fine- to coarse-grained, black, wet, well graded; fine to coarse gravel, poorly graded; 100% recovery (0/20/50/30)

Boring: EB33

Asphalt

Bentonite

Backfill Materials:  
 0.2 50-lb. bag of Asphalt  
 0.5 50-lb. bag of Bentonite Chips



# BORING LOG EB34

(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB34
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		Asphalt
						Debris backfill		
0.5					SW	SAND with Gravel: fine- to coarse-grained, light brown, dry, well graded; fine to coarse gravel, subangular to angular, poorly graded; 100% recovery (0/5/65/30)		
						Concrete debris; 100% recovery		
5					SW	SAND with Gravel: fine- to coarse-grained, light brown, dry, well graded; fine to coarse gravel, subangular to angular, poorly graded; 100% recovery (0/5/65/30)		
4.3					SM	Silty SAND: fine- to medium-grained, black, moist, moderately graded; trace fine gravel, poorly graded; 100% recovery (0/15/80/5)		
10		28.6			SP	SAND with Gravel: fine- to medium-grained, black, wet, moderately graded; fine to coarse gravel, subrounded, moderately graded; 100% recovery (0/15/70/15)		Bentonite
		14.1				dark brown; 100% recovery		
15		0.7				100% recovery		
		7.2			SP	SAND: medium- to coarse-grained, dark brown, wet, poorly to moderately graded; trace silt; 100% recovery (0/5/90/5)		
20		0.9				gray brown; 100% recovery		

Backfill Materials:  
 0.2 50-lb. bag of Asphalt  
 0.5 50-lb. bag of Bentonite Chips













# BORING LOG EB39

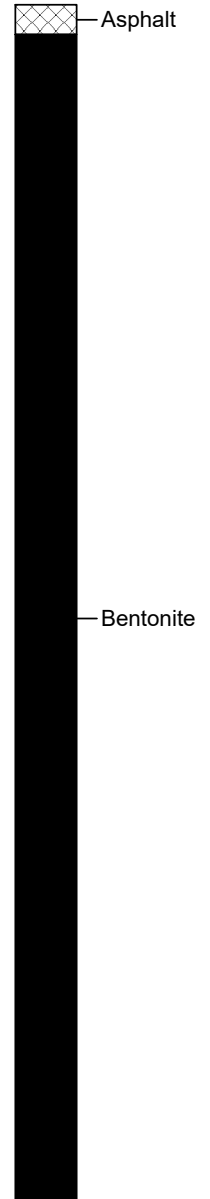
(Page 1 of 1)

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  
 First GW Depth: : N/A

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0								6" Asphalt Borehole was not logged from 6 inches bgs to 2.5 feet bgs.
4.2								Concrete debris SAND: medium- to coarse-grained, brown, dry to damp, poorly graded; 100% recovery (0/5/95/0)
5					SP			Wood debris, 2" layer SAND: medium- to coarse-grained, gray, dry to damp, poorly graded; 100% recovery (0/10/90/0)
8.4					SP			dark gray, organic material present; 100% recovery
10								Wood debris with brown clay, medium plasticity; 100% recovery
10					SP			SAND: medium- to coarse-grained, dark gray, dry to damp, poorly graded; 100% recovery (0/10/90/0)
10								Wood debris with dark brown clay, medium plasticity; 100% recovery
15					SP			SAND: medium- to coarse-grained, gray, dry to damp, poorly graded; 100% recovery (0/10/90/0) dark gray; 100% recovery
15								100% recovery
20					SP			Wood debris with brown clay, medium plasticity; intermittent coarse-grained sand; 100% recovery SAND: medium- to coarse-grained, dark gray, dry to damp, poorly graded; 100% recovery (0/10/90/0) Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips

Boring: EB39





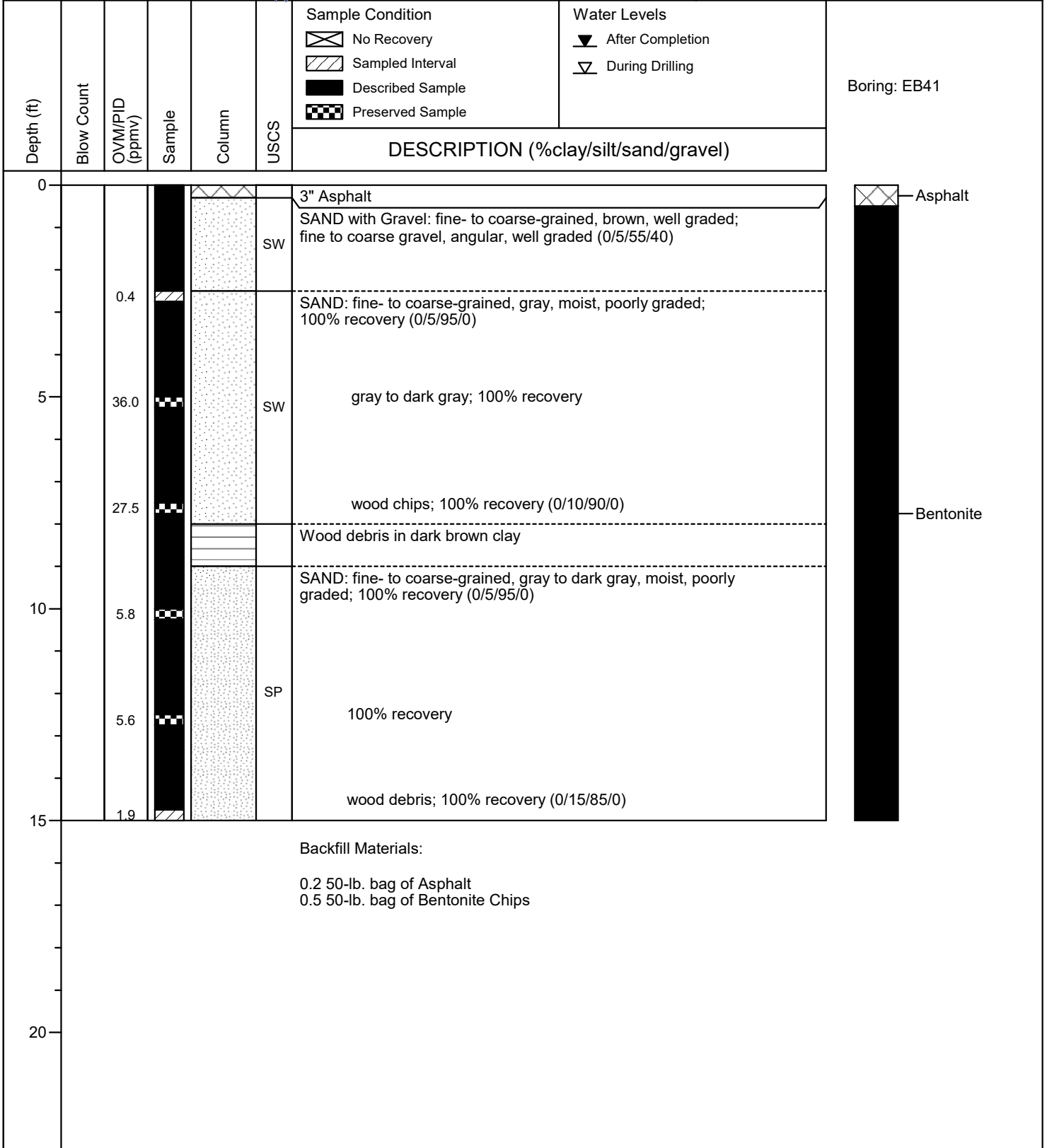


# BORING LOG EB41

(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: : 15' bgs  
 First GW Depth: : N/A

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*





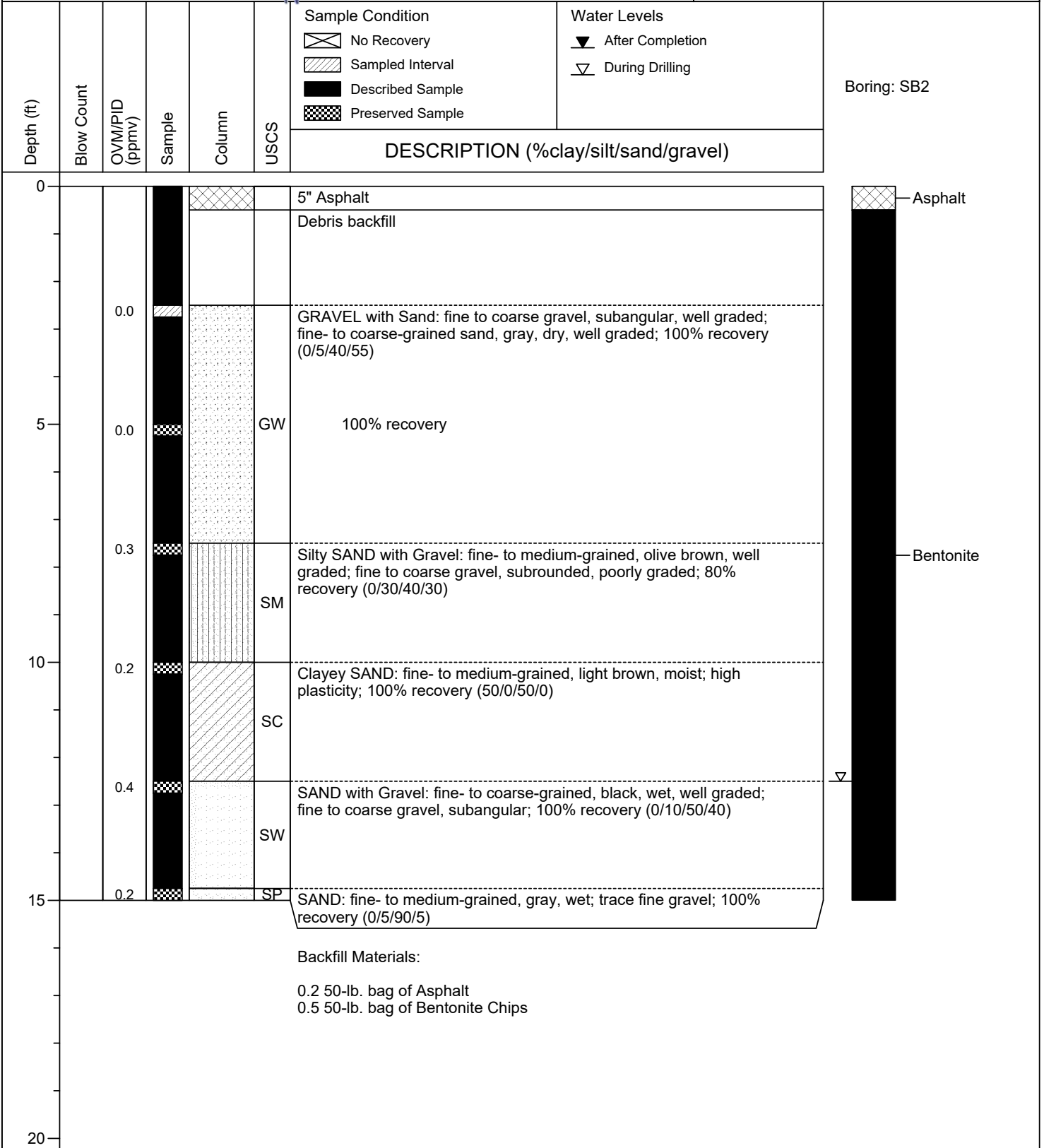


# BORING LOG SB2

(Page 1 of 1)

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

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*



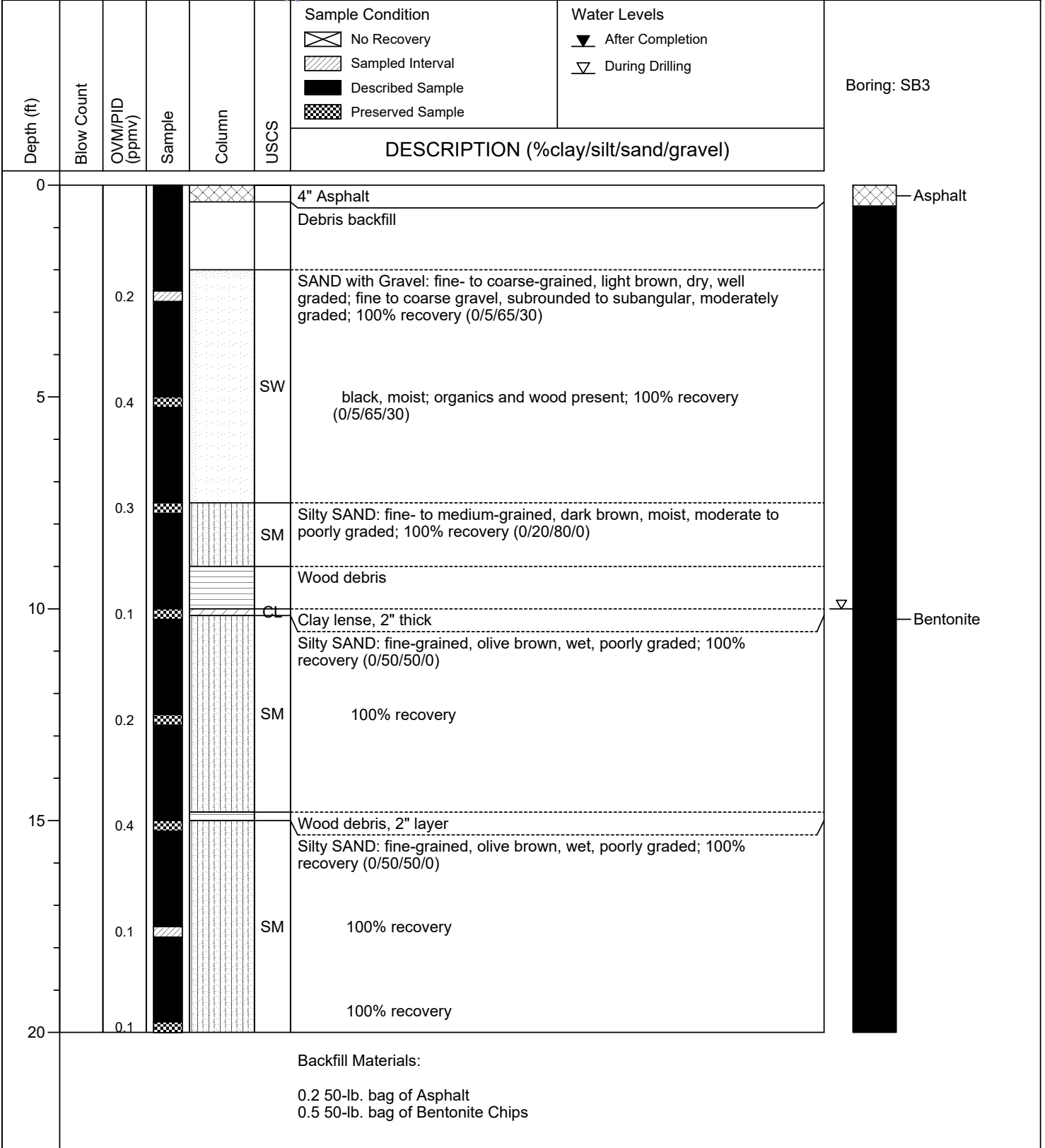


# BORING LOG SB3

(Page 1 of 1)

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: : 10' bgs

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*







# BORING LOG SB4

(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: SB4
						☒ No Recovery ▨ Sampled Interval ■ Described Sample ▩ Preserved Sample	▼ After Completion ▽ During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		Asphalt
						Debris backfill		
0.0					SW	SAND: fine- to coarse-grained, brown, dry; fine to coarse gravel, subangular; 80% recovery (0/5/85/10) wood debris		
0.2					SP	SAND: coarse-grained, gray, dry, poorly graded; trace fine gravel; 100% recovery (0/5/90/5)		
0.4					SP			
10		28.9			SP	SAND with Gravel: fine- to medium-grained, brown, wet, poorly graded; fine to coarse gravel, poorly graded, subrounded; trace silt; 30% recovery (0/5/50/45)	▽	Bentonite
15		24.5			SP	SAND: medium-grained, black, wet, poorly graded; 100% recovery (0/5/90/5)		
14.6					SP	medium- to coarse-grained, trace medium gravel, subrounded; 100% recovery		
12.2					SM	Silty SAND: medium- to coarse-grained, black, wet, moderate to poorly graded; trace fine gravel; 100% recovery (0/20/75/5)		
20		9.6			SP	SAND with Gravel: medium- to coarse-grained, gray, wet, moderately graded; fine to coarse gravel, poorly graded, subangular; 100% recovery (0/5/65/30) Backfill Materials: 0.2 50-lb. bag of Asphalt 0.5 50-lb. bag of Bentonite Chips		



# BORING LOG SB5

(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: SB5
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						2" Asphalt Debris backfill		Asphalt
0.4						SAND with Gravel: fine- to coarse-grained, light brown, dry, well graded; fine gravel, subangular, moderately graded; 100% recovery (0/5/60/35)		
5						100% recovery		
0.4					SW	100% recovery wet	<input checked="" type="checkbox"/>	
10						dark brown; 100% recovery (0/10/60/30)		Bentonite
0.2						100% recovery (0/15/55/30)		
15					SM	Silty SAND with Gravel: fine- to coarse-grained, black, wet, well graded; fine gravel, subangular, moderately graded; 100% recovery (0/20/55/25)		
0.5					SM	Silty SAND: fine-grained, black, damp, poorly graded; trace organic matter; 100% recovery (0/30/70/0)		
20					SP	SAND: medium- to coarse-grained, brown, damp, poorly graded; trace fine gravel; 100% recovery (0/5/90/5)		

Backfill Materials:  
 0.2 50-lb. bag of Asphalt  
 0.5 50-lb. bag of Bentonite Chips







# BORING LOG A2

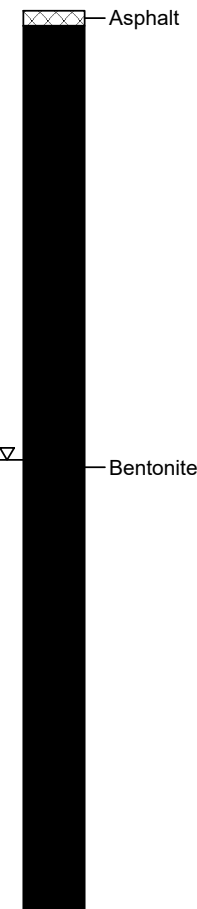
(Page 1 of 1)

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: : 7.5' bgs

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					SP			SAND: medium- to coarse-grained, brown, dry; 90% recovery (5/0/95/0)  fine- to medium-grained, olive gray, moist; fine gray subrounded gravel; 100% recovery (5/10/80/5)
5 - 15					SM			Silty SAND: medium-grained, olive gray, wet; 100% recovery (5/15/80/0)  100% recovery  moist, possible LNAPL observed; 100% recovery  no apparent LNAPL; 100% recovery
15 - 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

Boring: A2



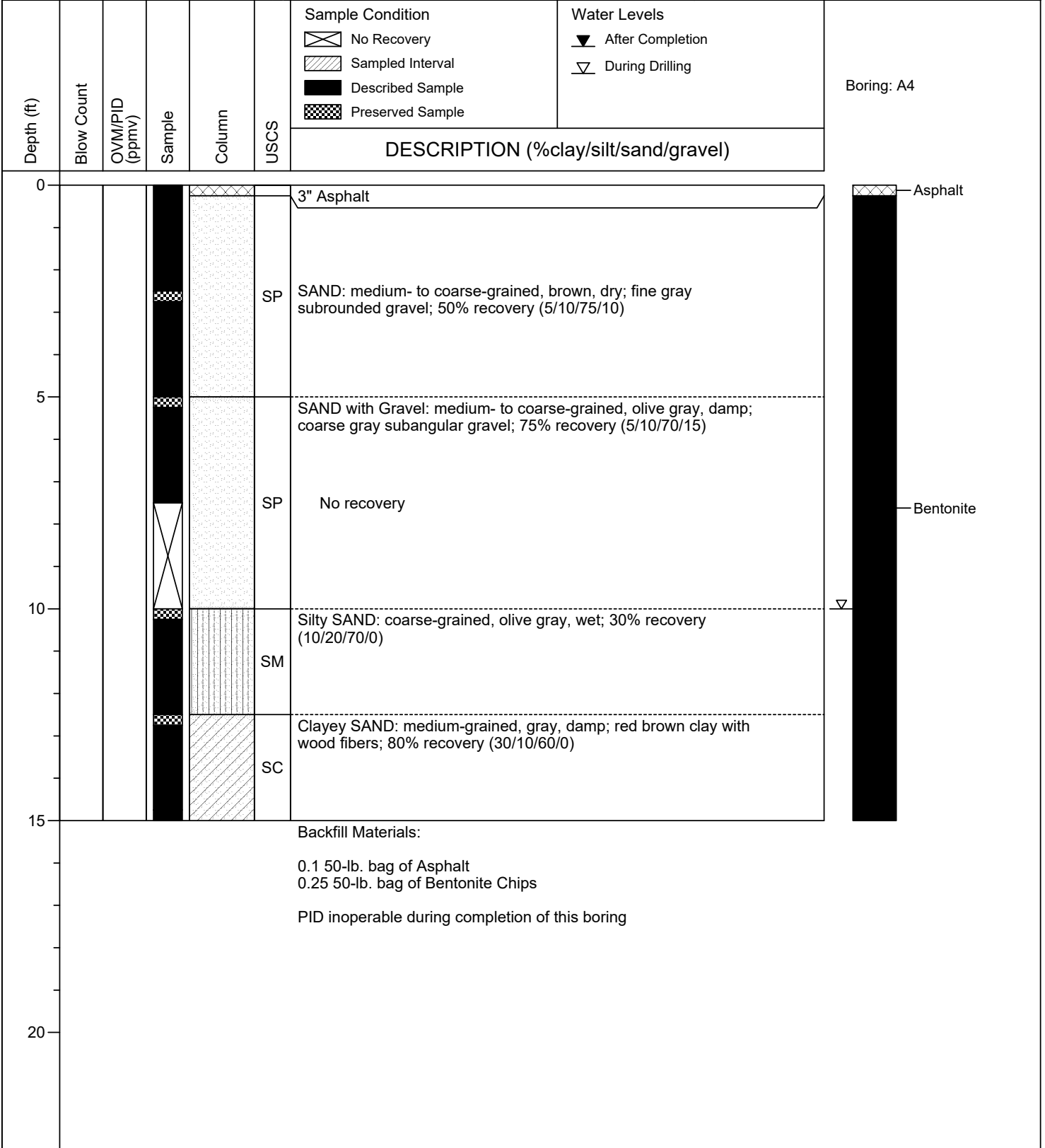


# BORING LOG A4

(Page 1 of 1)

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

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*





# BORING LOG A6

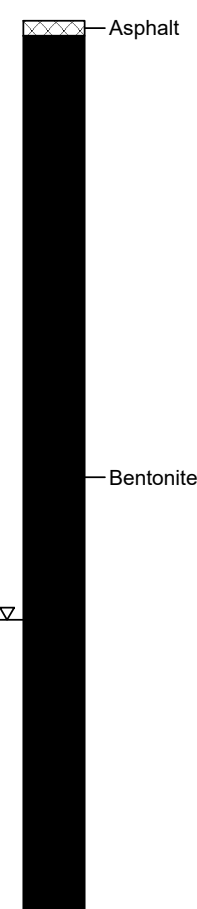
(Page 1 of 1)

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: : 10' bgs

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 3								Silty SAND: medium-grained, olive gray, moist, LNAPL observed; 70% recovery (0/20/80/0)
3 - 5								medium- to coarse-grained, damp; LNAPL observed; 75% recovery
5 - 10					SM			LNAPL observed; 70% recovery
10 - 12								fine- to medium-grained, wet, no LNAPL observed; 90% recovery (10/40/50/0)
12 - 15								dark gray, moist; 90% recovery (0/40/60/0)
15 - 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

Boring: A6





# BORING LOG A8

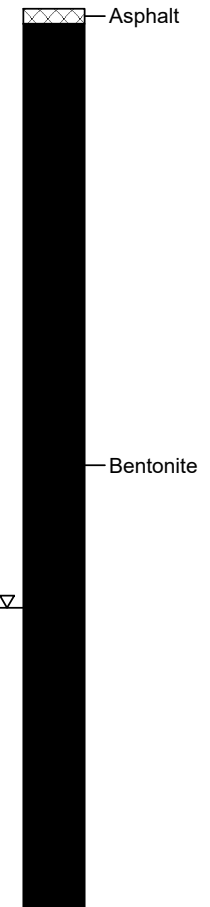
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5								Silty SAND: fine- to medium-grained, gray, damp; fine gray subrounded gravel; 60% recovery (10/40/45/5)
5 - 10					SM	No recovery		No recovery
10 - 15								fine-grained, saturated, LNAPL observed from 10 to 14' bgs; no gravel; 50% recovery (10/40/50/0)
15 - 20					ML			fine- to medium-grained, damp; fine gray subrounded gravel; 50% recovery (10/40/45/5)
15 - 20								Clayey SILT: red brown with black coating, damp; wood fibers; 50% recovery (40/60/0/0)
15 - 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

Boring: A8







# BORING LOG B1

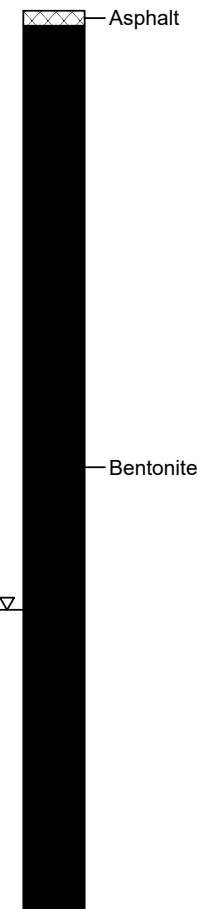
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					SP			SAND: medium- to coarse-grained, brown, dry; 70% recovery (5/0/95/0)
5 - 10								Silty SAND: medium- to coarse-grained, olive brown, moist; 100% recovery (5/20/75/0)
10 - 15					SM			olive gray; coarse gray rounded gravel; 100% recovery (0/20/70/10)
15 - 20								dark gray, wet; no gravel; 100% recovery (5/20/75/0)
20 - 25								fine- to medium-grained, gray, moist; 100% recovery (0/25/75/0)
Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips PID inoperable during completion of this boring								

Boring: B1



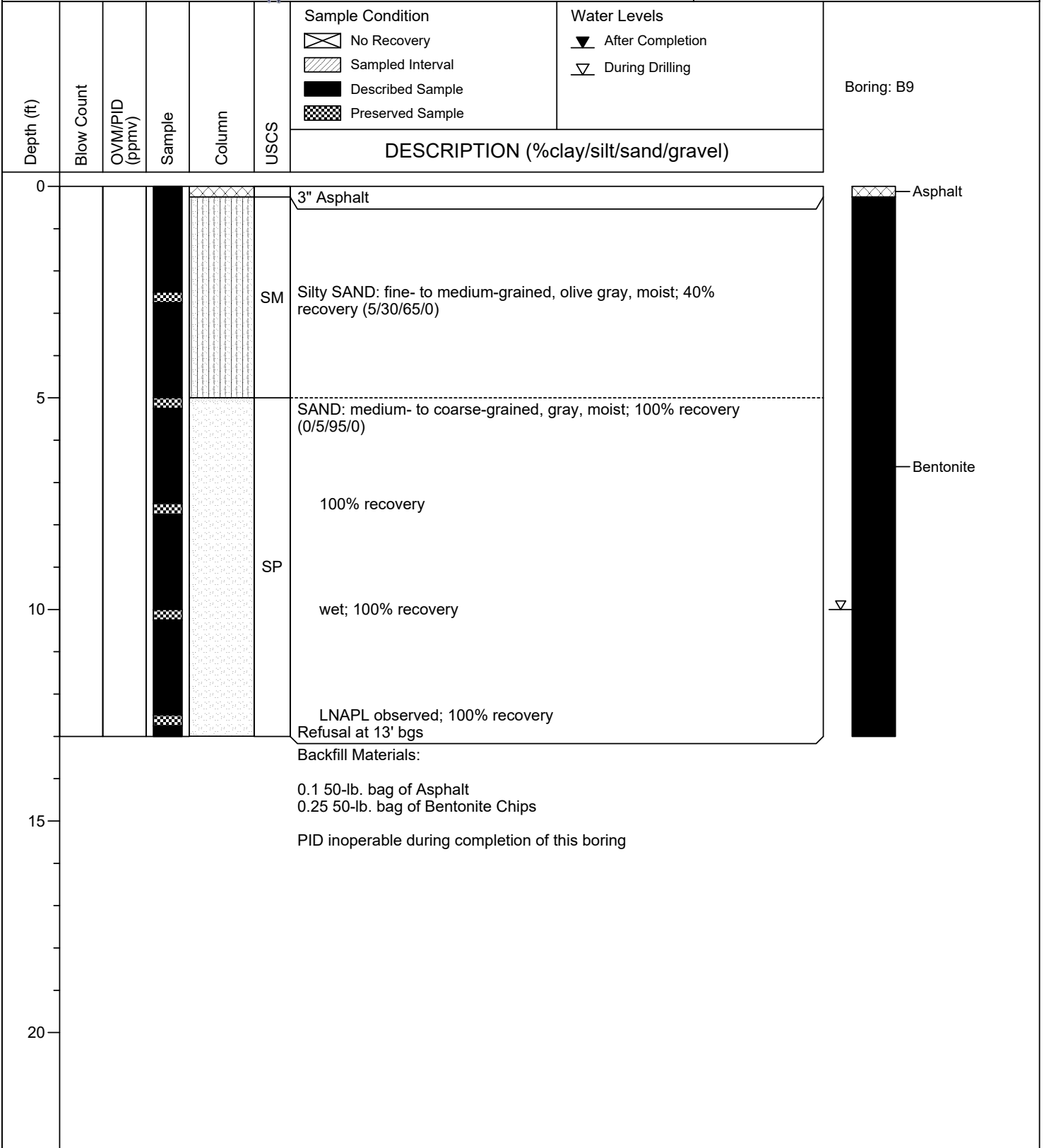


# BORING LOG B9

(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: : 13' bgs  
 First GW Depth: : 10' bgs

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*





# BORING LOG C2

(Page 1 of 1)

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: : 12.5' bgs

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : Paul Prevou  
 Reviewed By: : Kerj Chappell, L.G. 2719  
 Signature: : *Kerj Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: C2
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		Asphalt
					GP	GRAVEL: fine to coarse, gray, damp, poorly graded, well rounded; 35% recovery (0/0/0/100)		
5		0.5			GW	GRAVEL with Sand: fine to coarse, black, moist, well graded, fine angular gravel, coarse well rounded gravel; fine- to coarse-grained well graded sand; 50% recovery (0/0/20/80)		
		23.8			SM	Silty SAND: medium- to coarse-grained, dark brown, moist, moderately graded; 50% recovery (0/15/85/0)		Bentonite
10		2.1			SP	SAND: medium- to coarse-grained, dark brown, moist, poorly to moderately graded; 75% recovery (0/10/90/0)		
		6.7			SM	Silty SAND: medium- to coarse-grained, dark brown, moist to wet, moderately graded; 100% recovery (0/15/85/0)		
15	Backfill Materials:							
	0.1 50-lb. bag of Asphalt							
	0.25 50-lb. bag of Bentonite Chips							
20								



# BORING LOG C4

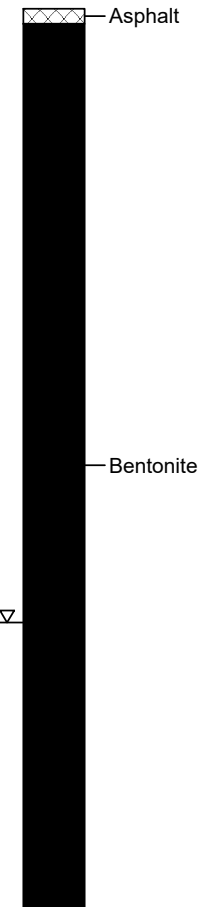
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
					GP			GRAVEL: fine to coarse, gray, damp, well rounded, poorly to moderately graded; 35% recovery (0/0/0/100)
5		36.5			SW			SAND with Gravel: fine- to coarse-grained, dark gray, moist, well graded; fine to coarse angular gravel; 50% recovery (0/10/70/20)
		29.8			SP			SAND: fine-grained, dark gray, damp to dry, poorly graded; 60% recovery (5/10/85/0) Wood layer observed from 8' to 10'3" bgs
10		17.1			SW			SAND: fine- to coarse-grained, dark brown, wet, well graded; trace fine to coarse angular gravel; trace silt; 70% recovery
		12.0			SP			SAND: medium- to coarse-grained, dark gray, damp, poorly graded; trace wood debris; 100% recovery (0/0/100/0)
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: C4



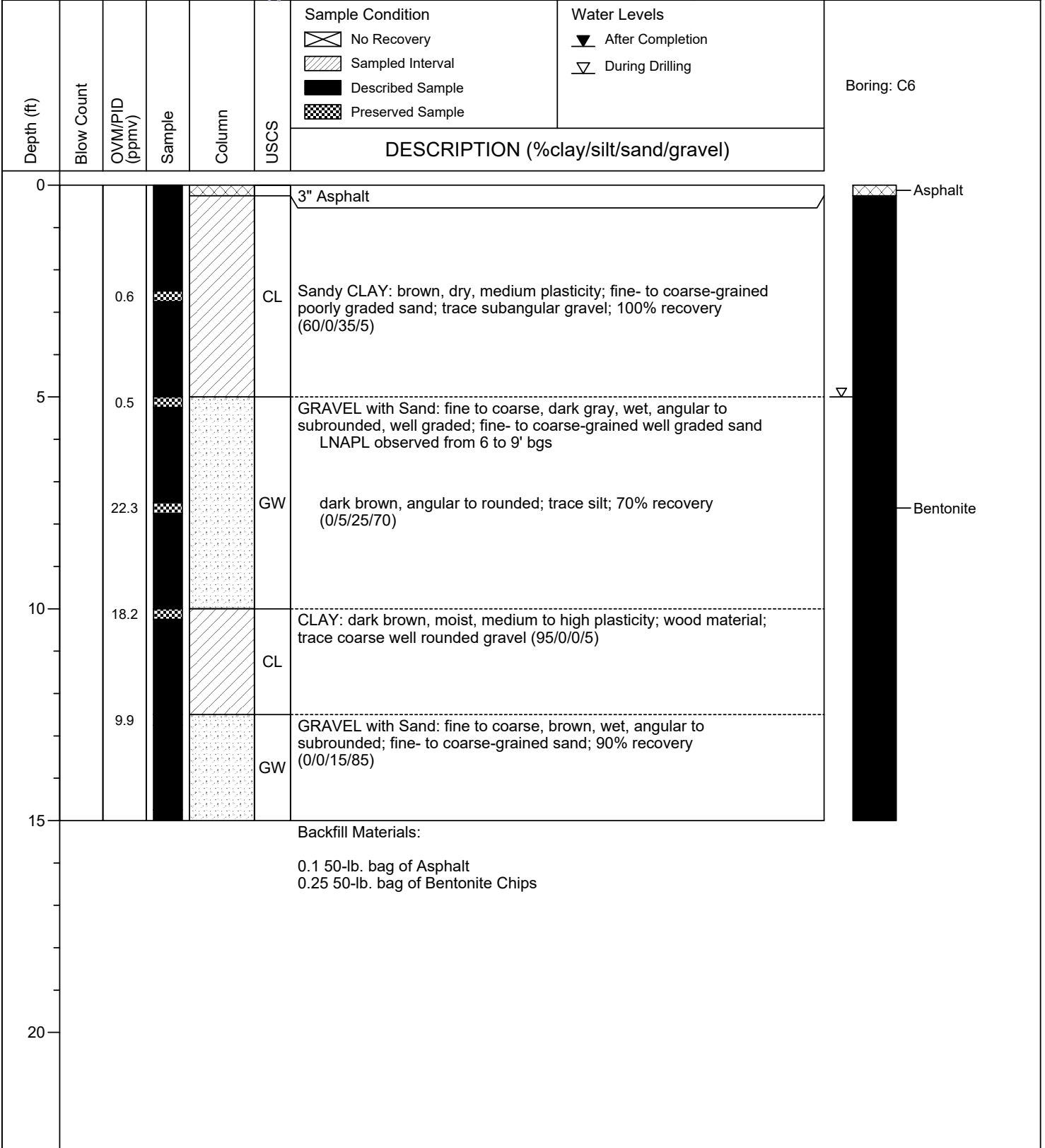


# BORING LOG C6

(Page 1 of 1)

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

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*



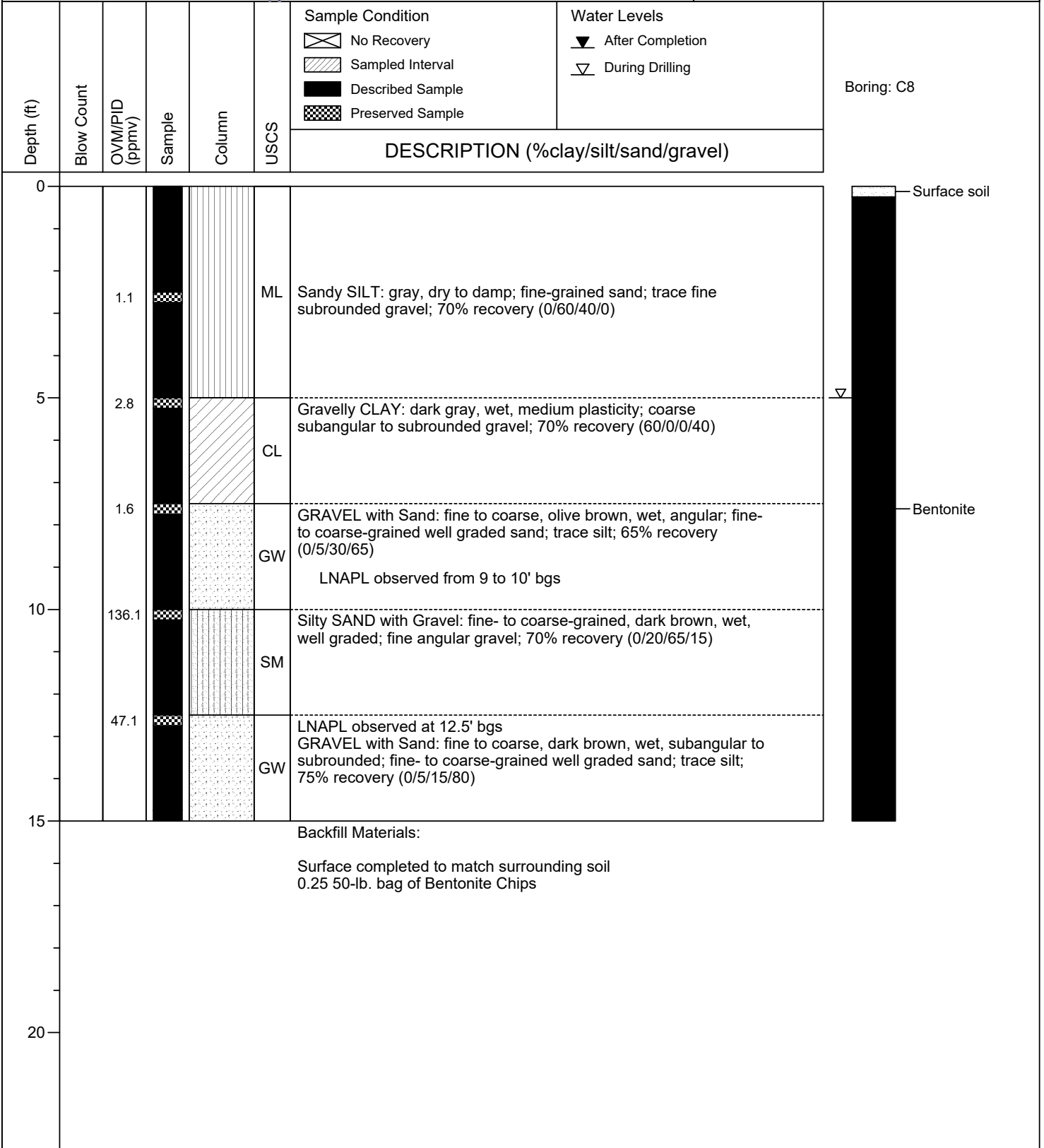


# BORING LOG C8

(Page 1 of 1)

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

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*



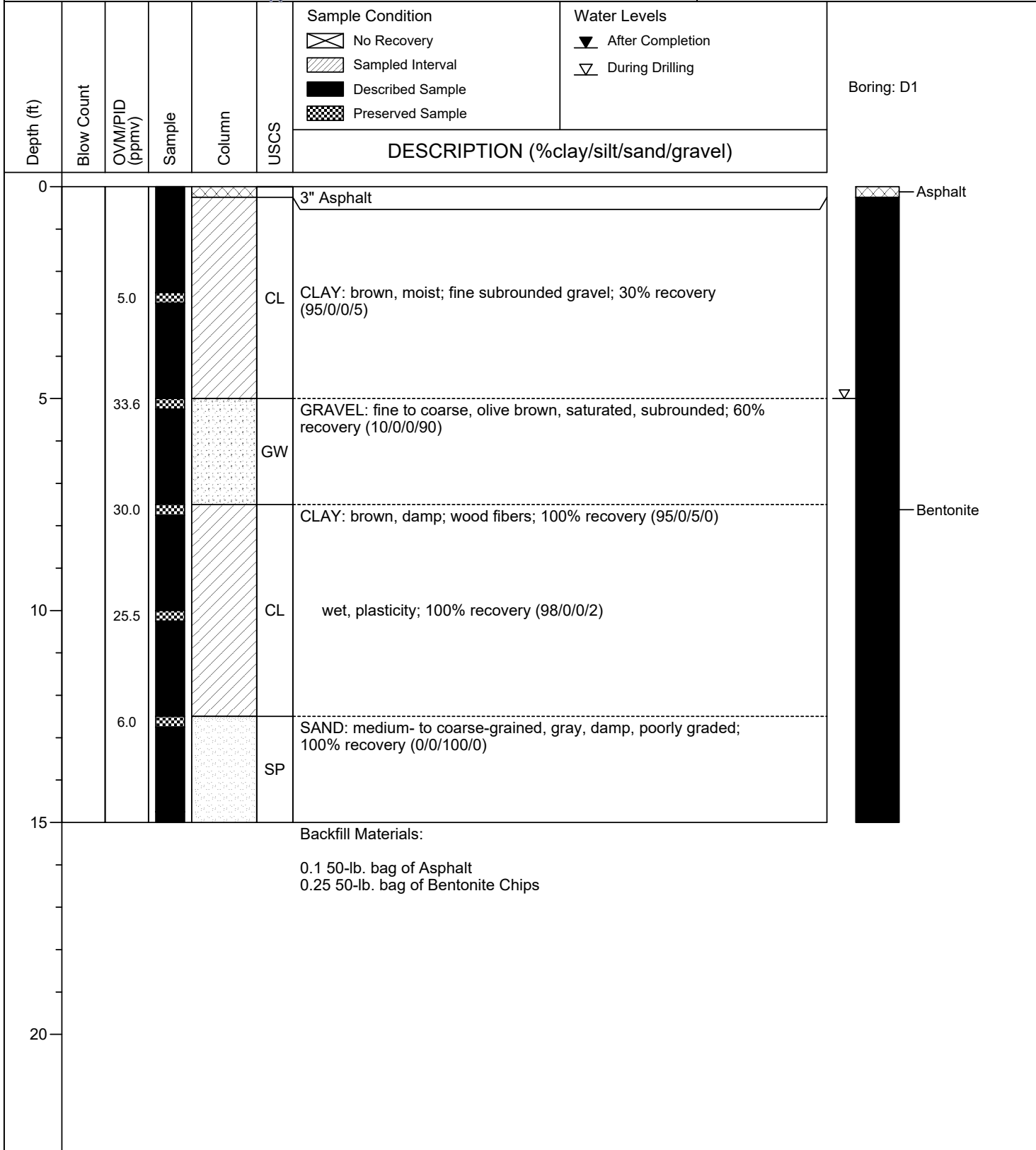


# BORING LOG D1

(Page 1 of 1)

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

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*





# BORING LOG D3

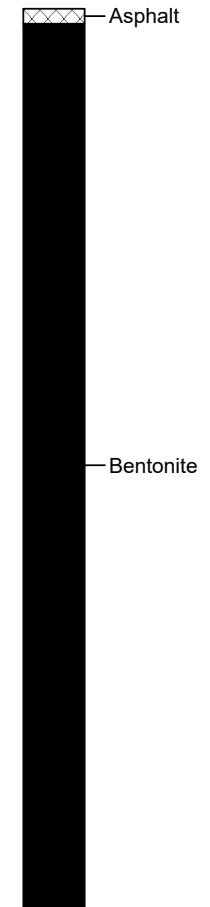
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
59.8					SW			SAND with Gravel: fine- to coarse-grained, gray, damp; wood fibers; subrounded well graded gravel; 100% recovery (10/10/65/15)
91.6					CL			Sandy CLAY: brown, damp, plasticity; fine- to coarse-grained sand; 100% recovery (60/0/40/0)
17.2								SAND: fine- to coarse-grained, dark brown, damp; wood pieces; 100% recovery (0/5/95/0)
35.3					SW			gray, moist; 100% recovery (0/0/100/0)
8.0								medium- to coarse-grained; 100% recovery
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: D3





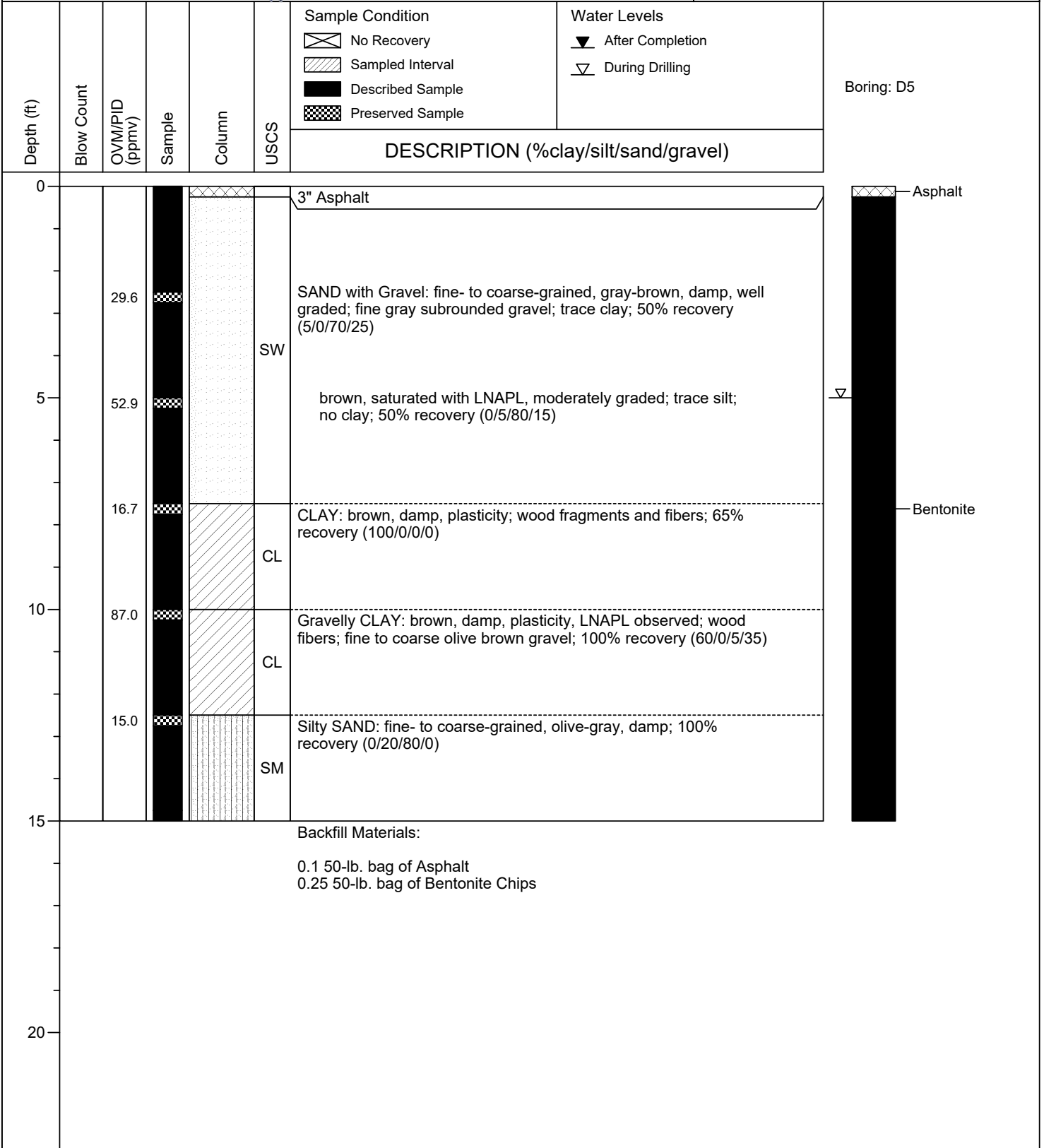


# BORING LOG D5

(Page 1 of 1)

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

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : John Considine  
 Reviewed By: : Kerj Chappell, L.G. 2719  
 Signature: : *Kerj Chappell*



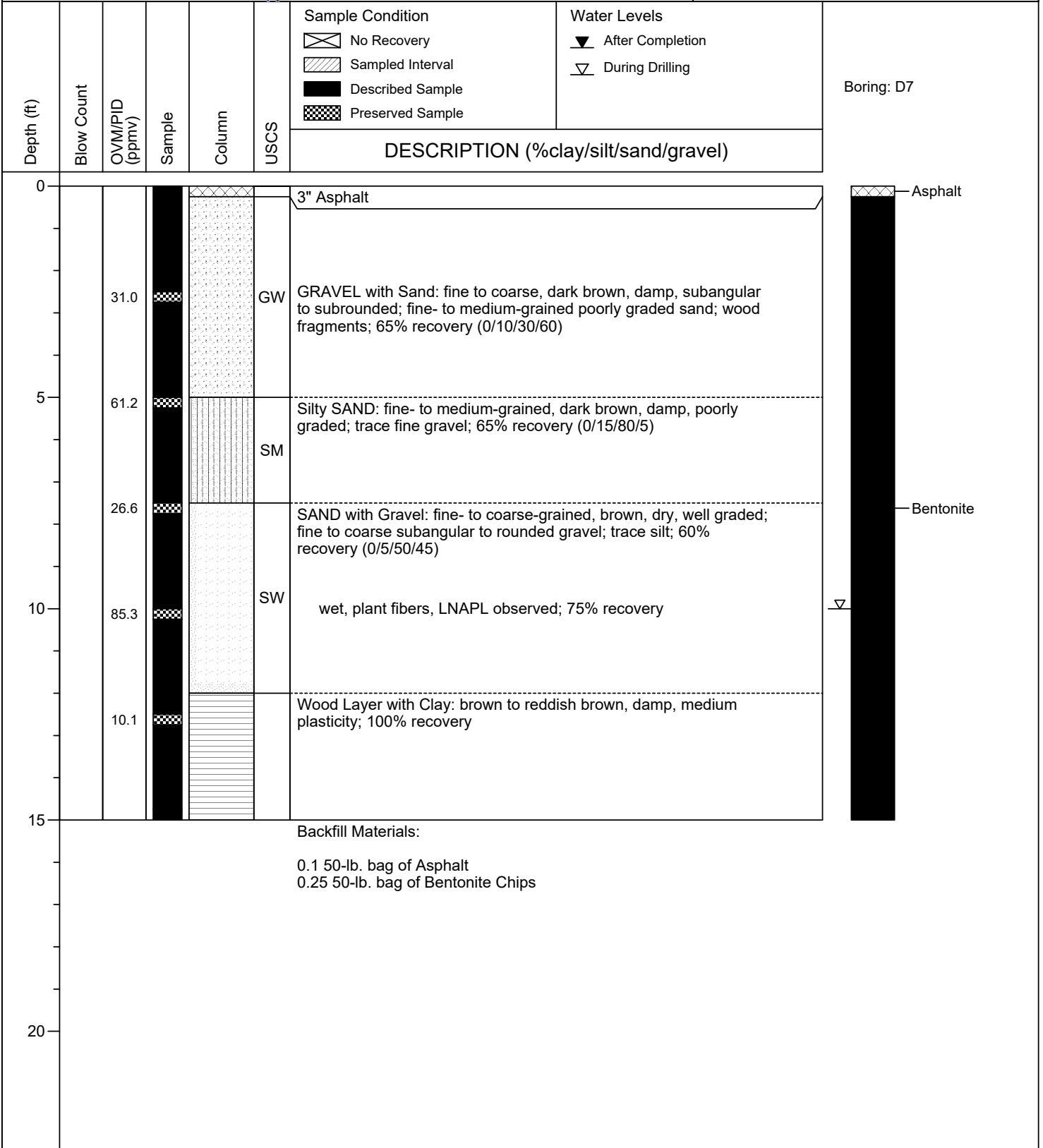


# BORING LOG D7

(Page 1 of 1)

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

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*







# BORING LOG E2

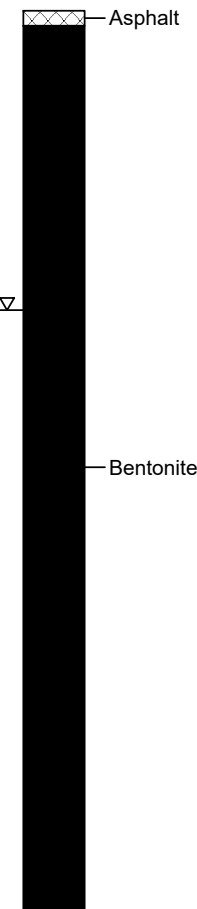
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
11.4					CL			Gravelly CLAY: brown, damp, plasticity; fine to coarse gray subrounded well graded gravel; 30% recovery (60/0/0/40)
45.6					GM			Silty GRAVEL: fine to coarse, gray, wet, subrounded, very well graded; 30% recovery (0/20/0/80)
81.0					CL			Sandy CLAY: olive gray, damp, plasticity; fine- to medium-grained sand; 30% recovery (60/0/40/0)
40.6					SW			SAND with Gravel: fine- to coarse-grained, olive gray, wet, very well graded; fine to coarse subrounded gravel; 100% recovery (0/10/60/30)
7.0					CL			Sandy CLAY: gray-brown, damp, plasticity; wood fibers; fine- to medium-grained sand; 100% recovery (50/0/50/0)
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: E2





# BORING LOG E4

(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: E4
						☒ No Recovery ▨ Sampled Interval ■ Described Sample ▩ Preserved Sample	▼ After Completion ▽ During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		Asphalt
25.7			▩		GC	Clayey GRAVEL: fine to coarse, gray, damp, rounded to subrounded, very well graded; plasticity; 40%/0/10/50		
17.0			▩		GW	GRAVEL with Sand: fine to coarse, olive brown, saturated, subangular to subrounded; fine- to coarse-grained olive brown well graded sand; 20% recovery (5/10/35/50)	▽	
19.0			▩		CL	CLAY with Sand: brown and gray, damp, plasticity; wood fibers; fine-grained brown and gray very poorly graded sand; 70% recovery (80/0/20/0)		Bentonite
12.4			▩		CL	CLAY: olive brown, moist, plasticity; fine subangular gravel; 100% recovery (90/0/0/10)		
6.1			▩		SW	SAND: fine- to coarse-grained, gray, damp, well graded; 80% recovery (0/0/100/0)		
15	Backfill Materials:							
	0.1 50-lb. bag of Asphalt							
	0.25 50-lb. bag of Bentonite Chips							
20								

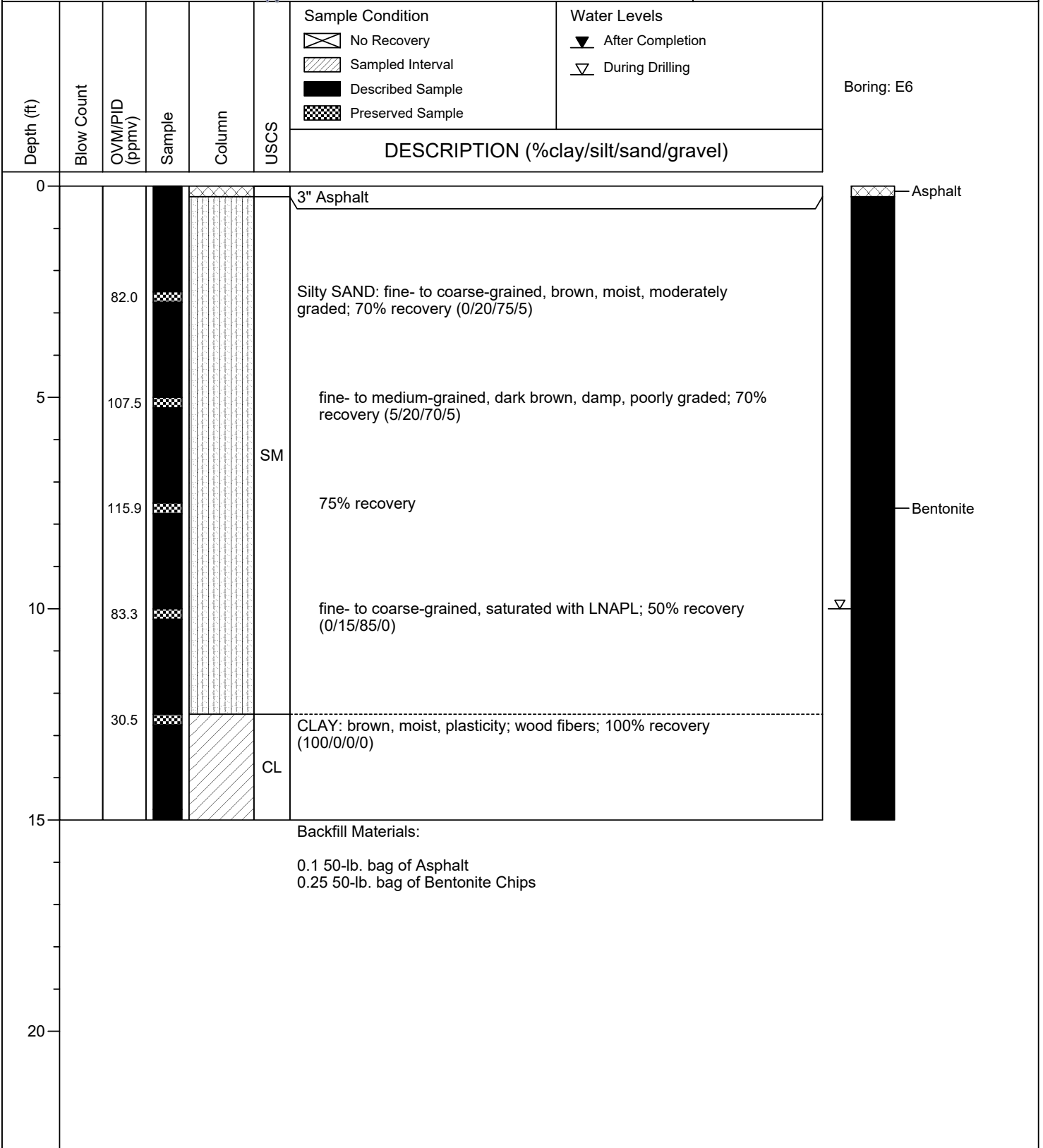


# BORING LOG E6

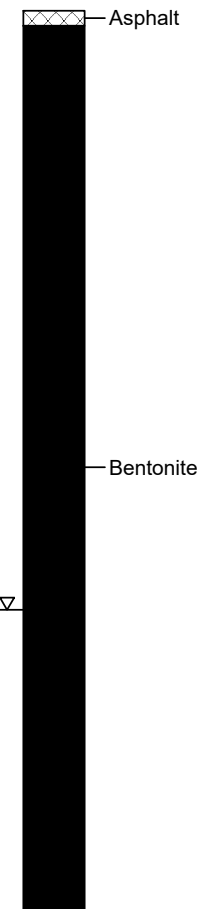
(Page 1 of 1)

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

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*



Boring: E6





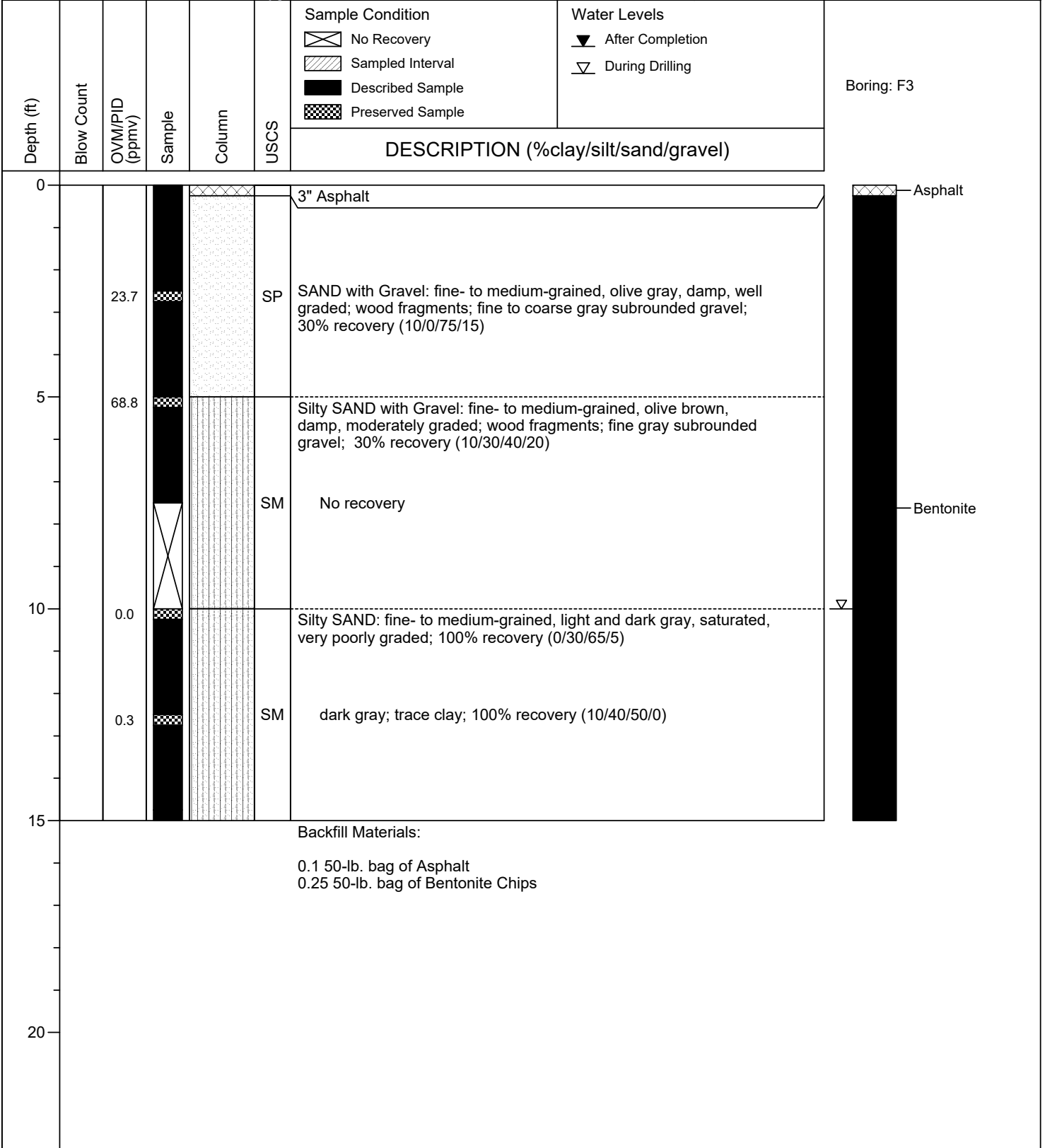


# BORING LOG F3

(Page 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"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : 10' bgs

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*



Boring: F3

Asphalt

Bentonite



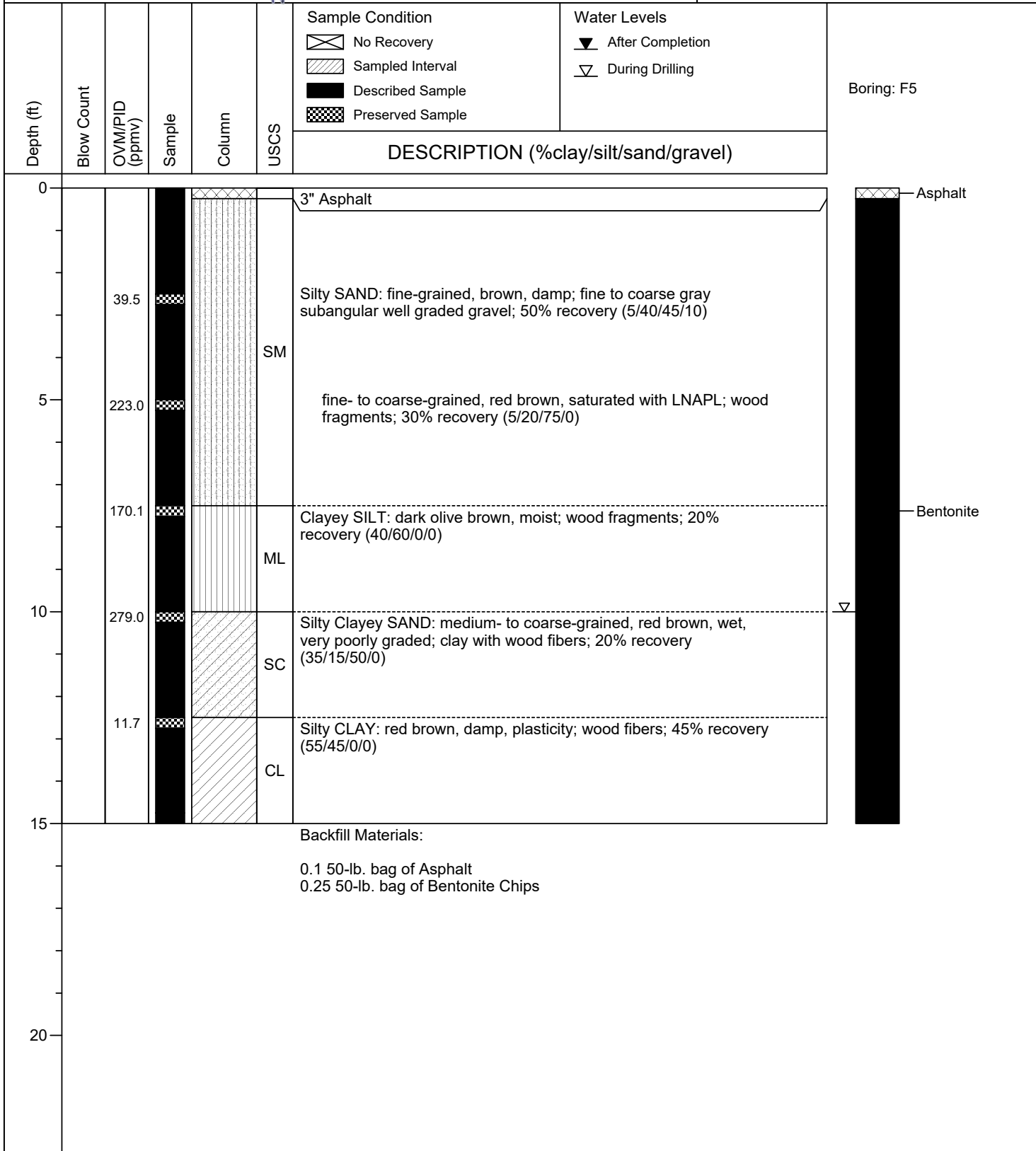


# BORING LOG F5

(Page 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"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : 10' bgs

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*



Boring: F5

Asphalt

Bentonite



# BORING LOG F7

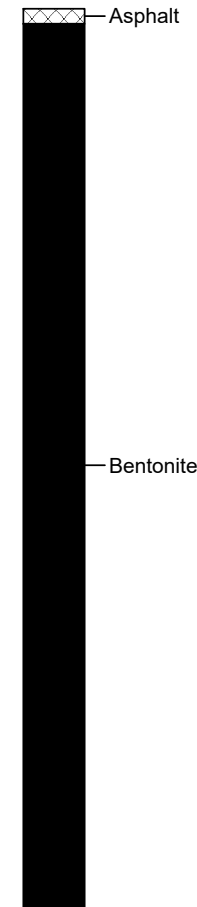
(Page 1 of 1)

Date Drilled: : 08/10/21  
 Drilling Co.: : Holocene Drilling, Inc.  
 Drilling Method: : Push Probe  
 Sampling Method: : M5 liners  
 Borehole Diameter: : 2.5"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : N/A

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
18.2								Silty SAND: fine- to medium-grained sand, dark brown, dry; fine to coarse dark gray subrounded gravel; wood fragments; 80% recovery (10/40/40/10)
5					SM			olive brown, damp; 80% recovery (10/40/45/5)
58.8								brown, moist; coarse brown subangular gravel; 80% recovery (10/40/48/2)
10								fine- to coarse-grained, red brown, very poorly graded; 100% recovery (5/45/50/0)
12.7					ML			Clayey SILT: red brown, damp; wood fibers; 100% recovery (40/60/0/0)
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: F7





# BORING LOG F9

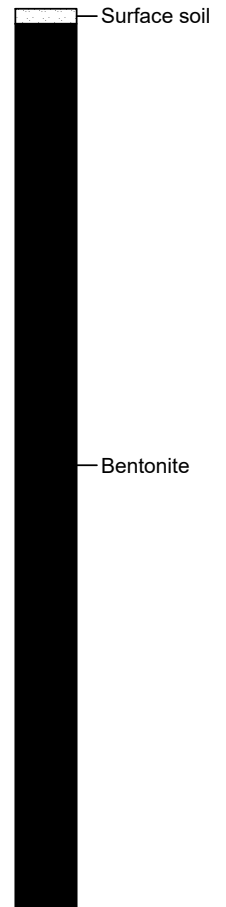
(Page 1 of 1)

Date Drilled: : 08/10/21  
 Drilling Co.: : Holocene Drilling, Inc.  
 Drilling Method: : Push Probe  
 Sampling Method: : M5 liners  
 Borehole Diameter: : 2.5"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : N/A

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								Surface soil
7.2			<input checked="" type="checkbox"/>		SM			Silty SAND: fine- to medium-grained, gray, dry, well graded; fine gray subrounded gravel; 50% recovery (5/30/60/5)
85.5			<input checked="" type="checkbox"/>					damp; 20% recovery
363.5			<input checked="" type="checkbox"/>		ML			Clayey SILT: dark and light gray, plasticity; wood fibers; 20% recovery (40/60/0/0)
155.2			<input checked="" type="checkbox"/>		SM			Silty SAND: fine- to medium-grained, red brown, damp, poorly graded; wood fragments; 100% recovery (10/40/50/0)
8.3			<input checked="" type="checkbox"/>		ML			Clayey SILT: red brown, damp, plasticity; wood fibers; 100% recovery (40/60/0/0)
15								Backfill Materials: Surface completed to match surrounding soil 0.25 50-lb. bag of Bentonite Chips
20								

Boring: F9



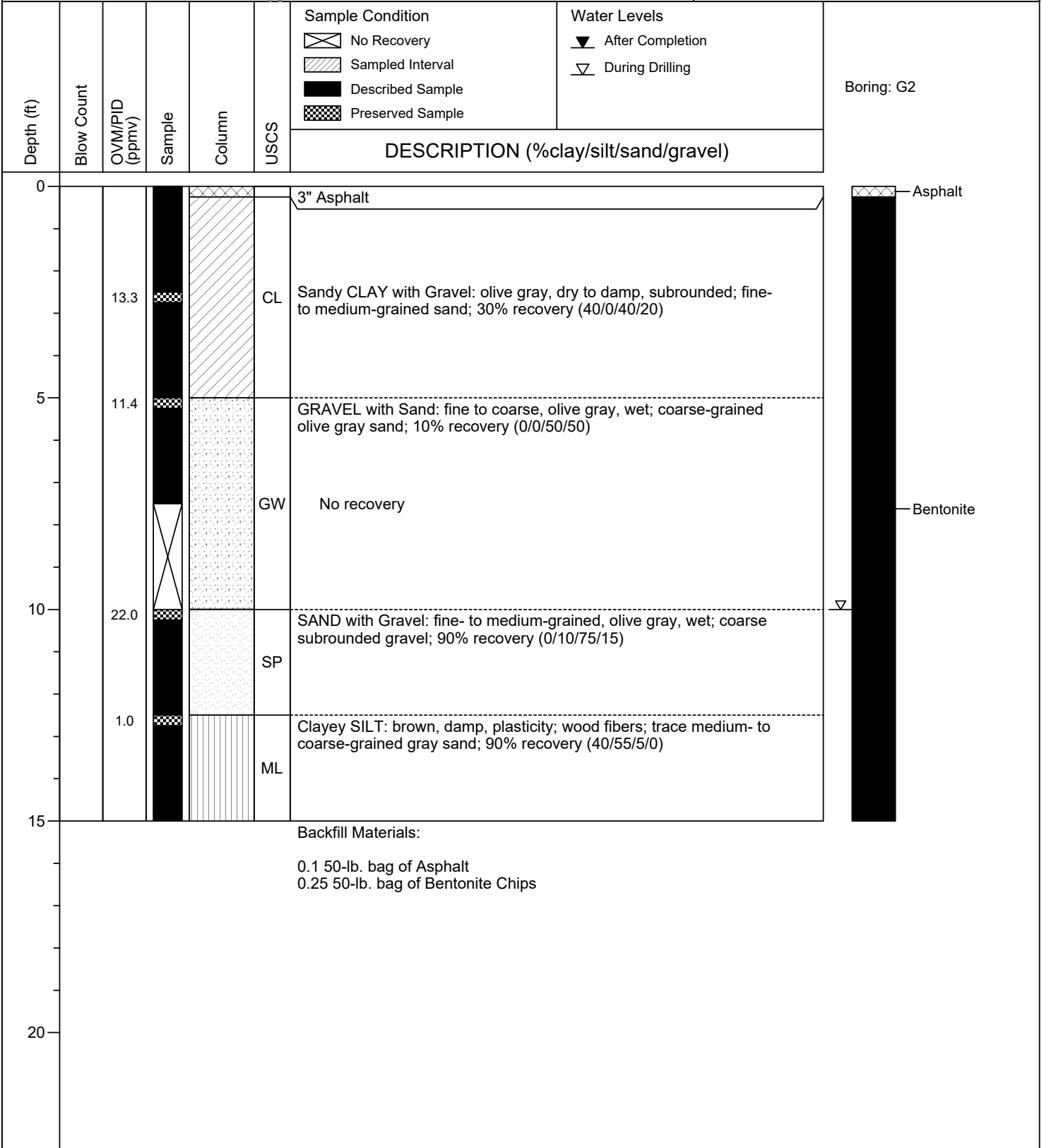


# BORING LOG G2

(Page 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"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : 10' bgs

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*



Boring: G2

Asphalt

Bentonite



# BORING LOG G4

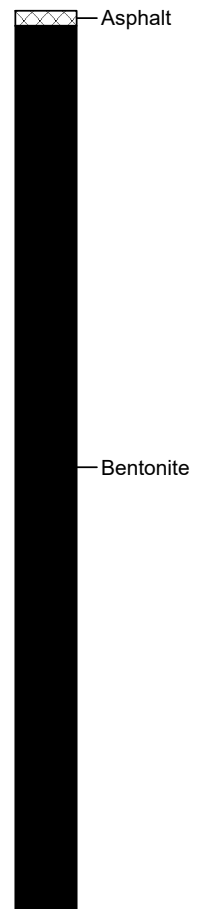
(Page 1 of 1)

Date Drilled: : 08/10/21  
 Drilling Co.: : Holocene Drilling, Inc.  
 Drilling Method: : Push Probe  
 Sampling Method: : M5 liners  
 Borehole Diameter: : 2.5"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : N/A

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
28.3								Silty SAND with Gravel: fine-grained, brown, damp; fine to coarse gray subrounded moderately graded gravel; 100% recovery (10/30/40/20)
24.0					SM			100% recovery (10/35/40/15)
1.5								subangular gravel; 20% recovery (10/30/45/15)
13.0					ML			Sandy SILT: gray, damp, plasticity; fine-grained poorly graded sand; 100% recovery (15/50/30/5)
1.4					ML			Clayey SILT: brown, plasticity; wood fibers; 100% recovery (40/60/0/0)
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: G4





# BORING LOG G6

(Page 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"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : 10' bgs

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
52.0								Silty SAND: fine- to medium-grained, gray, damp; fine to coarse gray subangular moderately graded gravel; 50% recovery (5/40/50/5)
47.5					SM			brown gray; fine subrounded gravel; 90% recovery (5/35/55/5)
106.2								light gray to brown; 75% recovery
84.5								fine- to coarse-grained, red brown, saturated with LNAPL; 10% recovery (0/40/60/0)
47.6					SM			Silty SAND with Gravel: fine-grained, olive gray, wet; fine to coarse olive gray well graded gravel; 20% recovery (5/35/45/15)
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: G6

Asphalt

Bentonite

▽





# BORING LOG H3

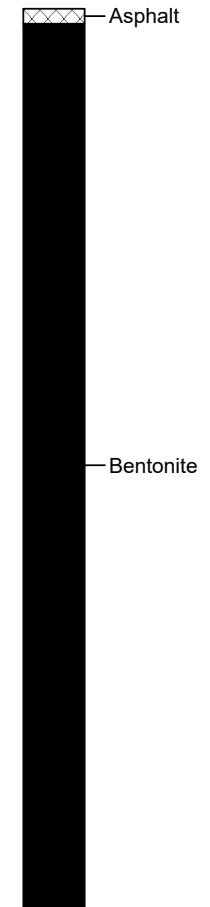
(Page 1 of 1)

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: : N/A

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
16.5					SM			Silty SAND: fine-grained, dark brown, damp; fine gray subrounded poorly graded gravel; 100% recovery (10/40/45/5)
5								Concrete debris observed at 5' bgs
7.3					ML			SILT with Clay: gray, dry, plasticity; 100% recovery (20/70/10/0)
11.1					ML			SILT: gray, dry; 100% recovery (10/70/20/0)
18.5					SM			Silty SAND: fine-grained, gray, dry, very poorly graded; 100% recovery (10/40/50/0)
2.0					ML			Clayey SILT: brown, damp, plasticity, wood fibers; 35% recovery (40/60/0/0)
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: H3







# BORING LOG H5

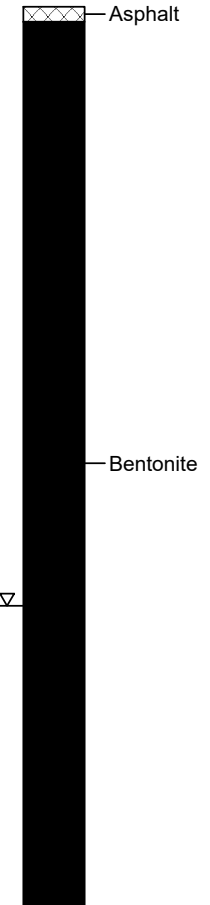
(Page 1 of 1)

Date Drilled: : 08/10/21  
 Drilling Co.: : Holocene Drilling, Inc.  
 Drilling Method: : Push Probe  
 Sampling Method: : M5 liners  
 Borehole Diameter: : 2.5"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : 10' bgs

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
38.5								Silty SAND: fine-grained, dark brown, dry; fine to coarse gray subrounded well graded gravel; 100% recovery (5/35/50/10)
110.9					SM			fine- to medium-grained; 100% recovery
165.4								wood fragments; 85% recovery (5/45/50/0)
71.7					SM			Silty SAND with Gravel: fine- to coarse-grained, olive brown, saturated; fine olive brown subangular gravel; 40% recovery (0/30/50/20)
7.1					ML			Sandy SILT: gray and brown, damp; fine-grained sand; coarse gray rounded gravel; wood fragments; 90% recovery (10/50/35/5)
18.2					ML			Clayey SILT: red brown, damp, plasticity, wood fibers; 90% recovery (40/60/0/0)
								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips

Boring: H5





# BORING LOG H7

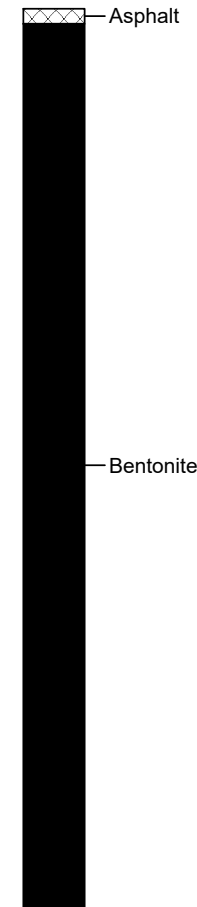
(Page 1 of 1)

Date Drilled: : 08/10/21  
 Drilling Co.: : Holocene Drilling, Inc.  
 Drilling Method: : Push Probe  
 Sampling Method: : M5 liners  
 Borehole Diameter: : 2.5"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : N/A

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
12.4					SM			Silty SAND with Gravel: fine- to medium-grained, olive brown, dry; fine subrounded gravel; wood fragments; 100% recovery (10/30/40/20)
70.0								dark gray, damp; fine to coarse gray gravel; 100% recovery (10/35/45/10)
37.3								Silty SAND: fine- to medium-grained, dark gray, damp; coarse gray subangular gravel; 100% recovery (10/40/45/5)
32.9					SM			no gravel; wood fragments; 80% recovery (10/40/50/0)
16.2								moist; 80% recovery
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: H7





# BORING LOG H9

(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
Boring: H9								
0								Surface soil
0 - 4.5					SM	Silty SAND: fine- to medium-grained, gray, dry; fine gray subrounded gravel; 40% recovery (0/40/50/10)		
4.5 - 10					ML	SILT with Clay: gray, damp; 40% recovery (25/65/10/0)  LNAPL observed in liner; 0% recovery		Bentonite
10								▽
10 - 12.5					SM	Silty SAND: medium- to coarse-grained, red brown, saturated; fine red brown subangular poorly graded gravel; 60% recovery (0/20/70/10)		
12.5 - 15					ML	Clayey SILT: red brown, damp, wood fibers; 65% recovery (40/60/0/0)  80% recovery		
15 - 20						Backfill Materials: Surface completed to match surrounding soil 0.25 50-lb. bag of Bentonite Chips  PID inoperable during completion of this boring		



# BORING LOG I2

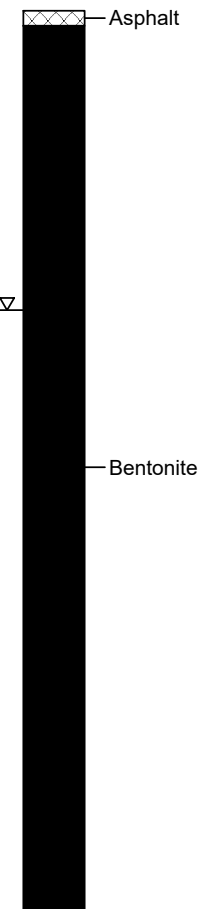
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
23.3			<input checked="" type="checkbox"/>					Silty SAND: fine-grained, dark gray, dry; fine gray subrounded moderately graded gravel; 50% recovery (10/40/45/5)
38.9			<input checked="" type="checkbox"/>		SM		<input checked="" type="checkbox"/>	saturated; fine to coarse subrounded gravel; 15% recovery
19.7			<input checked="" type="checkbox"/>					fine- to medium-grained, dark brown, moist; 30% recovery (10/40/50/0)
21.6			<input checked="" type="checkbox"/>		ML			Clayey SILT: red brown, moist, plasticity; 30% recovery (40/60/0/0)
9.5			<input checked="" type="checkbox"/>		SM			Silty SAND: fine- to coarse-grained, dark gray, wet, wood fragments; fine to coarse gray subrounded gravel; 30% recovery (0/30/65/5)
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: I2





# BORING LOG I4

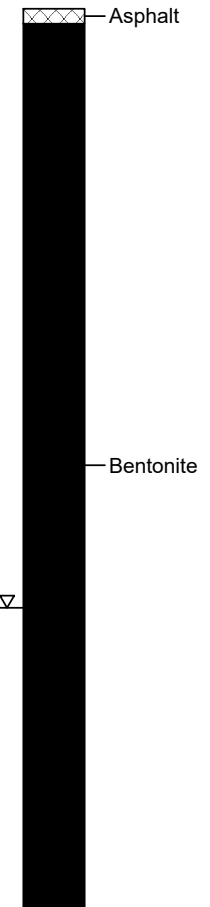
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
22.5					SM			Silty SAND: fine-grained, dark gray, damp; fine to coarse subrounded well graded gravel; 70% recovery (10/35/45/10)
5					ML			SILT with Clay: gray and brown, dry, plasticity; 70% recovery (20/70/10/0)
10					ML			Clayey SILT: gray, dry, plasticity; 100% recovery (30/70/0/0)  wet; 100% recovery  red brown, damp, wood fibers; 100% recovery
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: I4





# BORING LOG I6

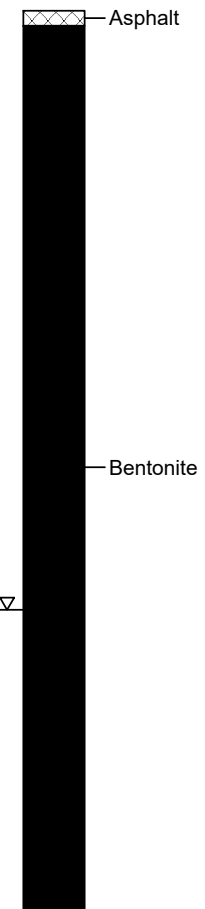
(Page 1 of 1)

Date Drilled: : 08/10/21  
 Drilling Co.: : Holocene Drilling, Inc.  
 Drilling Method: : Push Probe  
 Sampling Method: : M5 liners  
 Borehole Diameter: : 2.5"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : 10' bgs

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
12.3								Silty SAND: fine- to medium-grained, gray, dry; fine gray subrounded gravel; 80% recovery (10/40/45/5)
125.1								dark brown; fine to coarse gray subangular gravel; wood fragments; 50% recovery (5/40/45/10)
23.4					SM			no wood fragments; 80% recovery
25.9								red brown, saturated; red brown gravel; 80% recovery (10/35/45/10)
5.2								dark gray; fine gray gravel; 80% recovery
14.2					ML			Clayey SILT: red brown, damp, plasticity, wood fibers; 60% recovery (40/60/0/0)
								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips

Boring: I6





# BORING LOG I8

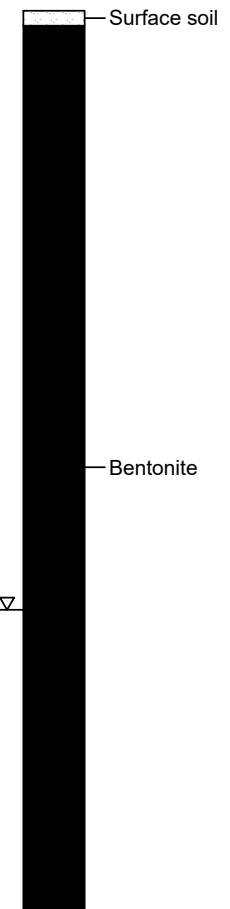
(Page 1 of 1)

Date Drilled: : 08/10/21  
 Drilling Co.: : Holocene Drilling, Inc.  
 Drilling Method: : Push Probe  
 Sampling Method: : M5 liners  
 Borehole Diameter: : 2.5"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : 10' bgs

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : John Considine  
 Reviewed By: : Kerj Chappell, L.G. 2719  
 Signature: : *Kerj Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								Surface soil
413.2			<input checked="" type="checkbox"/>		SM			Silty SAND: fine- to medium-grained, dark gray, dry; 65% recovery (10/40/45/5)
810.9			<input checked="" type="checkbox"/>		ML			Clayey SILT: gray and brown, damp, plasticity; 50% recovery (40/60/0/0)  olive gray, moist, wood fragments; 15% recovery
357.1			<input checked="" type="checkbox"/>		ML			
535.6			<input checked="" type="checkbox"/>		SM			Silty SAND: fine- to medium-grained, red brown, saturated with LNAPL; 100% recovery (10/30/60/0)
352.3			<input checked="" type="checkbox"/>		ML			Clayey SILT: red brown, damp, plasticity, wood fibers; 100% recovery (40/60/0/0)
15								Backfill Materials:  Surface completed to match surrounding soil 0.25 50-lb. bag of Bentonite Chips
20								

Boring: I8





# BORING LOG J3

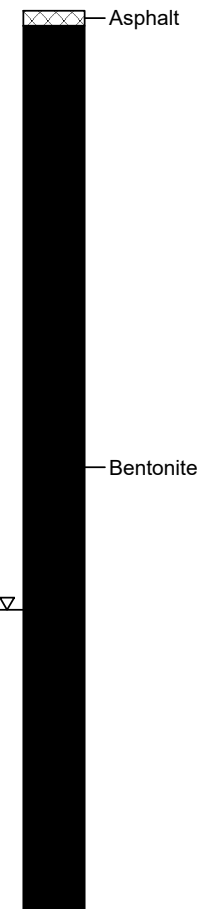
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
21.4					SM			Silty SAND: fine-grained, dark gray, dry; fine gray subrounded gravel; 50% recovery (5/40/50/5)
25.4								SILT with Clay: gray and brown, damp, plasticity; 30% recovery (20/70/10/0)
41.4								30% recovery
17.7					ML			gray, saturated, no plasticity, wood fibers; 100% recovery (30/60/10/0)
11.2								red brown, damp, plasticity; 100% recovery (40/60/0/0)
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: J3







# BORING LOG J5

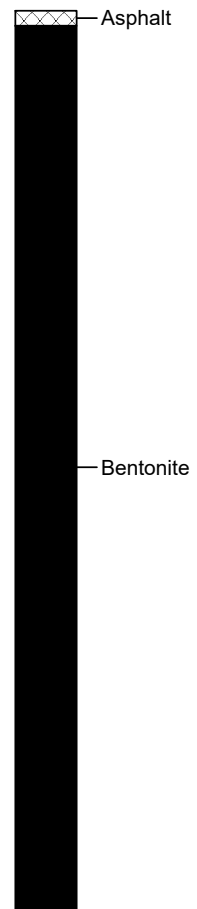
(Page 1 of 1)

Date Drilled: : 08/10/21  
 Drilling Co.: : Holocene Drilling, Inc.  
 Drilling Method: : Push Probe  
 Sampling Method: : M5 liners  
 Borehole Diameter: : 2.5"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : N/A

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0								3" Asphalt
26.6					SM			Silty SAND: fine- to medium-grained, gray, dry; coarse light gray subangular very well graded gravel; 70% recovery (5/40/50/5)
233.2					SM			Silty SAND with Gravel: fine- to medium-grained, brown, dry; fine gray subrounded well graded gravel; 70% recovery (5/35/45/15)
28.3					SM			Silty SAND: medium-grained, gray, dry, wood fragments; 50% recovery (5/20/75/0)
36.5					SM			fine- to medium-grained, dark gray, damp; fine gray subrounded poorly graded gravel; 20% recovery (10/40/45/5)
5.1					ML			Clayey SILT: red brown, damp, plasticity, wood fibers; 10% recovery (40/60/0/0)
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: J5





# BORING LOG J7

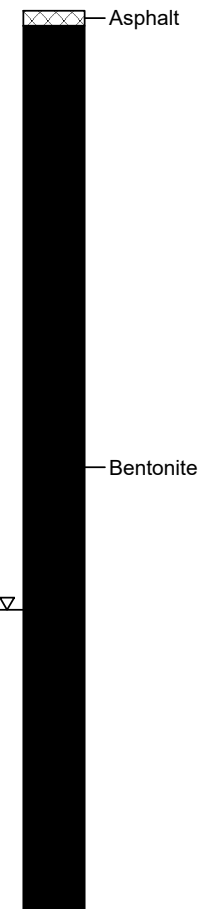
(Page 1 of 1)

Date Drilled: : 08/10/21  
 Drilling Co.: : Holocene Drilling, Inc.  
 Drilling Method: : Push Probe  
 Sampling Method: : M5 liners  
 Borehole Diameter: : 2.5"  
 Casing Diameter: : N/A  
 Latitude : N/A  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : 10' bgs

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
49.8					ML			Sandy SILT: dark gray, dry; fine- to medium-grained sand; fine gray rounded moderately graded gravel; 80% recovery (15/45/35/5)
17.6					SM			Silty SAND with Gravel: fine- to medium-grained, dark gray, dry; fine to coarse dark gray subrounded well graded gravel; 80% recovery (10/35/40/15)
163.2					SM			medium-grained, gray; subangular gravel; wood fragments; 40% recovery (5/30/45/20)
322.9					SM			Silty SAND: medium-grained, red brown, saturated with LNAPL; 15% recovery (5/20/75/0)
266.9					SM			fine- to coarse-grained, olive brown, moist; 15% recovery, (10/35/50/5)
15								Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips
20								

Boring: J7





# BORING LOG J9

(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input checked="" type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								Surface soil
600.1			<input checked="" type="checkbox"/>					Silty SAND: fine-grained, dark gray, dry; coarse gray subangular gravel; 50% recovery (0/45/50/5)
157.7			<input checked="" type="checkbox"/>		SM			saturated, LNAPL observed; fine subrounded gravel; 50% recovery (5/40/45/10)
664.5			<input checked="" type="checkbox"/>					fine- to medium-grained, olive gray, LNAPL observed; 30% recovery (5/45/50/0)
851.2			<input checked="" type="checkbox"/>					medium-grained, olive brown, LNAPL observed; 30% recovery (0/40/60/0)
992.1			<input checked="" type="checkbox"/>		ML			Clayey SILT: red brown, damp, wood fibers; 60% recovery
14.1			<input checked="" type="checkbox"/>		ML			SILT: red brown, dry, wood fibers; 30% recovery (0/90/10/0)
Backfill Materials: Surface completed to match surrounding soil 0.25 50-lb. bag of Bentonite Chips								
20								Bentonite

Boring: J9

▽



# BORING LOG K2

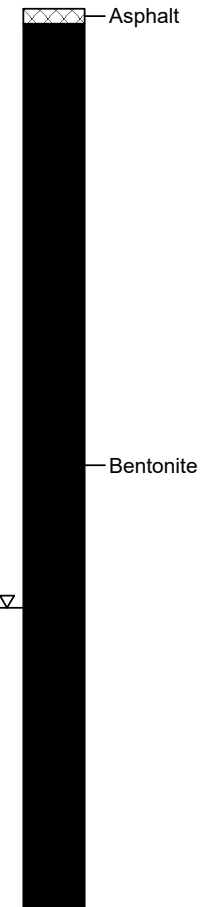
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 3					ML			Sandy SILT: gray, dry; 100% recovery (5/50/40/5)
3 - 5					ML			Clayey SILT: brown, damp, plasticity; 70% recovery (30/60/10/0) moist; 70% recovery (40/60/0/0)
5 - 10					ML			Sandy SILT: dark gray, saturated; medium-grained sand; 70% recovery (10/60/30/0)
10 - 15					ML			Clayey SILT: red brown, damp, plasticity, wood fibers; 70% recovery (30/60/10/0)
15 - 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

Boring: K2





# BORING LOG K4

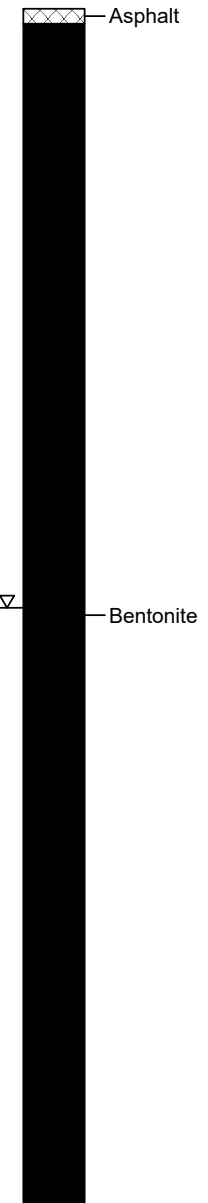
(Page 1 of 1)

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: : 20' bgs  
 First GW Depth: : 10' bgs

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 4								Clayey SILT: gray, dry, plasticity; 90% recovery (40/60/0/0)
4 - 5					ML			gray and brown, damp; 35% recovery
5 - 10								No recovery
10 - 15					ML			Sandy SILT: gray, saturated; 10% recovery (0/70/30/0)
15 - 20					ML			No recovery
15 - 20								Clayey SILT: red brown with black coating, wet, wood fibers; 90% recovery (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

Boring: K4





# BORING LOG K6

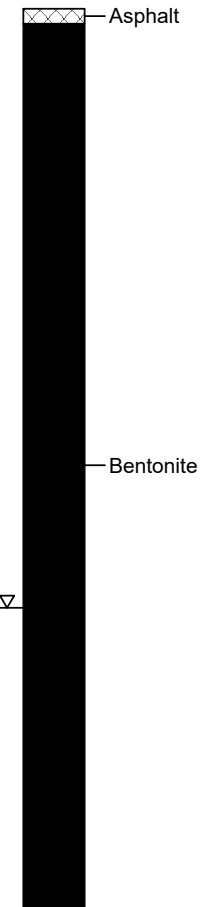
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					SM			Silty SAND with Gravel: fine- to medium-grained, gray, dry; fine to coarse gray subrounded gravel; wood fragments; 75% recovery (0/30/50/20)
5 - 8					ML			Sandy SILT: gray, moist; 100% recovery (10/60/30/0)
8 - 10					ML			Clayey SILT: gray, moist, plasticity; 100% recovery (40/60/0/0)
10 - 13					ML			Sandy SILT: gray, saturated; 40% recovery (5/65/30/0)
13 - 15					SP			SAND: medium-grained, gray, damp; 40% recovery (5/10/85/0)
15 - 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

Boring: K6







# BORING LOG L1

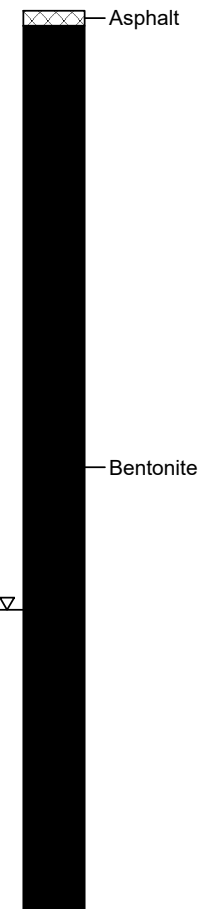
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					ML			Sandy SILT: brown, wet; 25% recovery (10/60/30/0) gray, moist; 55% recovery
5 - 10					ML			Clayey SILT: brown, damp, wood fibers; 55% recovery (40/60/0/0)
10 - 13					SM			Silty SAND: fine- to medium-grained, olive gray, saturated; 100% recovery (10/40/50/0)
13 - 15					ML			Clayey SILT: brown, damp, wood fibers; 100% recovery (30/60/10/0)
15 - 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

Boring: L1







# BORING LOG L3

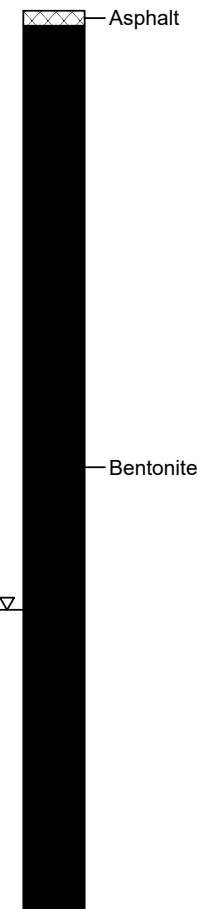
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 4.5					SM			Silty SAND: fine-grained, brown, dry; fine to coarse gray rounded well graded gravel; 100% recovery (5/40/50/5)
4.5 - 7.5					ML			Clayey SILT: gray and brown, damp, wood fragments; 70% recovery (40/60/0/0)
7.5 - 9.5					ML			Sandy SILT with Clay: brown, damp, plasticity; 70% recovery (20/50/30/0)
9.5 - 12.5					ML			Sandy SILT: gray, saturated; 95% recovery (5/60/35/0)
12.5 - 15					ML			Clayey SILT: brown, damp, wood fibers; 95% recovery (40/60/0/0)
15 - 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

Boring: L3







# BORING LOG L7

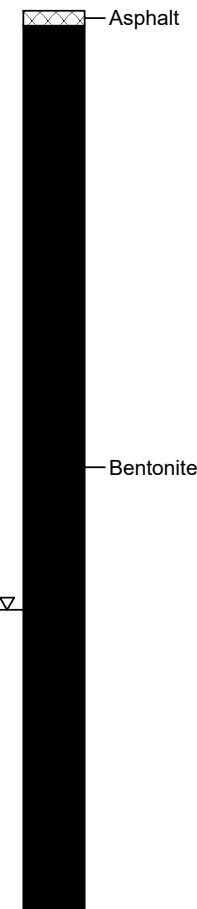
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
~3					ML			Sandy SILT: dark gray, dry; fine gray angular gravel; 100% recovery (5/45/40/10)
~5					ML			Clayey SILT: gray, moist, plasticity; 60% recovery (45/55/0/0)
~8					ML			SILT: black, moist, large wood fragments; 50% recovery (20/80/0/0)
~10					SM			Silty SAND with Gravel: fine- to coarse-grained, black, wet; fine black angular gravel; wood fragments; 75% recovery (5/20/50/25)
~13					ML			Clayey SILT: red brown, damp, plasticity, wood fibers; 75% recovery
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								

Boring: L7







# BORING LOG M2

(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 4					ML			Clayey SILT: gray, dry, plasticity; 50% recovery (40/60/0/0)
4 - 7					SM			Silty SAND: medium- to coarse-grained, olive brown, saturated, moderately graded; 50% recovery (10/30/60/0)
7 - 10					ML			Clayey SILT: dark brown, moist, wood fragments; 50% recovery (35/65/0/0)  brown, wood fibers; 65% recovery (30/60/10/0)
10 - 15					SM			Silty SAND: fine- to medium-grained, dark gray, damp; 65% recovery (5/20/75/0)
15 - 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

Boring: M2

Asphalt

▽

Bentonite



# BORING LOG M4

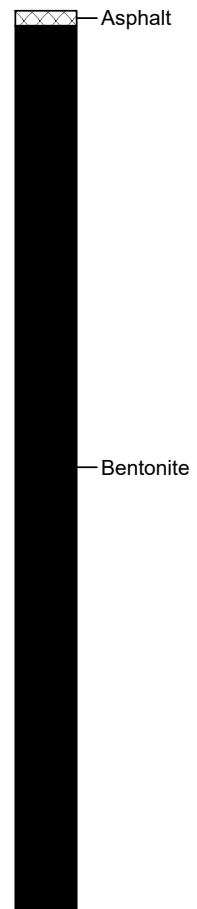
(Page 1 of 1)

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

Project No.: : 031447  
 Site: : ExxonMobil ADC, 2717/2731 Federal Avenue, Everett, WA  
 Logged By: : John Considine  
 Reviewed By: : Kerj Chappell, L.G. 2719  
 Signature: : *Kerj Chappell*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					ML			Sandy SILT with Gravel: brown, dry; fine gray subrounded gravel; 70% recovery (5/40/35/20)
5 - 8					SM			Silty SAND: fine- to medium-grained, gray and brown, dry; 40% recovery (10/40/50/0)
8 - 10					ML			SILT with Clay: red brown, damp, wood fragments; 40% recovery (20/80/0/0)
10 - 12					ML			Clayey SILT: brown, damp, plasticity; 100% recovery (30/60/10/0)
12 - 15					ML			100% recovery (40/60/0/0)
15 - 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

Boring: M4





# BORING LOG M6

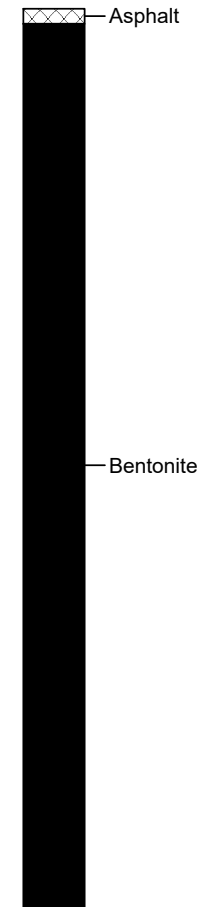
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 4.5					SM			Silty SAND: fine-grained, gray, dry; fine to coarse gray subrounded very well graded gravel; 100% recovery (5/40/45/10)
4.5 - 7.5					ML			SILT with Sand: dark brown, dry, wood fragments; 65% recovery (10/70/20/0)
7.5 - 10					ML			SILT with Clay: dark gray, moist, plasticity, wood fragments; 65% recovery (20/70/10/0)
10 - 12.5					ML			Sandy SILT: dark gray, damp; coarse-grained gray sand; 90% recovery (20/50/30/0)
12.5 - 15					ML			Clayey SILT: red brown, damp, plasticity, wood fibers; 90% recovery (40/60/0/0)
15 - 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

Boring: M6





# BORING LOG M8

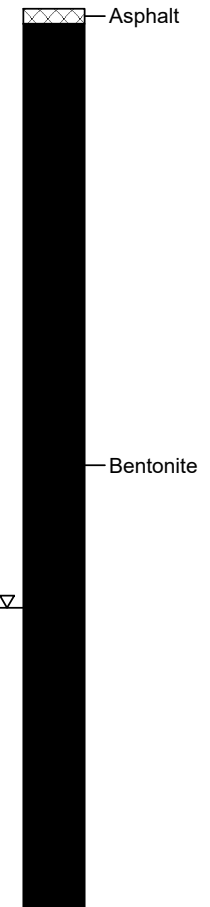
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					ML			Sandy SILT with Clay: gray, damp, plasticity; 80% recovery (20/50/30/0)
5 - 8					ML			Clayey SILT with Gravel: gray, moist, plasticity; fine gray subrounded gravel; 80% recovery (30/50/0/20)
8 - 10								Wood fragments with a black coating; 80% recovery
10 - 13					SM			Silty SAND: fine- to coarse-grained, gray, saturated; fine to coarse gray subrounded gravel; wood fragments; 100% recovery (10/30/50/10)
13 - 15					ML			Clayey SILT: red brown, damp, plasticity; 100% recovery (40/60/0/0)
15 - 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

Boring: M8





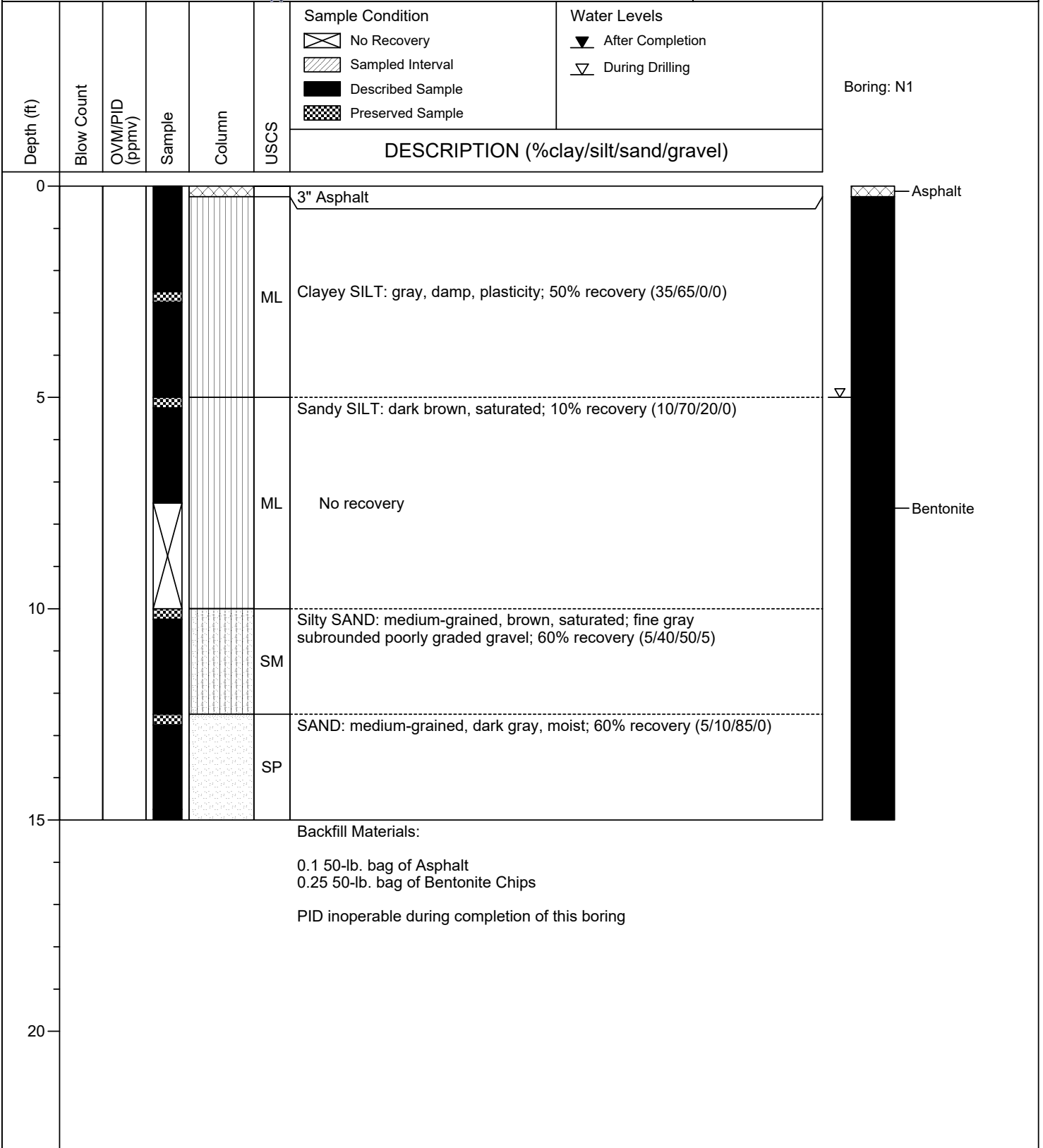


# BORING LOG N1

(Page 1 of 1)

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

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





# BORING LOG N3

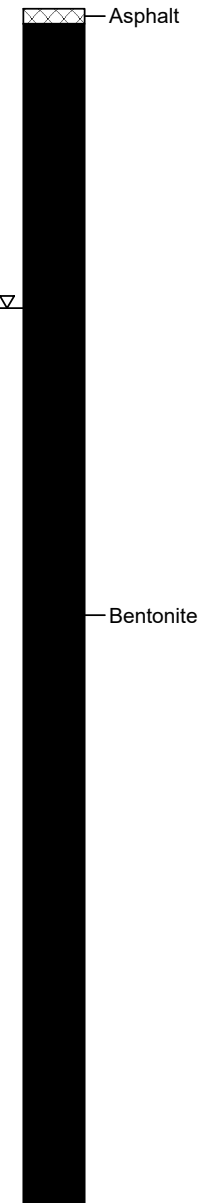
(Page 1 of 1)

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: : 20' bgs  
 First GW Depth: : 5' bgs

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 15					ML			Sandy SILT: gray, dry; 50% recovery (10/60/30/0)  saturated; 100% recovery (10/50/30/10)  moist; 100% recovery (10/60/30/0)
15 - 20					ML			Clayey SILT: gray and brown, moist; 100% recovery (45/55/0/0)
Backfill Materials:						0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips  PID inoperable during completion of this boring		

Boring: N3





# BORING LOG N5

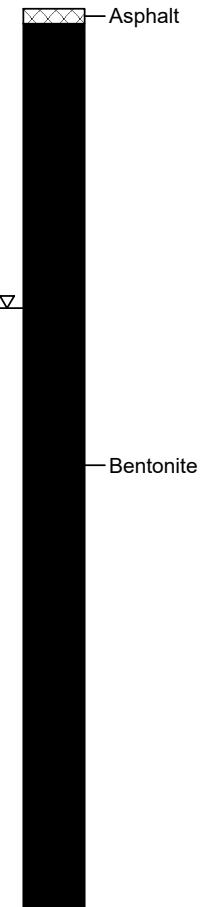
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					SM			Silty SAND: fine-grained, brown, dry, wood fragments; fine gray subangular moderately graded gravel; 80% recovery (5/35/50/10)
5 - 8					ML			Sandy SILT: gray, wet; 70% recovery (10/60/30/0)
8 - 10					ML			Clayey SILT: gray and brown, damp, plasticity; 70% recovery (30/70/0/0)
10 - 13					ML			Sandy SILT with Clay: brown, moist, plasticity; 70% recovery (20/50/30/0)
13 - 15					ML			Clayey SILT: red brown, damp, wood fibers; 70% recovery (40/60/0/0)
15 - 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

Boring: N5









# BORING LOG O4

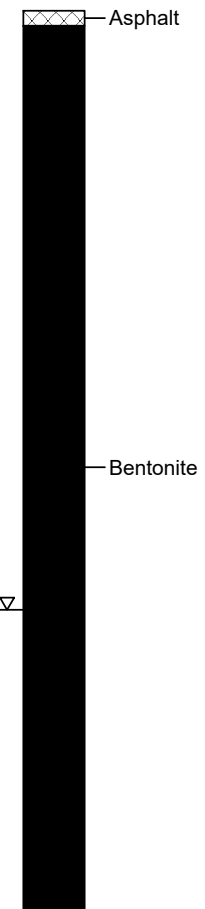
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 10						No recovery		No recovery
10					SM			Silty SAND with Gravel: medium- to coarse-grained, dark brown, damp; fine gray subrounded gravel; 90% recovery (0/20/60/20)
10 - 15					ML			Clayey SILT: red brown, damp, wood fibers; 90% recovery (40/60/0/0)
15 - 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

Boring: O4







# BORING LOG O8

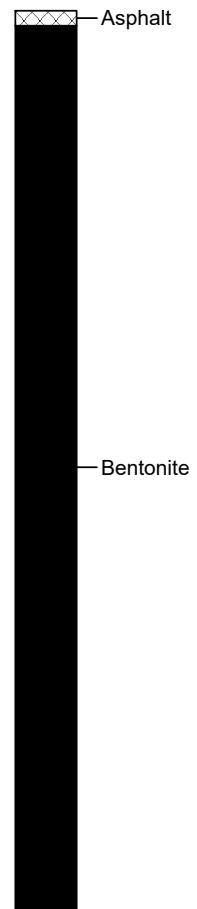
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					SM			Silty SAND: fine-grained, gray, dry; 40% recovery (5/45/50/0)
5 - 10					ML			Sandy SILT: black, damp, wood fragments; 15% recovery (5/55/40/0)  No recovery
10 - 13					ML			Clayey Sandy SILT: red black, damp, wood fibers; 60% recovery (30/40/30/0)
13 - 15					ML			Clayey SILT: red brown, damp, wood fibers; 60% recovery (40/60/0/0)
15 - 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

Boring: O8







# BORING LOG P1

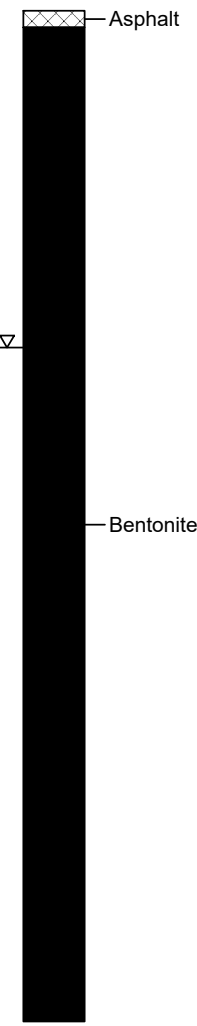
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					SM			Silty SAND: fine- to medium-grained, gray, dry; fine to coarse gray subangular well graded gravel; wood fragments; 30% recovery (5/40/45/10)
5					ML		▽	Clayey SILT: brown, wet, plasticity; 90% recovery (40/60/0/0)
5 - 10					SM			Silty SAND: fine- to medium-grained, brown, damp, wood fragments; 90% recovery (10/45/45/0)
10					ML			Clayey SILT: brown, damp, plasticity, wood fibers; 100% recovery (40/60/0/0)
10 - 15					ML			red brown
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								

Boring: P1





# BORING LOG P3

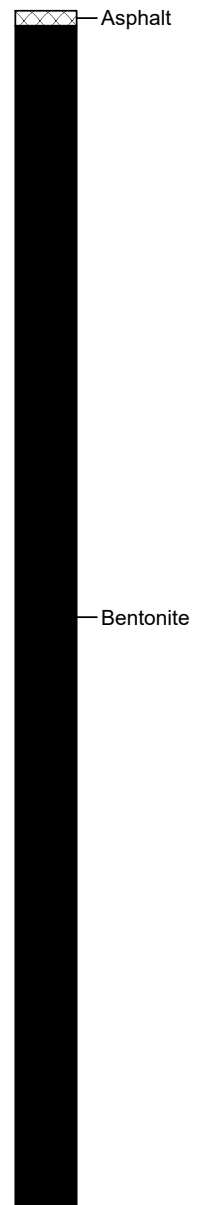
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 15					SM			Silty SAND: fine-grained, black, damp; fine gray subrounded gravel; wood; 50% recovery (5/40/50/5)
5						No recovery		
10						No recovery		
15					ML			Clayey SILT: red brown, dry, plasticity, wood fibers; 50% recovery (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

Boring: P3





# BORING LOG P5

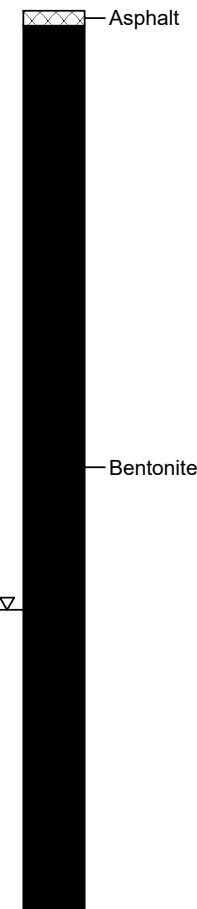
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					SM			Silty SAND with Gravel: fine-grained, brown, dry; fine gray subrounded gravel; 40% recovery (5/35/45/15)
5 - 8					ML			Clayey SILT: brown, wet; 20% recovery (30/70/0/0)
8 - 10					SM			Silty SAND: fine- to medium-grained sand, brown, dry; 20% recovery (10/45/45/0)
10 - 13					SM			Silty SAND with Gravel: fine- to medium-grained, olive brown, saturated; fine to coarse gray subrounded gravel; 100% recovery (0/30/50/20)
13 - 15					ML			Clayey SILT: brown, damp, plasticity; 100% recovery (40/60/0/0)
15 - 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

Boring: P5





# BORING LOG P7

(Page 1 of 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  
 Longitude : N/A  
 Total Depth: : 15' bgs  
 First GW Depth: : 5' bgs

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 4.5					SM			Silty SAND: fine- to medium-grained, gray, damp; fine to coarse gray subangular gravel; 50% recovery (5/40/50/5)
4.5 - 7.5					ML		▽	Clayey SILT: brown, wet, plasticity; 20% recovery (30/70/0/0)
7.5 - 9.5					SM			Silty SAND with Gravel: medium-grained, black, wet; coarse black subangular very well graded gravel; 20% recovery (5/25/50/20)
9.5 - 12.5					ML			Clayey SILT: red brown, damp, wood fibers; 60% recovery (40/55/5/0)
12.5 - 15					ML			wood fragments; 50% recovery (40/60/0/0)
15 - 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

Boring: P7

Asphalt

▽

Bentonite



# BORING LOG Q2

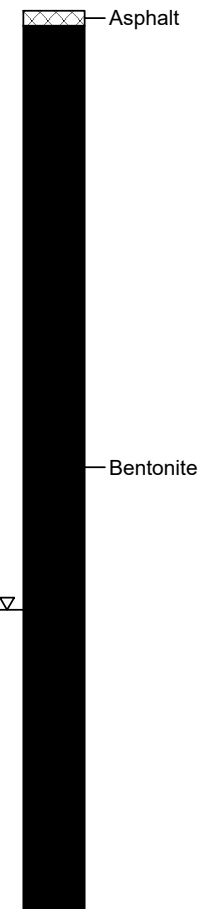
(Page 1 of 1)

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

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 3					ML			Clayey SILT: gray and brown, dry, plasticity; 50% recovery (30/70/0/0)
3 - 5					ML			SILT: brown, moist, plasticity; 20% recovery (25/70/5/0)
5 - 8					ML			Clayey SILT: brown, moist, plasticity; 20% recovery (30/70/0/0)
8 - 10					ML			Sandy SILT: gray, wet; 20% recovery (10/50/40/0)
10 - 15					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

Boring: Q2







# BORING LOG Q6

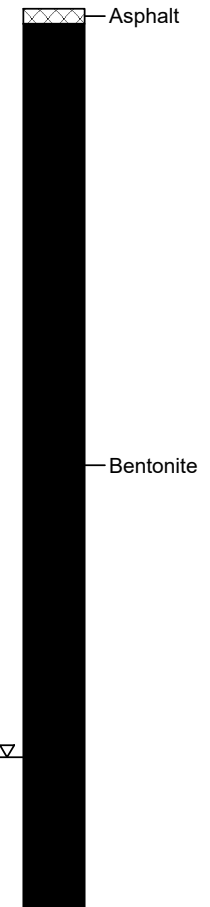
(Page 1 of 1)

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: : 12.5' bgs

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 4.5					SM			Silty SAND with Gravel: fine-grained, black, dry; fine gray subrounded gravel; wood fragments; 100% recovery (0/40/45/15)
4.5 - 9.5					SM			Silty SAND: fine- to medium-grained, gray, dry; 100% recovery (10/30/60/0)  fine-grained, moist; 100% recovery (10/40/50/0)
9.5 - 12.5					ML			Clayey SILT: gray and brown, moist (40/60/0/0)
12.5 - 15					SM			Silty SAND: fine-grained, gray, wet (5/40/55/0)
15 - 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

Boring: Q6





# BORING LOG R1

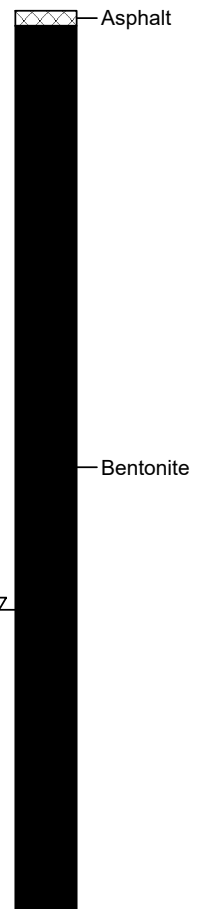
(Page 1 of 1)

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: : 10' bgs

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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					SM			Silty SAND: fine- to medium-grained, dark gray, dry; 30% recovery (10/40/50/0)
5 - 8					ML			Sandy SILT: gray, dry; fine-grained sand; 30% recovery (10/60/30/0)
8 - 10					SM			Silty SAND: medium-grained, dark gray, dry; 15% recovery (10/30/60/0)  fine- to medium-grained, gray, moist; 50% recovery (10/40/50/0)
10 - 15					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  PID inoperable during completion of this boring
20								

Boring: R1







# BORING LOG R3

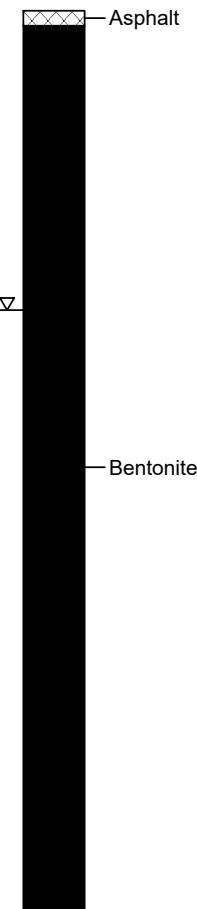
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 15					SM		<input type="checkbox"/> During Drilling	Silty SAND: fine-grained, brown, damp; fine gray subrounded gravel; 75% recovery (5/40/50/5)  gray, wet; no gravel; 60% recovery (5/45/50/0)  75% recovery  fine- to medium-grained, moist; 90% recovery (5/40/55/0)
15					ML			Clayey SILT: red brown, dry, plasticity, wood fibers; 95% recovery (40/60/0/0)
15 - 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

Boring: R3





# BORING LOG R5

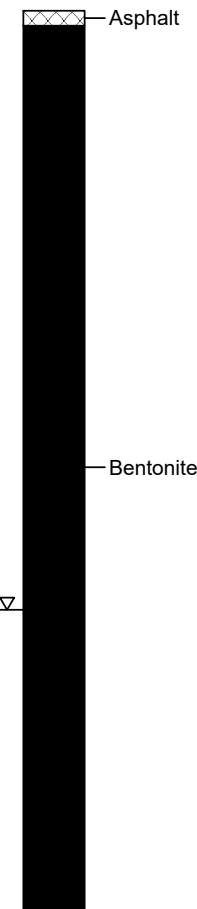
(Page 1 of 1)

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: : 10' bgs

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 5					SM			Silty SAND: fine-grained, brown, dry; coarse gray subrounded gravel; 50% recovery (5/30/55/10)
5 - 8								LNAPL observed in liner, no recovery from 5' to 8' bgs
8 - 10								fine- to medium-grained, gray, saturated; 80% recovery (0/40/60/0)
10 - 15					ML			Sandy SILT with Clay: red brown, dry, wood fibers; fine-grained gray sand; 75% recovery (20/50/30/0)
15 - 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

Boring: R5





# BORING LOG S2

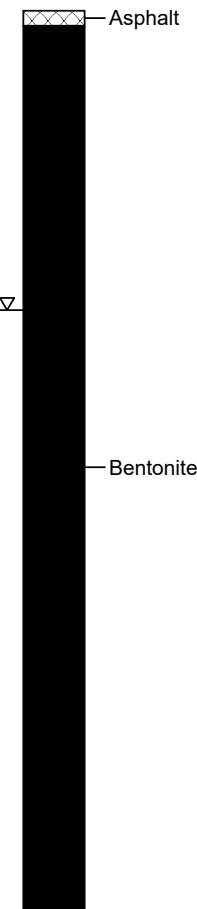
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 12.5					SM			Silty SAND: fine-grained, brown, dry; fine gray rounded gravel; 50% recovery (5/30/60/5)  gray, wet; 100% recovery (10/45/45/0)  moist; 100% recovery (10/40/50/0)  wet; 100% recovery
12.5 - 15					ML			Clayey SILT: brown, dry, wood fibers; 100% recovery (40/60/0/0)
15 - 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

Boring: S2





# BORING LOG S4

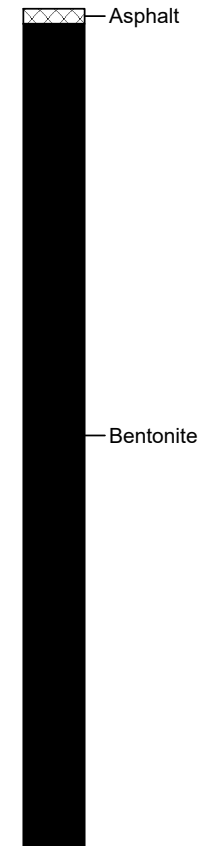
(Page 1 of 1)

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: : 14' bgs  
 First GW Depth: : N/A

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 4.5					ML			Clayey SILT: brown, damp, plasticity; 60% recovery (40/60/0/0)
4.5 - 7.5								gray, moist; 100% recovery (30/60/10/0)
7.5 - 12.5					SM			Silty SAND: fine-grained, gray, moist; 100% recovery (20/30/50/0)
12.5 - 14					ML			Clayey SILT: red brown, dry, wood fibers; 100% recovery (40/60/0/0)
14 - 15								Refusal at 14' bgs
15 - 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

Boring: S4





# BORING LOG T1

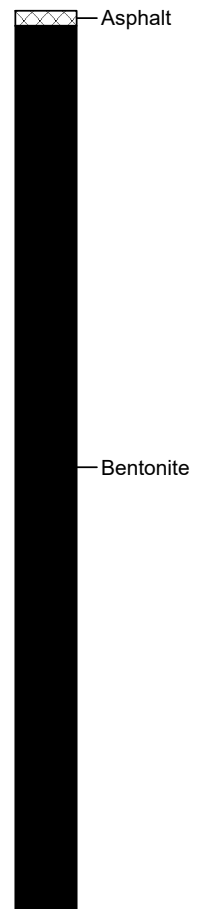
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 1.5								Clayey SILT: brown, dry, plasticity; 30% recovery (40/60/0/0)
1.5 - 3.5								gray, moist; 40% recovery (30/70/0/0)
3.5 - 5.5					ML			40% recovery
5.5 - 7.5								gray and brown, no plasticity, wood fibers; 65% recovery
7.5 - 12.5								red brown, damp; 65% recovery (40/60/0/0)
12.5 - 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

Boring: T1





# BORING LOG T3

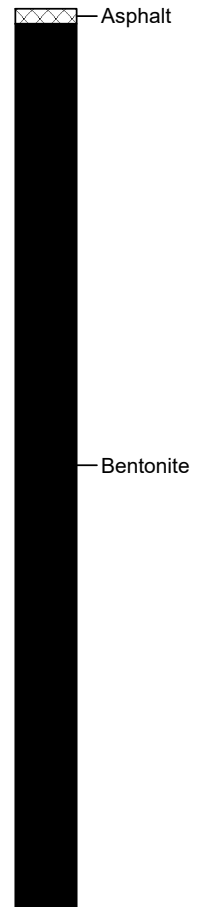
(Page 1 of 1)

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

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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						<input type="checkbox"/> No Recovery <input type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input type="checkbox"/> Preserved Sample	<input type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
0								3" Asphalt
0 - 10					ML			Clayey SILT: gray and brown, damp, plasticity; 70% recovery (30/70/0/0) moist; 75% recovery gray, dry; 75% recovery
10 - 12.5					SM			Silty SAND: fine- to medium-grained, dark gray, damp; 40% recovery (5/40/55/0)
12.5 - 15					ML			Clayey SILT: red brown, damp, plasticity, wood fibers; 65% recovery (40/60/0/0)
15 - 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

Boring: T3



# **APPENDIX D**

## **Laboratory Analytical Results**



## 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

*Cecile de Guia*

---

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

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
 Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66942-1

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	08/09/21 09:55	08/12/21 10:15
570-66942-6	S-7.5-C4	Solid	08/09/21 10:00	08/12/21 10:15
570-66942-7	S-10-C4	Solid	08/09/21 10:05	08/12/21 10:15
570-66942-8	S-12.5-C4	Solid	08/09/21 10:10	08/12/21 10:15
570-66942-9	S-2.5-C6	Solid	08/09/21 10:40	08/12/21 10:15
570-66942-10	S-5-C6	Solid	08/09/21 11:00	08/12/21 10:15
570-66942-11	S-7.5-C6	Solid	08/09/21 10:50	08/12/21 10:15
570-66942-12	S-10-C6	Solid	08/09/21 11:05	08/12/21 10:15
570-66942-13	S-2.5-C8	Solid	08/09/21 11:35	08/12/21 10:15
570-66942-14	S-5-C8	Solid	08/09/21 11:40	08/12/21 10:15
570-66942-15	S-7.5-C8	Solid	08/09/21 11:45	08/12/21 10:15
570-66942-16	S-10-C8	Solid	08/09/21 11:50	08/12/21 10:15
570-66942-17	S-12.5-C8	Solid	08/09/21 11:55	08/12/21 10:15
570-66942-18	S-2.5-D9	Solid	08/09/21 12:00	08/12/21 10:15
570-66942-19	S-5-D9	Solid	08/09/21 12:05	08/12/21 10:15
570-66942-20	S-7.5-D9	Solid	08/09/21 12:10	08/12/21 10:15
570-66942-21	S-10-D9	Solid	08/09/21 12:15	08/12/21 10:15
570-66942-22	S-12.5-D9	Solid	08/09/21 12:20	08/12/21 10:15
570-66942-23	S-2.5-E8	Solid	08/09/21 12:25	08/12/21 10:15
570-66942-24	S-5-E8	Solid	08/09/21 12:30	08/12/21 10:15
570-66942-25	S-7.5-E8	Solid	08/09/21 12:35	08/12/21 10:15
570-66942-26	S-10-E8	Solid	08/09/21 12:40	08/12/21 10:15
570-66942-27	S-12.5-E8	Solid	08/09/21 12:45	08/12/21 10:15
570-66942-28	S-2.5-D7	Solid	08/09/21 12:50	08/12/21 10:15
570-66942-29	S-5-D7	Solid	08/09/21 12:55	08/12/21 10:15
570-66942-30	S-7.5-D7	Solid	08/09/21 13:00	08/12/21 10:15
570-66942-31	S-10-D7	Solid	08/09/21 13:05	08/12/21 10:15
570-66942-32	S-12.5-D7	Solid	08/09/21 13:10	08/12/21 10:15
570-66942-33	S-2.5-E6	Solid	08/09/21 13:45	08/12/21 10:15
570-66942-34	S-5-E6	Solid	08/09/21 13:50	08/12/21 10:15
570-66942-35	S-7.5-E6	Solid	08/09/21 13:55	08/12/21 10:15
570-66942-36	S-10-E6	Solid	08/09/21 14:00	08/12/21 10:15
570-66942-37	S-12.5-E6	Solid	08/09/21 14:05	08/12/21 10:15
570-66942-38	S-2.5-D5	Solid	08/09/21 14:10	08/12/21 10:15
570-66942-39	S-5-D5	Solid	08/09/21 14:15	08/12/21 10:15
570-66942-40	S-7.5-D5	Solid	08/09/21 14:20	08/12/21 10:15
570-66942-41	S-10-D5	Solid	08/09/21 14:25	08/12/21 10:15
570-66942-42	S-12.5-D5	Solid	08/09/21 14:30	08/12/21 10:15
570-66942-43	S-2.5-E4	Solid	08/09/21 14:35	08/12/21 10:15
570-66942-44	S-5-E4	Solid	08/09/21 14:40	08/12/21 10:15
570-66942-45	S-7.5-E4	Solid	08/09/21 14:45	08/12/21 10:15
570-66942-46	S-10-E4	Solid	08/09/21 14:50	08/12/21 10:15
570-66942-47	S-12.5-E4	Solid	08/09/21 14:55	08/12/21 10:15
570-66942-48	S-2.5-D3	Solid	08/09/21 15:00	08/12/21 10:15
570-66942-49	S-5-D3	Solid	08/09/21 15:05	08/12/21 10:15
570-66942-50	S-7.5-D3	Solid	08/09/21 15:10	08/12/21 10:15
570-66942-51	S-10-D3	Solid	08/09/21 15:15	08/12/21 10:15
570-66942-52	S-12.5-D3	Solid	08/09/21 15:20	08/12/21 10:15
570-66942-53	S-2.5-E2	Solid	08/09/21 15:25	08/12/21 10:15
570-66942-54	S-5-E2	Solid	08/09/21 15:30	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	08/10/21 08:10	08/12/21 10:15
570-66942-70	S-10-F3	Solid	08/10/21 08:15	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	08/10/21 08:35	08/12/21 10:15
570-66942-75	S-10-G4	Solid	08/10/21 08:40	08/12/21 10:15
570-66942-76	S-12.5-G4	Solid	08/10/21 08:05	08/12/21 10:15
570-66942-77	S-2.5-F5	Solid	08/10/21 09:15	08/12/21 10:15
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	08/10/21 09:30	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	08/10/21 09:45	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	08/12/21 10:15
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	08/10/21 10:05	08/12/21 10:15
570-66942-88	S-5-F7	Solid	08/10/21 10:10	08/12/21 10:15
570-66942-89	S-7.5-F7	Solid	08/10/21 10:15	08/12/21 10:15
570-66942-90	S-10-F7	Solid	08/10/21 10:20	08/12/21 10:15
570-66942-91	S-12.5-F7	Solid	08/10/21 10:25	08/12/21 10:15
570-66942-92	S-2.5-G8	Solid	08/10/21 10:35	08/12/21 10:15
570-66942-93	S-5-G8	Solid	08/10/21 10:40	08/12/21 10:15
570-66942-94	S-7.5-G8	Solid	08/10/21 10:45	08/12/21 10:15
570-66942-95	S-10-G8	Solid	08/10/21 10:50	08/12/21 10:15
570-66942-96	S-12.5-G8	Solid	08/10/21 10:55	08/12/21 10:15
570-66942-97	S-2.5-F9	Solid	08/10/21 11:15	08/12/21 10:15
570-66942-98	S-5-F9	Solid	08/10/21 11:20	08/12/21 10:15
570-66942-99	S-7.5-F9	Solid	08/10/21 11:25	08/12/21 10:15
570-66942-100	S-10-F9	Solid	08/10/21 11:30	08/12/21 10:15
570-66942-101	S-12.5-F9	Solid	08/10/21 11:35	08/12/21 10:15
570-66942-102	S-2.5-F9 DUP	Solid	08/10/21 11:15	08/12/21 10:15
570-66942-103	S-2.5-I8	Solid	08/10/21 11:45	08/12/21 10:15
570-66942-104	S-5-I8	Solid	08/10/21 11:50	08/12/21 10:15
570-66942-105	S-7.5-I8	Solid	08/10/21 11:55	08/12/21 10:15
570-66942-106	S-10-I8	Solid	08/10/21 12:00	08/12/21 10:15
570-66942-107	S-12.5-I8	Solid	08/10/21 12:05	08/12/21 10:15
570-66942-108	S-2.5-H7	Solid	08/10/21 12:10	08/12/21 10:15
570-66942-109	S-5-H7	Solid	08/10/21 12:15	08/12/21 10:15
570-66942-110	S-7.5-H7	Solid	08/10/21 12:20	08/12/21 10:15
570-66942-111	S-10-H7	Solid	08/10/21 12:25	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
570-66942-112	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
570-66942-141	S-7.5-H7 DUP	Solid	08/10/21 12:20	08/12/21 10:15

# Definitions/Glossary

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

Job ID: 570-66942-1

## Qualifiers

### GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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.
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 or may not be present in this report.
α	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

# 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.

#### 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 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.



# Detection Summary

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

Job ID: 570-66942-1

## 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	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	27		6.8	mg/Kg	1	✳	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	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	85		37	mg/Kg	250	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	98		6.8	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
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	D	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	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	240		8.2	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-C4

## Lab Sample ID: 570-66942-8

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-C6

## Lab Sample ID: 570-66942-9

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 Cleanup
TPH as Motor Oil Range	1300		29	mg/Kg	5	☼	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-C6

## Lab Sample ID: 570-66942-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.21		0.12	mg/Kg	1	☼	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	290		26	mg/Kg	5	☼	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	1100		26	mg/Kg	5	☼	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-C6

## Lab Sample ID: 570-66942-11

Analyte	Result	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 Cleanup
TPH as Motor Oil Range	1300		12	mg/Kg	2	☼	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-C6

## Lab Sample ID: 570-66942-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	29		1.7	mg/Kg	1	☼	NWTPH-Gx	Total/NA
TPH as Diesel Range	1200		25	mg/Kg	1	☼	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	520		25	mg/Kg	1	☼	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-C8

## Lab Sample ID: 570-66942-13

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

## Client Sample ID: S-5-C8

## Lab Sample ID: 570-66942-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.50		0.34	mg/Kg	1	☼	NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-C8

## Lab Sample ID: 570-66942-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2.6		0.22	mg/Kg	1	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	53		6.0	mg/Kg	1	✘	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

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.32		0.21	mg/Kg	1	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	290		5.6	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	120		5.6	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-D9

## Lab Sample ID: 570-66942-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.3		0.23	mg/Kg	1	✘	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

## Client Sample ID: S-7.5-D9

## Lab Sample ID: 570-66942-20

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 Cleanup
TPH as Motor Oil Range	5900		340	mg/Kg	50	✘	NWTPH-Dx	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-10-D9 (Continued)

## Lab Sample ID: 570-66942-21

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 Sample ID: 570-66942-22

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 Cleanup
TPH as Motor Oil Range	190		18	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-E8

## Lab Sample ID: 570-66942-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.38		0.12	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	390		5.3	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	130		5.3	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-E8

## Lab Sample ID: 570-66942-24

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	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	890		34	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-E8

## Lab Sample ID: 570-66942-25

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 Cleanup
TPH as Motor Oil Range - DL	3200		330	mg/Kg	50	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-E8

## Lab Sample ID: 570-66942-26

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
TPH as Diesel Range - DL	28000		500	mg/Kg	50	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	7900		500	mg/Kg	50	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-E8

## Lab Sample ID: 570-66942-27

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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-D7

## Lab Sample ID: 570-66942-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	63		14	mg/Kg	100	✘	NWTPH-Gx	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 Sample ID: 570-66942-29

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-D7

## Lab Sample ID: 570-66942-30

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

## Lab Sample ID: 570-66942-31

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-D7

## Lab Sample ID: 570-66942-32

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	13		1.8	mg/Kg	1	✘	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 Cleanup

## Client Sample ID: S-2.5-E6

## Lab Sample ID: 570-66942-33

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	15000		67	mg/Kg	10	✘	NWTPH-Dx	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 Sample ID: 570-66942-34

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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-5-E6 (Continued)

Lab Sample ID: 570-66942-34

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range - DL	8700		740	mg/Kg	100	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-E6

Lab Sample ID: 570-66942-35

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 Cleanup
TPH as Motor Oil Range	380		13	mg/Kg	2	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-E6

Lab Sample ID: 570-66942-36

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 Sample ID: 570-66942-37

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-D5

Lab Sample ID: 570-66942-38

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	370		68	mg/Kg	250	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	1600		6.9	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	580		6.9	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-D5

Lab Sample ID: 570-66942-39

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	470		83	mg/Kg	250	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	18000		76	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	4600		76	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-D5

Lab Sample ID: 570-66942-40

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	81		30	mg/Kg	20	✳	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 Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-10-D5

## Lab Sample ID: 570-66942-41

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 Cleanup
TPH as Motor Oil Range	2400		170	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-D5

## Lab Sample ID: 570-66942-42

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2.1		0.25	mg/Kg	1	✳	NWTPH-Gx	Total/NA

## Client Sample ID: S-2.5-E4

## Lab Sample ID: 570-66942-43

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	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 Cleanup
TPH as Motor Oil Range	1300		68	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-E4

## Lab Sample ID: 570-66942-44

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	25		18	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	1500		61	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	320		61	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-E4

## Lab Sample ID: 570-66942-45

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	22		5.6	mg/Kg	20	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	13		6.9	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-E4

## Lab Sample ID: 570-66942-46

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	38		9.2	mg/Kg	20	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	320		7.0	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	96		7.0	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-E4

## Lab Sample ID: 570-66942-47

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.48		0.26	mg/Kg	1	✳	NWTPH-Gx	Total/NA

## Client Sample ID: S-2.5-D3

## Lab Sample ID: 570-66942-48

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	260		23	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	4100		59	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-D3 (Continued)

Lab Sample ID: 570-66942-48

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

## Client Sample ID: S-5-D3

Lab Sample ID: 570-66942-49

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

## Client Sample ID: S-7.5-D3

Lab Sample ID: 570-66942-50

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	68		27	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	560		66	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2200		66	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-D3

Lab Sample ID: 570-66942-51

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	86		24	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	390		65	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	110		65	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-D3

Lab Sample ID: 570-66942-52

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.38		0.26	mg/Kg	1	✳	NWTPH-Gx	Total/NA

## Client Sample ID: S-2.5-E2

Lab Sample ID: 570-66942-53

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

Lab Sample ID: 570-66942-54

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	280		35	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	1000		63	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	200		63	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-E2

Lab Sample ID: 570-66942-55

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	280		26	mg/Kg	100	✳	NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-E2 (Continued)

## Lab Sample ID: 570-66942-55

Analyte	Result	Qualifier	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

## Client Sample ID: S-10-E2

## Lab Sample ID: 570-66942-56

Analyte	Result	Qualifier	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

## Client Sample ID: S-12.5-E2

## Lab Sample ID: 570-66942-57

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.36		0.34	mg/Kg	1	✳	NWTPH-Gx	Total/NA

## Client Sample ID: S-2.5-D1

## Lab Sample ID: 570-66942-58

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	190		23	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	390		13	mg/Kg	2	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	440		13	mg/Kg	2	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-D1

## Lab Sample ID: 570-66942-59

Analyte	Result	Qualifier	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 Cleanup
TPH as Motor Oil Range	94		57	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-D1

## Lab Sample ID: 570-66942-60

Analyte	Result	Qualifier	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

## Client Sample ID: S-10-D1

## Lab Sample ID: 570-66942-61

Analyte	Result	Qualifier	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
TPH as Motor Oil Range	220		14	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-D1

## Lab Sample ID: 570-66942-62

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-G2

## Lab Sample ID: 570-66942-63

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 Cleanup
TPH as Motor Oil Range	1100		12	mg/Kg	2	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-G2

## Lab Sample ID: 570-66942-64

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	50		25	mg/Kg	100	✘	NWTPH-Gx	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-G2

## Lab Sample ID: 570-66942-66

Analyte	Result	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 Cleanup
TPH as Motor Oil Range	120		5.7	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-G2

## Lab Sample ID: 570-66942-67

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-F3

## Lab Sample ID: 570-66942-68

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 Cleanup
TPH as Motor Oil Range	2500		61	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-F3

## Lab Sample ID: 570-66942-69

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	360		22	mg/Kg	100	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	1400		5.8	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	560		5.8	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-10-F3

## Lab Sample ID: 570-66942-70

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	19		6.2	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-F3

## Lab Sample ID: 570-66942-71

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-G4

## Lab Sample ID: 570-66942-72

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	110		22	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	2800		57	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	1400		57	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-G4

## Lab Sample ID: 570-66942-73

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-G4

## Lab Sample ID: 570-66942-74

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-G4

## Lab Sample ID: 570-66942-75

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	96		21	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	68		5.7	mg/Kg	1	✳	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 Sample ID: 570-66942-76

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-F5

## Lab Sample ID: 570-66942-77

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	500		6.7	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-F5 (Continued)

## Lab Sample ID: 570-66942-77

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 Sample ID: 570-66942-78

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-F5

## Lab Sample ID: 570-66942-79

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-F5

## Lab Sample ID: 570-66942-80

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 Sample ID: 570-66942-81

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.8		0.93	mg/Kg	1	☼	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-G6

## Lab Sample ID: 570-66942-82

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 Sample ID: 570-66942-83

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 Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## 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	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	D	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	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	120		6.9	mg/Kg	1	✘	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	Qualifier	RL	Unit	Dil Fac	D	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 Cleanup
TPH as Motor Oil Range - DL2	15000		320	mg/Kg	50	✘	NWTPH-Dx	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-10-F7 (Continued)

## Lab Sample ID: 570-66942-90

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: 570-66942-91

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	12		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: 570-66942-92

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 Cleanup
TPH as Motor Oil Range	27		5.9	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-G8

## Lab Sample ID: 570-66942-93

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: 570-66942-94

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1400		120	mg/Kg	500	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	5000		33	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	960		33	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-G8

## Lab Sample ID: 570-66942-95

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 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: 570-66942-96

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2400		130	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	12000		95	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2900		95	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-F9

## Lab Sample ID: 570-66942-97

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	28		4.2	mg/Kg	20	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	140		5.5	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	7.9		5.5	mg/Kg	1	☒	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	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	1	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	270		23	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	210		23	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-F9 DUP

## Lab Sample ID: 570-66942-102

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	27		4.2	mg/Kg	20	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	120		5.6	mg/Kg	1	☒	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	☒	NWTPH-Gx	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## 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)	2100		130	mg/Kg	500	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	8300		30	mg/Kg	5	✘	NWTPH-Dx	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	mg/Kg	100	✘	NWTPH-Gx	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	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-I8

## Lab Sample ID: 570-66942-106

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 Cleanup
TPH as Motor Oil Range	3900		150	mg/Kg	25	✘	NWTPH-Dx	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.

Eurofins Calscience LLC



# Detection Summary

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

Job ID: 570-66942-1

## 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	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-H7

## Lab Sample ID: 570-66942-111

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	130		30	mg/Kg	100	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	770		6.8	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	360		6.8	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-H7

## Lab Sample ID: 570-66942-112

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	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 Cleanup
TPH as Motor Oil Range	320		7.2	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-I6

## Lab Sample ID: 570-66942-117

Analyte	Result	Qualifier	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

## Client Sample ID: S-7.5-J7

## Lab Sample ID: 570-66942-120

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 Cleanup
TPH as Motor Oil Range	1400		86	mg/Kg	10	✳	NWTPH-Dx	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	1	✳	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-J5

## Lab Sample ID: 570-66942-124

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	390		23	mg/Kg	100	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	7800		28	mg/Kg	5	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2800		28	mg/Kg	5	✘	NWTPH-Dx	Silica Gel Cleanup

## 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	D	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 Cleanup
TPH as Motor Oil Range	12		6.8	mg/Kg	1	✘	NWTPH-Dx	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 Cleanup
TPH as Motor Oil Range	780		13	mg/Kg	2	✘	NWTPH-Dx	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-5-H5 (Continued)

## Lab Sample ID: 570-66942-130

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	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	140		13	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	1300		29	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	410		29	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## 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

## Lab Sample ID: 570-66942-134

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	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 Cleanup
TPH as Motor Oil Range	1400		33	mg/Kg	5	✳	NWTPH-Dx	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 Cleanup
TPH as Motor Oil Range	34		7.1	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-66942-1

## Client Sample ID: S-10-D1 DUP

Lab Sample ID: 570-66942-137

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	190		69	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	170		10	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	72		10	mg/Kg	1	✳	NWTPH-Dx	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	Qualifier	RL	Unit	Dil Fac	D	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.

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-5-C2

Lab Sample ID: 570-66942-1

Date Collected: 08/09/21 09:35

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)	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

### 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		29	mg/Kg	☼	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

Lab Sample ID: 570-66942-2

Date Collected: 08/09/21 09:40

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		1.3	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 - Northwest - Semi-Volatile Petroleum Products (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

Lab Sample ID: 570-66942-3

Date Collected: 08/09/21 09:45

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)	1.3		0.15	mg/Kg	☼	08/16/21 13:38	08/17/21 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62		50 - 150	08/16/21 13:38	08/17/21 17:25	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	27		6.8	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		50 - 150	08/20/21 16:19	08/24/21 16:54	1

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-C2

Lab Sample ID: 570-66942-4

Date Collected: 08/09/21 09:50

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)	85		37	mg/Kg	☼	08/16/21 13:37	08/19/21 22:50	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150	08/16/21 13:37	08/19/21 22:50	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	98		6.8	mg/Kg	☼	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
n-Octacosane (Surr)	114		50 - 150	08/20/21 16:19	08/24/21 17:15	1

## Client Sample ID: S-5-C4

Lab Sample ID: 570-66942-5

Date Collected: 08/09/21 09:55

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)	760		53	mg/Kg	☼	08/16/21 13:37	08/19/21 06:27	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	140		6.2	mg/Kg	☼	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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150	08/20/21 16:19	08/24/21 17:58	1

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-10-C4

Lab Sample ID: 570-66942-7

Date Collected: 08/09/21 10:05

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)	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

### 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	740		8.2	mg/Kg	☼	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

## Client Sample ID: S-12.5-C4

Lab Sample ID: 570-66942-8

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	RL	Unit	D	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	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150	08/16/21 13:38	08/17/21 20:10	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		6.7	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111		50 - 150	08/20/21 16:19	08/24/21 18:41	1

## Client Sample ID: S-2.5-C6

Lab Sample ID: 570-66942-9

Date Collected: 08/09/21 10:40

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)	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

### 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	☼	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

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-5-C6

Date Collected: 08/09/21 11:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-10

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)	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
4-Bromofluorobenzene (Surr)	54		50 - 150	08/16/21 13:38	08/18/21 14:02	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	290		26	mg/Kg	☼	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
n-Octacosane (Surr)	89		50 - 150	08/20/21 16:19	08/30/21 15:43	5

## Client Sample ID: S-7.5-C6

Date Collected: 08/09/21 10:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-11

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)	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	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	2800		12	mg/Kg	☼	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
n-Octacosane (Surr)	129		50 - 150	08/20/21 16:19	08/24/21 20:29	2

## Client Sample ID: S-10-C6

Date Collected: 08/09/21 11:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-12

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)	29		1.7	mg/Kg	☼	08/16/21 13:38	08/17/21 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150	08/16/21 13:38	08/17/21 21:44	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	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	1

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-C8

Lab Sample ID: 570-66942-13

Date Collected: 08/09/21 11:35

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)	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
4-Bromofluorobenzene (Surr)	89		50 - 150	08/16/21 13:38	08/17/21 22:08	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	540		5.5	mg/Kg	☼	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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.50		0.34	mg/Kg	☼	08/16/21 13:38	08/17/21 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150	08/16/21 13:38	08/17/21 22:31	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		7.3	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150	08/20/21 16:19	08/24/21 21:34	1

## Client Sample ID: S-7.5-C8

Lab Sample ID: 570-66942-15

Date Collected: 08/09/21 11:45

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)	2.6		0.22	mg/Kg	☼	08/16/21 13:38	08/17/21 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150	08/16/21 13:38	08/17/21 22:55	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	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150	08/20/21 16:19	08/24/21 21:55	1

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# Client Sample Results

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

Job ID: 570-66942-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	840		88	mg/Kg	☼	08/16/21 13:37	08/19/21 06:51	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		50 - 150	08/16/21 13:37	08/19/21 06:51	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	13000		78	mg/Kg	☼	08/20/21 16:19	08/24/21 22:17	10
TPH as Motor Oil Range	4600		78	mg/Kg	☼	08/20/21 16:19	08/24/21 22:17	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	153	S1+	50 - 150	08/20/21 16:19	08/24/21 22:17	10

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	290		84	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	D	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117		50 - 150	08/20/21 16:19	08/24/21 22:39	2

## Client Sample ID: S-2.5-D9

Date Collected: 08/09/21 12:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-18

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)	0.32		0.21	mg/Kg	☼	08/16/21 13:38	08/18/21 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150	08/16/21 13:38	08/18/21 14:25	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	290		5.6	mg/Kg	☼	08/20/21 16:19	08/24/21 23:01	1
TPH as Motor Oil Range	120		5.6	mg/Kg	☼	08/20/21 16:19	08/24/21 23:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150	08/20/21 16:19	08/24/21 23:01	1

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-5-D9

Date Collected: 08/09/21 12:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-19

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)	1.3		0.23	mg/Kg	☼	08/16/21 13:38	08/18/21 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150	08/16/21 13:38	08/18/21 14:49	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	180		12	mg/Kg	☼	08/20/21 16:19	08/24/21 23:22	2
TPH as Motor Oil Range	620		12	mg/Kg	☼	08/20/21 16:19	08/24/21 23:22	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		50 - 150	08/20/21 16:19	08/24/21 23:22	2

## Client Sample ID: S-7.5-D9

Date Collected: 08/09/21 12:10

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-20

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		160	mg/Kg	☼	08/16/21 13:37	08/19/21 04:53	500

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

### 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		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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	140		50 - 150	08/20/21 16:19	08/25/21 13:09	50

## Client Sample ID: S-10-D9

Date Collected: 08/09/21 12:15

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-21

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)	550		150	mg/Kg	☼	08/16/21 13:37	08/19/21 10:29	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150	08/16/21 13:37	08/19/21 10:29	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	2700		56	mg/Kg	☼	08/20/21 16:23	08/25/21 03:02	5
TPH as Motor Oil Range	1300		56	mg/Kg	☼	08/20/21 16:23	08/25/21 03:02	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150	08/20/21 16:23	08/25/21 03:02	5

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# Client Sample Results

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

Job ID: 570-66942-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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
4-Bromofluorobenzene (Surr)	67		50 - 150	08/16/21 13:37	08/18/21 18:21	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	290		18	mg/Kg	☼	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

Date Collected: 08/09/21 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)	0.38		0.12	mg/Kg	☼	08/16/21 13:38	08/18/21 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150	08/16/21 13:38	08/18/21 15:12	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	390		5.3	mg/Kg	☼	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

Date Collected: 08/09/21 12:30

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)	210		110	mg/Kg	☼	08/16/21 13:37	08/19/21 05:16	500

Surrogate	%Recovery	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

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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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-E8

Date Collected: 08/09/21 12:35

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-25

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		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

### 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	14000		330	mg/Kg	☼	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 Fac
n-Octacosane (Surr)	110		50 - 150	08/20/21 16:23	08/25/21 14:57	50

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1300		120	mg/Kg	☼	08/16/21 13:37	08/19/21 11:39	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150	08/16/21 13:37	08/19/21 11:39	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	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

## 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

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result	Qualifier	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	Qualifier	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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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-D7

Date Collected: 08/09/21 12:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-28

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)	63		14	mg/Kg	☼	08/16/21 13:37	08/18/21 16:47	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	71		50 - 150			08/16/21 13:37	08/18/21 16:47	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	4300		28	mg/Kg	☼	08/20/21 16:23	08/25/21 06:16	5
TPH as Motor Oil Range	1900		28	mg/Kg	☼	08/20/21 16:23	08/25/21 06:16	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	117		50 - 150			08/20/21 16:23	08/25/21 06:16	5

## Client Sample ID: S-5-D7

Date Collected: 08/09/21 12:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-29

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		250	mg/Kg	☼	08/16/21 13:37	08/19/21 05:40	1000
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	69		50 - 150			08/16/21 13:37	08/19/21 05:40	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	29000		150	mg/Kg	☼	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
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	128		50 - 150			08/20/21 16:23	08/25/21 06:39	25

## Client Sample ID: S-7.5-D7

Date Collected: 08/09/21 13:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-30

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)	350		40	mg/Kg	☼	08/16/21 13:37	08/19/21 03:42	250
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	84		50 - 150			08/16/21 13:37	08/19/21 03:42	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	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
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	107		50 - 150			08/20/21 16:23	08/25/21 07:00	20

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-10-D7

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 Products (GC)

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
4-Bromofluorobenzene (Surr)	85		50 - 150	08/16/21 13:37	08/19/21 12:26	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	40000		150	mg/Kg	☼	08/20/21 16:23	08/25/21 07:21	20
TPH as Motor Oil Range	7000		150	mg/Kg	☼	08/20/21 16:23	08/25/21 07:21	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		50 - 150	08/20/21 16:23	08/25/21 07:21	20

## 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	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150	08/16/21 13:38	08/19/21 08:02	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	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

Date Collected: 08/09/21 13:45

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-33

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	Limits	Prepared	Analyzed	Dil Fac
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	☼	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	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117		50 - 150	08/20/21 16:23	08/25/21 08:05	10

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-5-E6

Date Collected: 08/09/21 13:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-34

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)	710		78	mg/Kg	☼	08/16/21 13:37	08/19/21 21:39	250

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
TPH as Motor Oil Range	8700		740	mg/Kg	☼	08/20/21 16:23	08/25/21 13:53	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	178	S1+	50 - 150	08/20/21 16:23	08/25/21 13:53	100

## Client Sample ID: S-7.5-E6

Date Collected: 08/09/21 13:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-35

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)	620		33	mg/Kg	☼	08/16/21 13:37	08/21/21 15:35	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	50 - 150	08/16/21 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	D	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150	08/20/21 16:23	08/25/21 08:50	2

## Client Sample ID: S-10-E6

Date Collected: 08/09/21 14:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-36

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)	570		84	mg/Kg	☼	08/16/21 13:37	08/19/21 20:52	250

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	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13000		79	mg/Kg	☼	08/20/21 16:23	08/25/21 14:14	10
TPH as Motor Oil Range	1300		79	mg/Kg	☼	08/20/21 16:23	08/25/21 14:14	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	151	S1+	50 - 150	08/20/21 16:23	08/25/21 14:14	10

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-E6

Lab Sample ID: 570-66942-37

Date Collected: 08/09/21 14:05

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)	250		51	mg/Kg	☼	08/16/21 13:37	08/23/21 16:23	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150	08/16/21 13:37	08/23/21 16:23	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	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

## Client Sample ID: S-2.5-D5

Lab Sample ID: 570-66942-38

Date Collected: 08/09/21 14:10

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1600		6.9	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		50 - 150	08/20/21 16:23	08/25/21 09:55	1

## Client Sample ID: S-5-D5

Lab Sample ID: 570-66942-39

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	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	470		83	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	154	S1+	50 - 150	08/20/21 16:23	08/25/21 14:36	10

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# Client Sample Results

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

Job ID: 570-66942-1

## 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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	81		30	mg/Kg	☼	08/16/21 13:37	08/20/21 19:37	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150	08/16/21 13:37	08/20/21 19:37	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	3600		21	mg/Kg	☼	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

Date Collected: 08/09/21 14:25

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)	800		200	mg/Kg	☼	08/16/21 13:37	08/19/21 19:17	250

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	11000		170	mg/Kg	☼	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

Date Collected: 08/09/21 14:30

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)	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	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		6.6	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 Results

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

Job ID: 570-66942-1

## 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 - Northwest - Volatile Petroleum 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
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	73		50 - 150			08/16/21 13:37	08/20/21 20:01	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	4100		68	mg/Kg	☼	08/20/21 16:35	08/26/21 13:17	10
TPH as Motor Oil Range	1300		68	mg/Kg	☼	08/20/21 16:35	08/26/21 13:17	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	110		50 - 150			08/20/21 16:35	08/26/21 13:17	10

## Client Sample ID: S-5-E4

Lab Sample ID: 570-66942-44

Date Collected: 08/09/21 14:40

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)	25		18	mg/Kg	☼	08/16/21 13:37	08/20/21 20:24	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	89		50 - 150			08/16/21 13:37	08/20/21 20:24	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	1500		61	mg/Kg	☼	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
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	125		50 - 150			08/20/21 16:35	08/25/21 21:40	10

## Client Sample ID: S-7.5-E4

Lab Sample ID: 570-66942-45

Date Collected: 08/09/21 14:45

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)	22		5.6	mg/Kg	☼	08/16/21 13:37	08/21/21 16:28	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	81		50 - 150			08/16/21 13:37	08/21/21 16:28	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	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
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	117		50 - 150			08/20/21 16:35	08/25/21 22:01	1

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-10-E4

Date Collected: 08/09/21 14:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-46

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)	38		9.2	mg/Kg	☼	08/16/21 13:37	08/21/21 16:51	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150			08/16/21 13:37	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	1
TPH as Motor Oil Range	96		7.0	mg/Kg	☼	08/20/21 16:35	08/25/21 22:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116		50 - 150			08/20/21 16:35	08/25/21 22:24	1

## Client Sample ID: S-12.5-E4

Date Collected: 08/09/21 14:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-47

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)	0.48		0.26	mg/Kg	☼	08/16/21 13:38	08/23/21 18:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		50 - 150			08/16/21 13:38	08/23/21 18:21	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		6.3	mg/Kg	☼	08/20/21 16:35	08/25/21 22:45	1
TPH as Motor Oil Range	ND		6.3	mg/Kg	☼	08/20/21 16:35	08/25/21 22:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150			08/20/21 16:35	08/25/21 22:45	1

## Client Sample ID: S-2.5-D3

Date Collected: 08/09/21 15:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-48

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)	260		23	mg/Kg	☼	08/16/21 13:37	08/20/21 21:59	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
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	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4100		59	mg/Kg	☼	08/20/21 16:35	08/26/21 13:39	10
TPH as Motor Oil Range	1400		59	mg/Kg	☼	08/20/21 16:35	08/26/21 13:39	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150			08/20/21 16:35	08/26/21 13:39	10

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-66942-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1600		58	mg/Kg	☼	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

### 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		300	mg/Kg	☼	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

Date Collected: 08/09/21 15:10

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-50

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	560		66	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150	08/20/21 16:35	08/26/21 06:25	10

## Client Sample ID: S-10-D3

Date Collected: 08/09/21 15:15

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-51

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)	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

### 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	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

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-D3

Lab Sample ID: 570-66942-52

Date Collected: 08/09/21 15:20

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)	0.38		0.26	mg/Kg	☼	08/16/21 13:40	08/21/21 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		50 - 150	08/16/21 13:40	08/21/21 13:40	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		6.4	mg/Kg	☼	08/20/21 16:35	08/26/21 07:52	1
TPH as Motor Oil Range	ND		6.4	mg/Kg	☼	08/20/21 16:35	08/26/21 07:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		50 - 150	08/20/21 16:35	08/26/21 07:52	1

## Client Sample ID: S-2.5-E2

Lab Sample ID: 570-66942-53

Date Collected: 08/09/21 15:25

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)	64		28	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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	430		64	mg/Kg	☼	08/20/21 16:35	08/26/21 08:13	10
TPH as Motor Oil Range	240		64	mg/Kg	☼	08/20/21 16:35	08/26/21 08:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150	08/20/21 16:35	08/26/21 08:13	10

## Client Sample ID: S-5-E2

Lab Sample ID: 570-66942-54

Date Collected: 08/09/21 15:30

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)	280		35	mg/Kg	☼	08/16/21 13:37	08/21/21 01:31	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150	08/16/21 13:37	08/21/21 01:31	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	1000		63	mg/Kg	☼	08/20/21 16:35	08/26/21 08:34	10
TPH as Motor Oil Range	200		63	mg/Kg	☼	08/20/21 16:35	08/26/21 08:34	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	120		50 - 150	08/20/21 16:35	08/26/21 08:34	10

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-E2

Date Collected: 08/09/21 15:35

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-55

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)	280		26	mg/Kg	☼	08/16/21 13:37	08/21/21 01:55	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150	08/16/21 13:37	08/21/21 01:55	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	1500		6.5	mg/Kg	☼	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

## Client Sample ID: S-10-E2

Date Collected: 08/09/21 15:40

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-56

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)	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

### 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	250		6.3	mg/Kg	☼	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)	111		50 - 150	08/20/21 16:35	08/26/21 09:20	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum 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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150	08/16/21 13:40	08/23/21 12:27	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		7.4	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

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-D1

Date Collected: 08/09/21 15:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-58

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		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

### 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	390		13	mg/Kg	☼	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	2

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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)	78		50 - 150	08/16/21 13:37	08/21/21 03:29	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	410		57	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		50 - 150	08/20/21 16:35	08/26/21 10:24	10

## Client Sample ID: S-7.5-D1

Date Collected: 08/09/21 16:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-60

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)	25		0.84	mg/Kg	☼	08/16/21 13:40	08/21/21 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150	08/16/21 13:40	08/21/21 14:04	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	5700		140	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	133		50 - 150	08/20/21 16:35	08/26/21 10:46	10

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-10-D1

Date Collected: 08/09/21 16:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-61

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)	160		85	mg/Kg	☼	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

### 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	400		14	mg/Kg	☼	08/20/21 16:52	08/28/21 00:26	1
TPH as Motor Oil Range	220		14	mg/Kg	☼	08/20/21 16:52	08/28/21 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121		50 - 150	08/20/21 16:52	08/28/21 00:26	1

## Client Sample ID: S-12.5-D1

Date Collected: 08/09/21 16:10

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-62

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)	0.60		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 - 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	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		50 - 150	08/20/21 16:52	08/28/21 00:47	1

## Client Sample ID: S-2.5-G2

Date Collected: 08/10/21 07:45

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-63

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)	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

### 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	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	2

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-5-G2

Date Collected: 08/10/21 07:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-64

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)	50		25	mg/Kg	☼	08/16/21 13:37	08/21/21 07:51	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150	08/16/21 13:37	08/21/21 07:51	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	190		5.8	mg/Kg	☼	08/20/21 16:52	08/28/21 01:31	1
TPH as Motor Oil Range	150		5.8	mg/Kg	☼	08/20/21 16:52	08/28/21 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116		50 - 150	08/20/21 16:52	08/28/21 01:31	1

## Client Sample ID: S-10-G2

Date Collected: 08/10/21 07:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-66

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)	3.6		0.21	mg/Kg	☼	08/16/21 13:40	08/21/21 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	17	S1-	50 - 150	08/16/21 13:40	08/21/21 15:39	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	240		5.7	mg/Kg	☼	08/20/21 16:52	08/28/21 01:53	1
TPH as Motor Oil Range	120		5.7	mg/Kg	☼	08/20/21 16:52	08/28/21 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150	08/20/21 16:52	08/28/21 01:53	1

## Client Sample ID: S-12.5-G2

Date Collected: 08/10/21 08:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-67

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		1.0	mg/Kg	☼	08/16/21 13:40	08/21/21 14:51	1

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

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-F3

Date Collected: 08/10/21 08:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-68

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)	300		25	mg/Kg	☼	08/16/21 13:37	08/21/21 09:04	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150	08/16/21 13:37	08/21/21 09:04	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	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

Date Collected: 08/10/21 08:10

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-69

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1400		5.8	mg/Kg	☼	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

## Client Sample ID: S-10-F3

Date Collected: 08/10/21 08:15

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-70

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		0.21	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 13:40	08/21/21 15:15	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	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125		50 - 150	08/20/21 16:52	08/28/21 03:20	1

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# Client Sample Results

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

Job ID: 570-66942-1

## 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

### 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	☼	08/16/21 13:40	08/24/21 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150	08/16/21 13:40	08/24/21 18:01	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		6.8	mg/Kg	☼	08/20/21 16:52	08/28/21 03:44	1
TPH as Motor Oil Range	7.8		6.8	mg/Kg	☼	08/20/21 16:52	08/28/21 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116		50 - 150	08/20/21 16:52	08/28/21 03:44	1

## Client Sample ID: S-2.5-G4

Lab Sample ID: 570-66942-72

Date Collected: 08/10/21 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)	110		22	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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2800		57	mg/Kg	☼	08/20/21 16:52	08/28/21 21:31	10
TPH as Motor Oil Range	1400		57	mg/Kg	☼	08/20/21 16:52	08/28/21 21:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117		50 - 150	08/20/21 16:52	08/28/21 21:31	10

## Client Sample ID: S-5-G4

Lab Sample ID: 570-66942-73

Date Collected: 08/10/21 08:30

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)	250		24	mg/Kg	☼	08/16/21 13:37	08/21/21 14:09	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	250		6.3	mg/Kg	☼	08/20/21 16:52	08/28/21 05:10	1
TPH as Motor Oil Range	130		6.3	mg/Kg	☼	08/20/21 16:52	08/28/21 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122		50 - 150	08/20/21 16:52	08/28/21 05:10	1

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-G4

Lab Sample ID: 570-66942-74

Date Collected: 08/10/21 08:35

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)	12		4.3	mg/Kg	☼	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

### 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		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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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)	106		50 - 150	08/16/21 13:37	08/21/21 11:09	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	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

## Client Sample ID: S-12.5-G4

Lab Sample ID: 570-66942-76

Date Collected: 08/10/21 08:05

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		1.3	mg/Kg	☼	08/16/21 13:40	08/21/21 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150	08/16/21 13:40	08/21/21 15:07	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		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

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-F5

Date Collected: 08/10/21 09:15

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-77

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)	310		28	mg/Kg	☼	08/16/21 13:37	08/21/21 12:06	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	500		6.7	mg/Kg	☼	08/20/21 16:52	08/28/21 06:37	1
TPH as Motor Oil Range	270		6.7	mg/Kg	☼	08/20/21 16:52	08/28/21 06:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	118		50 - 150	08/20/21 16:52	08/28/21 06:37	1

## 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

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)	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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	76000		410	mg/Kg	☼	08/20/21 16:52	08/28/21 21:53	50
TPH as Motor Oil Range	6200		410	mg/Kg	☼	08/20/21 16:52	08/28/21 21:53	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	152	S1+	50 - 150	08/20/21 16:52	08/28/21 21:53	50

## Client Sample ID: S-7.5-F5

Date Collected: 08/10/21 09:25

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-79

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)	1400		79	mg/Kg	☼	08/16/21 13:37	08/21/21 13:04	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	173	S1+	50 - 150	08/16/21 13:37	08/21/21 13:04	100

### 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	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

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# Client Sample Results

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

Job ID: 570-66942-1

## 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 - Northwest - Volatile Petroleum 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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		50 - 150	08/16/21 13:37	08/21/21 13:35	100

### 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	21000		140	mg/Kg	☼	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

## Client Sample ID: S-12.5-F5

Date Collected: 08/10/21 09:35

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-81

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)	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 - 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 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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150	08/20/21 16:52	08/28/21 08:04	1

## Client Sample ID: S-2.5-G6

Date Collected: 08/10/21 09:40

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-82

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)	280		29	mg/Kg	☼	08/16/21 13:37	08/21/21 17:25	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150	08/16/21 13:37	08/21/21 17:25	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	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

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-5-G6

Date Collected: 08/10/21 09:45

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-83

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)	260		25	mg/Kg	☼	08/16/21 13:37	08/21/21 17:48	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150	08/16/21 13:37	08/21/21 17:48	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	☼	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
n-Octacosane (Surr)	96		50 - 150	08/20/21 16:57	08/28/21 15:43	2

## Client Sample ID: S-7.5-G6

Date Collected: 08/10/21 09:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-84

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		26	mg/Kg	☼	08/16/21 13:37	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	☼	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

Date Collected: 08/10/21 09:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-85

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)	240		26	mg/Kg	☼	08/16/21 13:37	08/21/21 18:35	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150	08/16/21 13:37	08/21/21 18:35	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)	95		50 - 150	08/20/21 16:57	08/28/21 16:23	1

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-G6

Lab Sample ID: 570-66942-86

Date Collected: 08/10/21 10:00

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)	170		26	mg/Kg	☼	08/16/21 13:37	08/21/21 18:59	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150	08/16/21 13:37	08/21/21 18:59	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	590		6.9	mg/Kg	☼	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	1

## Client Sample ID: S-2.5-F7

Lab Sample ID: 570-66942-87

Date Collected: 08/10/21 10:05

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	160		6.3	mg/Kg	☼	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

## Client Sample ID: S-5-F7

Lab Sample ID: 570-66942-88

Date Collected: 08/10/21 10:10

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)	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

### 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	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150	08/20/21 16:57	08/30/21 04:04	50

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-F7

Date Collected: 08/10/21 10:15

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-89

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)	340		26	mg/Kg	☼	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

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	65000		320	mg/Kg	☼	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 Fac
n-Octacosane (Surr)	289	S1+	50 - 150	08/20/21 16:57	08/30/21 15:23	50

## Client Sample ID: S-10-F7

Date Collected: 08/10/21 10:20

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-90

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1400		6.8	mg/Kg	☼	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	Qualifier	Limits	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

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-91

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)	12		1.5	mg/Kg	☼	08/16/21 13:40	08/23/21 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150	08/16/21 13:40	08/23/21 13:37	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	480		24	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-G8

Lab Sample ID: 570-66942-92

Date Collected: 08/10/21 10:35

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)	120		26	mg/Kg	☼	08/16/21 13:37	08/21/21 22:07	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		50 - 150	08/16/21 13:37	08/21/21 22:07	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	380		5.9	mg/Kg	☼	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

## Client Sample ID: S-5-G8

Lab Sample ID: 570-66942-93

Date Collected: 08/10/21 10:40

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)	230		22	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

### 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	350		5.9	mg/Kg	☼	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

## Client Sample ID: S-7.5-G8

Lab Sample ID: 570-66942-94

Date Collected: 08/10/21 10:45

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)	1400		120	mg/Kg	☼	08/16/21 13:37	08/23/21 20:13	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150	08/16/21 13:37	08/23/21 20:13	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	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150	08/20/21 16:57	08/29/21 00:28	5

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# Client Sample Results

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

Job ID: 570-66942-1

## 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

### 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	☼	08/16/21 13:37	08/21/21 23:18	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150	08/16/21 13:37	08/21/21 23:18	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	☼	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

Date Collected: 08/10/21 10:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-96

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
4-Bromofluorobenzene (Surr)	91		50 - 150	08/16/21 13:37	08/21/21 23:42	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	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

Date Collected: 08/10/21 11:15

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-97

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)	28		4.2	mg/Kg	☼	08/16/21 13:37	08/23/21 16:46	20

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	140		5.5	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-5-F9

Date Collected: 08/10/21 11:20

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-98

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)	510		64	mg/Kg	☼	08/16/21 13:37	08/22/21 00:29	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150	08/16/21 13:37	08/22/21 00:29	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	12000		120	mg/Kg	☼	08/20/21 16:57	08/29/21 02:32	20
TPH as Motor Oil Range	7000		120	mg/Kg	☼	08/20/21 16:57	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

## Client Sample ID: S-7.5-F9

Date Collected: 08/10/21 11:25

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-99

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)	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

### 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	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

## Client Sample ID: S-10-F9

Date Collected: 08/10/21 11:30

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-100

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)	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)	74		50 - 150	08/16/21 13:37	08/22/21 01:16	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	16000		54	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150	08/20/21 16:57	08/29/21 03:12	5

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-F9

Lab Sample ID: 570-66942-101

Date Collected: 08/10/21 11:35

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)	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
4-Bromofluorobenzene (Surr)	70		50 - 150	08/16/21 13:43	08/23/21 14:24	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	270		23	mg/Kg	☼	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	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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	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

### 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		5.6	mg/Kg	☼	08/20/21 16:59	08/28/21 11:20	1
TPH as Motor Oil Range	ND		5.6	mg/Kg	☼	08/20/21 16:59	08/28/21 11:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	120		50 - 150	08/20/21 16:59	08/28/21 11:20	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150	08/16/21 13:53	08/22/21 00:43	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	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	141		50 - 150	08/20/21 16:59	08/28/21 11:42	10

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-5-I8

Date Collected: 08/10/21 11:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-104

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)	2100		130	mg/Kg	☼	08/16/21 13:53	08/23/21 20:36	500

Surrogate	%Recovery	Qualifier	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 - Northwest - Semi-Volatile Petroleum Products (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

## Client Sample ID: S-7.5-I8

Date Collected: 08/10/21 11:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-105

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)	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)	85		50 - 150	08/16/21 13:53	08/22/21 01:30	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		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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150	08/20/21 16:59	08/28/21 14:17	1

## Client Sample ID: S-10-I8

Date Collected: 08/10/21 12:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-106

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)	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

### 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		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

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-I8

Lab Sample ID: 570-66942-107

Date Collected: 08/10/21 12:05

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)	1000		180	mg/Kg	☼	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

### 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	10000		44	mg/Kg	☼	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

Date Collected: 08/10/21 12:10

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6500		28	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	141		50 - 150	08/20/21 16:59	08/28/21 15:22	5

## Client Sample ID: S-5-H7

Lab Sample ID: 570-66942-109

Date Collected: 08/10/21 12:15

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)	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: 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		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

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-H7

Lab Sample ID: 570-66942-110

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	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	290		28	mg/Kg	☼	08/16/21 13:53	08/22/21 03:28	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		50 - 150	08/16/21 13:53	08/22/21 03:28	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		6.7	mg/Kg	☼	08/20/21 16:59	08/28/21 16:05	1
TPH as Motor Oil Range	500		6.7	mg/Kg	☼	08/20/21 16:59	08/28/21 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122		50 - 150	08/20/21 16:59	08/28/21 16:05	1

## 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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150	08/16/21 13:53	08/22/21 03:52	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	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

## Client Sample ID: S-12.5-H7

Lab Sample ID: 570-66942-112

Date Collected: 08/10/21 12:30

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)	38		14	mg/Kg	☼	08/16/21 13:53	08/23/21 19:49	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150	08/16/21 13:53	08/23/21 19:49	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	230		7.6	mg/Kg	☼	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	Qualifier	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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# Client Sample Results

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

Job ID: 570-66942-1

**Client Sample ID: S-2.5-I6**

**Lab Sample ID: 570-66942-113**

Date Collected: 08/10/21 12:35

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)	140		20	mg/Kg	☼	08/16/21 13:53	08/22/21 05:27	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150	08/16/21 13:53	08/22/21 05:27	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	780		6.1	mg/Kg	☼	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 Collected: 08/10/21 12:40

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)	380		22	mg/Kg	☼	08/16/21 13:53	08/22/21 05:50	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 - Northwest - Semi-Volatile Petroleum Products (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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150	08/20/21 16:59	08/30/21 05:16	10

**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

**Method: NWTPH-Gx - Northwest - Volatile Petroleum 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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150	08/16/21 13:53	08/22/21 06:14	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		6.6	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	117		50 - 150	08/20/21 16:59	08/28/21 17:53	1

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# Client Sample Results

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

Job ID: 570-66942-1

**Client Sample ID: S-10-I6**

**Lab Sample ID: 570-66942-116**

Date Collected: 08/10/21 12:50

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)	300		31	mg/Kg	☼	08/16/21 13:53	08/22/21 06:37	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	73		50 - 150			08/16/21 13:53	08/22/21 06:37	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	1000		7.2	mg/Kg	☼	08/20/21 16:59	08/28/21 18:14	1
TPH as Motor Oil Range	320		7.2	mg/Kg	☼	08/20/21 16:59	08/28/21 18:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	131		50 - 150			08/20/21 16:59	08/28/21 18:14	1

**Client Sample ID: S-12.5-I6**

**Lab Sample ID: 570-66942-117**

Date Collected: 08/10/21 12:55

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)	69		26	mg/Kg	☼	08/16/21 13:53	08/22/21 07:01	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	72		50 - 150			08/16/21 13:53	08/22/21 07:01	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	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
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	124		50 - 150			08/20/21 16:59	08/28/21 18:36	1

**Client Sample ID: S-2.5-J7**

**Lab Sample ID: 570-66942-118**

Date Collected: 08/10/21 13:05

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)	60		18	mg/Kg	☼	08/16/21 13:53	08/22/21 07:25	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	76		50 - 150			08/16/21 13:53	08/22/21 07:25	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	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
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	160	S1+	50 - 150			08/20/21 16:59	08/28/21 18:58	25

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# Client Sample Results

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

Job ID: 570-66942-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	480		30	mg/Kg	☼	08/16/21 13:53	08/22/21 07:48	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150	08/16/21 13:53	08/22/21 07:48	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	470		6.4	mg/Kg	☼	08/20/21 16:59	08/28/21 19:20	1
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	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

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	830		6.3	mg/Kg	☼	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

## Client Sample ID: S-10-J7

Date Collected: 08/10/21 13:20

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-121

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)	2200		390	mg/Kg	☼	08/16/21 13:53	08/24/21 11:03	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		50 - 150	08/16/21 13:53	08/24/21 11:03	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	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

Eurofins Calscience LLC

# Client Sample Results

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

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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	910		52	mg/Kg	☼	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

### 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	730		9.8	mg/Kg	☼	08/20/21 17:02	08/29/21 01:57	1
TPH as Motor Oil Range	180		9.8	mg/Kg	☼	08/20/21 17:02	08/29/21 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125		50 - 150			08/20/21 17:02	08/29/21 01:57	1

## 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	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	4.5		2.7	mg/Kg	☼	08/16/21 13:43	08/24/21 10:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150			08/16/21 13:43	08/24/21 10:12	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	ND		24	mg/Kg	☼	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

Date Collected: 08/10/21 13:35

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)	390		23	mg/Kg	☼	08/16/21 13:53	08/23/21 20:59	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		50 - 150			08/16/21 13:53	08/23/21 20:59	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	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

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-5-J5

Date Collected: 08/10/21 13:40

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-125

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)	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

Date Collected: 08/10/21 13:45

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-126

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	☼	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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7800		29	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	Qualifier	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

Date Collected: 08/10/21 13:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-127

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)	97		29	mg/Kg	☼	08/16/21 13:53	08/23/21 21:51	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150	08/16/21 13:53	08/23/21 21:51	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	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	128		50 - 150	08/20/21 17:02	08/29/21 04:31	1

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-J5

Lab Sample ID: 570-66942-128

Date Collected: 08/10/21 13:55

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)	63		29	mg/Kg	☼	08/16/21 13:53	08/24/21 10:37	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150	08/16/21 13:53	08/24/21 10:37	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	120		12	mg/Kg	☼	08/20/21 17:02	08/30/21 06:21	1
TPH as Motor Oil Range	51		12	mg/Kg	☼	08/20/21 17:02	08/30/21 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	127		50 - 150	08/20/21 17:02	08/30/21 06:21	1

## Client Sample ID: S-2.5-H5

Lab Sample ID: 570-66942-129

Date Collected: 08/10/21 14:00

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)	480		26	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	D	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	141		50 - 150	08/20/21 17:02	08/29/21 05:14	2

## Client Sample ID: S-5-H5

Lab Sample ID: 570-66942-130

Date Collected: 08/10/21 14:05

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)	650		25	mg/Kg	☼	08/16/21 13:53	08/23/21 23:08	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150	08/16/21 13:53	08/23/21 23:08	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	4900		55	mg/Kg	☼	08/20/21 17:02	08/30/21 06:43	10
TPH as Motor Oil Range	1300		55	mg/Kg	☼	08/20/21 17:02	08/30/21 06:43	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	121		50 - 150	08/20/21 17:02	08/30/21 06:43	10

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# Client Sample Results

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

Job ID: 570-66942-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	320		20	mg/Kg	☼	08/16/21 13:53	08/23/21 23:34	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		50 - 150	08/16/21 13:53	08/23/21 23:34	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	380		7.1	mg/Kg	☼	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

Date Collected: 08/10/21 14:15

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)	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)	114		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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1300		29	mg/Kg	☼	08/20/21 17:02	08/29/21 06:20	5
TPH as Motor 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

Date Collected: 08/10/21 14:20

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)	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	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil 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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	129		50 - 150	08/20/21 17:02	08/29/21 06:42	1

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-14.5-H5

Lab Sample ID: 570-66942-134

Date Collected: 08/10/21 14:25

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)	63		17	mg/Kg	☼	08/16/21 13:53	08/23/21 19:26	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	48	S1-	50 - 150	08/16/21 13:53	08/23/21 19:26	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	200		14	mg/Kg	☼	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
n-Octacosane (Surr)	125		50 - 150	08/20/21 17:02	08/29/21 07:04	1

## 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	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	300		26	mg/Kg	☼	08/16/21 13:53	08/21/21 20:22	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150	08/16/21 13:53	08/21/21 20:22	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	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 Petroleum Products (GC)

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
n-Octacosane (Surr)	119		50 - 150	08/20/21 17:02	08/29/21 07:49	1

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# Client Sample Results

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

Job ID: 570-66942-1

## Client Sample ID: S-10-D1 DUP

Lab Sample ID: 570-66942-137

Date Collected: 08/09/21 16:05

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)	190		69	mg/Kg	☼	08/16/21 13:53	08/21/21 21:09	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150	08/16/21 13:53	08/21/21 21:09	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	170		10	mg/Kg	☼	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
n-Octacosane (Surr)	123		50 - 150	08/20/21 17:02	08/29/21 08:10	1

## Client Sample ID: S-10-F9 DUP

Lab Sample ID: 570-66942-138

Date Collected: 08/10/21 11:30

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)	470		59	mg/Kg	☼	08/16/21 13:53	08/21/21 21:33	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150	08/16/21 13:53	08/21/21 21:33	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	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

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)	1600		100	mg/Kg	☼	08/16/21 13:53	08/21/21 21:57	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150	08/16/21 13:53	08/21/21 21:57	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	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

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# Client Sample Results

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

Job ID: 570-66942-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	530		48	mg/Kg	☼	08/16/21 13:53	08/23/21 20:26	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	5
TPH as Motor Oil Range	350		32	mg/Kg	☼	08/20/21 17:02	08/29/21 09:16	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150	08/20/21 17:02	08/29/21 09:16	5

## 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	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	330		31	mg/Kg	☼	08/17/21 15:18	08/23/21 20:55	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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	140		6.7	mg/Kg	☼	08/20/21 17:02	08/29/21 09:37	1
TPH as Motor Oil Range	82		6.7	mg/Kg	☼	08/20/21 17:02	08/29/21 09:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150	08/20/21 17:02	08/29/21 09:37	1

# Surrogate Summary

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

Job ID: 570-66942-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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
570-66942-11	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
570-66942-19	S-5-D9	80
570-66942-20	S-7.5-D9	70
570-66942-21	S-10-D9	64
570-66942-22	S-12.5-D9	67
570-66942-23	S-2.5-E8	90
570-66942-24	S-5-E8	68
570-66942-25	S-7.5-E8	95
570-66942-26	S-10-E8	77
570-66942-27	S-12.5-E8	69
570-66942-28	S-2.5-D7	71
570-66942-29	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+
570-66942-36	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
570-66942-40	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
570-66942-45	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

Eurofins Calscience LLC

# Surrogate Summary

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**

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (50-150)
570-66942-50	S-7.5-D3	92
570-66942-51	S-10-D3	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

# Surrogate Summary

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**

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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 570-173135/9	Lab Control Sample	107
LCS 570-173152/9	Lab Control Sample	107
LCS 570-173304/32	Lab Control Sample	92
LCS 570-173340/3	Lab Control Sample	111
LCS 570-173393/3	Lab Control Sample	112

# Surrogate Summary

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

Job ID: 570-66942-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (50-150)
LCS 570-173418/31	Lab Control Sample	98
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

**Surrogate Legend**

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)

Lab Sample ID	Client Sample ID	OTCSN (50-150)
570-66942-1	S-5-C2	114

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# Surrogate Summary

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)

Lab Sample ID	Client Sample ID	OTCSN (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-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	124
570-66942-36	S-10-E6	151 S1+
570-66942-37	S-12.5-E6	127
570-66942-38	S-2.5-D5	106
570-66942-39	S-5-D5	154 S1+
570-66942-40	S-7.5-D5	127
570-66942-41	S-10-D5	157 S1+
570-66942-42	S-12.5-D5	109
570-66942-43	S-2.5-E4	110

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# Surrogate Summary

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)

Lab Sample ID	Client Sample ID	OTCSN (50-150)
570-66942-44	S-5-E4	125
570-66942-45	S-7.5-E4	117
570-66942-46	S-10-E4	116
570-66942-47	S-12.5-E4	110
570-66942-48	S-2.5-D3	124
570-66942-49	S-5-D3	106
570-66942-49 MS	S-5-D3	87
570-66942-49 MS	S-5-D3	97
570-66942-49 MSD	S-5-D3	147
570-66942-49 MSD	S-5-D3	110
570-66942-50	S-7.5-D3	124
570-66942-51	S-10-D3	115
570-66942-52	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	116
570-66942-72 - DL	S-2.5-G4	117
570-66942-73	S-5-G4	122
570-66942-74	S-7.5-G4	119
570-66942-75	S-10-G4	123
570-66942-76	S-12.5-G4	132
570-66942-77	S-2.5-F5	118
570-66942-78 - DL	S-5-F5	152 S1+
570-66942-79 - DL	S-7.5-F5	138
570-66942-80 - DL	S-10-F5	140
570-66942-81	S-12.5-F5	124
570-66942-82	S-2.5-G6	97
570-66942-82 MS	S-2.5-G6	99
570-66942-82 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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# Surrogate Summary

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)		
Lab Sample ID	Client Sample ID	OTCSN (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-I8	141
570-66942-104	S-5-I8	127
570-66942-105	S-7.5-I8	124
570-66942-106	S-10-I8	129
570-66942-107	S-12.5-I8	142
570-66942-108	S-2.5-H7	141
570-66942-109	S-5-H7	127
570-66942-110	S-7.5-H7	122
570-66942-111	S-10-H7	105
570-66942-112	S-12.5-H7	127
570-66942-113	S-2.5-I6	132
570-66942-114	S-5-I6	119
570-66942-115	S-7.5-I6	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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# Surrogate Summary

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

Job ID: 570-66942-1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (50-150)
570-66942-127	S-10-J5	128
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	S-10-H5	126
570-66942-133	S-12.5-H5	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+
570-66942-140	S-5-H5 DUP	124
570-66942-141	S-7.5-H7 DUP	124
LCS 570-173212/26-A	Lab Control Sample	111
LCS 570-173212/2-A	Lab Control Sample	117
LCS 570-173215/26-A	Lab Control Sample	106
LCS 570-173215/2-A	Lab Control Sample	109
LCS 570-173220/26-A	Lab Control Sample	103
LCS 570-173220/2-A	Lab Control Sample	110
LCS 570-173225/26-A	Lab Control Sample	120
LCS 570-173225/2-A	Lab Control Sample	117
LCS 570-173226/26-A	Lab Control Sample	91
LCS 570-173226/2-A	Lab Control Sample	98
LCS 570-173228/26-A	Lab Control Sample	122
LCS 570-173228/2-A	Lab Control Sample	120
LCS 570-173229/26-A	Lab Control Sample	119
LCS 570-173229/2-A	Lab Control Sample	119
LCSD 570-173212/27-A	Lab Control Sample Dup	110
LCSD 570-173212/3-A	Lab Control Sample Dup	112
LCSD 570-173215/27-A	Lab Control Sample Dup	103
LCSD 570-173215/3-A	Lab Control Sample Dup	109
LCSD 570-173220/27-A	Lab Control Sample Dup	102
LCSD 570-173220/3-A	Lab Control Sample Dup	117
LCSD 570-173225/27-A	Lab Control Sample Dup	114
LCSD 570-173225/3-A	Lab Control Sample Dup	118
LCSD 570-173226/27-A	Lab Control Sample Dup	92
LCSD 570-173226/3-A	Lab Control Sample Dup	98
LCSD 570-173228/27-A	Lab Control Sample Dup	116
LCSD 570-173228/3-A	Lab Control Sample Dup	118
LCSD 570-173229/27-A	Lab Control Sample Dup	120
LCSD 570-173229/3-A	Lab Control Sample Dup	113
MB 570-173212/1-A	Method Blank	113
MB 570-173215/1-A	Method Blank	108
MB 570-173220/1-A	Method Blank	114
MB 570-173225/1-A	Method Blank	116
MB 570-173226/1-A	Method Blank	97
MB 570-173228/1-A	Method Blank	117
MB 570-173229/1-A	Method Blank	120

# Surrogate Summary

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

Job ID: 570-66942-1

## 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)

Lab Sample ID	Client Sample ID	OTCSN
570-66942-102 MS	S-2.5-F9 DUP	
570-66942-102 MSD	S-2.5-F9 DUP	

## Surrogate Legend

OTCSN = n-Octacosane (Surr)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# QC Sample Results

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

Job ID: 570-66942-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-171922/5**  
**Matrix: Solid**  
**Analysis Batch: 171922**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/17/21 11:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150				08/17/21 11:37	1

**Lab Sample ID: LCS 570-171922/3**  
**Matrix: Solid**  
**Analysis Batch: 171922**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.976		mg/Kg		93	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	102		50 - 150				

**Lab Sample ID: LCSD 570-171922/4**  
**Matrix: Solid**  
**Analysis Batch: 171922**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.11	1.973		mg/Kg		93	77 - 128	0	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	102		50 - 150						

**Lab Sample ID: MB 570-172337/5**  
**Matrix: Solid**  
**Analysis Batch: 172337**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/18/21 13:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		50 - 150				08/18/21 13:15	1

**Lab Sample ID: MB 570-172337/6**  
**Matrix: Solid**  
**Analysis Batch: 172337**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/18/21 13:38	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 150				08/18/21 13:38	20

# QC Sample Results

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

Job ID: 570-66942-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-172337/3**  
**Matrix: Solid**  
**Analysis Batch: 172337**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.852		mg/Kg		87	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	87		50 - 150				

**Lab Sample ID: LCSD 570-172337/4**  
**Matrix: Solid**  
**Analysis Batch: 172337**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.11	1.852		mg/Kg		88	77 - 128	0	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	92		50 - 150						

**Lab Sample ID: MB 570-172559/37**  
**Matrix: Solid**  
**Analysis Batch: 172559**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/19/21 02:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
4-Bromofluorobenzene (Surr)	73		50 - 150		08/19/21 02:08	1		

**Lab Sample ID: MB 570-172559/57**  
**Matrix: Solid**  
**Analysis Batch: 172559**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/19/21 10:05	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
4-Bromofluorobenzene (Surr)	73		50 - 150		08/19/21 10:05	20		

**Lab Sample ID: LCS 570-172559/35**  
**Matrix: Solid**  
**Analysis Batch: 172559**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	1.788		mg/Kg		84	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	97		50 - 150				

# QC Sample Results

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

Job ID: 570-66942-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-172559/36**  
**Matrix: Solid**  
**Analysis Batch: 172559**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.843		mg/Kg		87	77 - 128	3	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	94		50 - 150						

**Lab Sample ID: MB 570-172815/7**  
**Matrix: Solid**  
**Analysis Batch: 172815**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/19/21 18:04	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>					
4-Bromofluorobenzene (Surr)	57		50 - 150					
						<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							08/19/21 18:04	20

**Lab Sample ID: LCS 570-172815/4**  
**Matrix: Solid**  
**Analysis Batch: 172815**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TPH as Gasoline (C4-C13)	2.12	1.925		mg/Kg		91	77 - 128		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	97		50 - 150						

**Lab Sample ID: LCSD 570-172815/5**  
**Matrix: Solid**  
**Analysis Batch: 172815**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.11	1.962		mg/Kg		93	77 - 128	2	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	99		50 - 150						

**Lab Sample ID: MB 570-173135/12**  
**Matrix: Solid**  
**Analysis Batch: 173135**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/20/21 18:04	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>					
4-Bromofluorobenzene (Surr)	79		50 - 150					
						<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							08/20/21 18:04	20

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# QC Sample Results

Client: Cardno, Inc  
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**  
**Matrix: Solid**  
**Analysis Batch: 173135**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	1.848		mg/Kg		87	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	107		50 - 150				

**Lab Sample ID: LCSD 570-173135/10**  
**Matrix: Solid**  
**Analysis Batch: 173135**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.828		mg/Kg		86	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	98		50 - 150						

**Lab Sample ID: MB 570-173152/11**  
**Matrix: Solid**  
**Analysis Batch: 173152**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/20/21 20:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	90		50 - 150				08/20/21 20:14	1

**Lab Sample ID: MB 570-173152/12**  
**Matrix: Solid**  
**Analysis Batch: 173152**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/20/21 20:43	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	89		50 - 150				08/20/21 20:43	20

**Lab Sample ID: LCS 570-173152/9**  
**Matrix: Solid**  
**Analysis Batch: 173152**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.14	1.859		mg/Kg		87	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	107		50 - 150				

# QC Sample Results

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

Job ID: 570-66942-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-173152/10**  
**Matrix: Solid**  
**Analysis Batch: 173152**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.11	1.858		mg/Kg		88	77 - 128	0	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	114		50 - 150						

**Lab Sample ID: MB 570-173304/35**  
**Matrix: Solid**  
**Analysis Batch: 173304**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/21/21 05:50	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	68		50 - 150				08/21/21 05:50	20

**Lab Sample ID: LCS 570-173304/32**  
**Matrix: Solid**  
**Analysis Batch: 173304**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.742		mg/Kg		82	77 - 128		
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	92		50 - 150						

**Lab Sample ID: LCSD 570-173304/33**  
**Matrix: Solid**  
**Analysis Batch: 173304**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.718		mg/Kg		81	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	91		50 - 150						

**Lab Sample ID: MB 570-173340/5**  
**Matrix: Solid**  
**Analysis Batch: 173340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/21/21 12:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	94		50 - 150				08/21/21 12:23	1

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# QC Sample Results

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

Job ID: 570-66942-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-173340/6**  
**Matrix: Solid**  
**Analysis Batch: 173340**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/21/21 12:50	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150				08/21/21 12:50	20

**Lab Sample ID: LCS 570-173340/3**  
**Matrix: Solid**  
**Analysis Batch: 173340**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.042		mg/Kg		96	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	111		50 - 150				

**Lab Sample ID: LCSD 570-173340/4**  
**Matrix: Solid**  
**Analysis Batch: 173340**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.919		mg/Kg		90	77 - 128	6	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		50 - 150						

**Lab Sample ID: MB 570-173393/6**  
**Matrix: Solid**  
**Analysis Batch: 173393**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/21/21 16:38	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150				08/21/21 16:38	20

**Lab Sample ID: LCS 570-173393/3**  
**Matrix: Solid**  
**Analysis Batch: 173393**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.10	1.997		mg/Kg		95	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	112		50 - 150				

# QC Sample Results

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

Job ID: 570-66942-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-173393/4**  
**Matrix: Solid**  
**Analysis Batch: 173393**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.956		mg/Kg		92	77 - 128	2	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	119		50 - 150						

**Lab Sample ID: MB 570-173418/33**  
**Matrix: Solid**  
**Analysis Batch: 173418**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/21/21 23:55	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	82		50 - 150			08/21/21 23:55	20	

**Lab Sample ID: LCS 570-173418/31**  
**Matrix: Solid**  
**Analysis Batch: 173418**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TPH as Gasoline (C4-C13)	2.13	1.659		mg/Kg		78	77 - 128		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	98		50 - 150						

**Lab Sample ID: LCSD 570-173418/32**  
**Matrix: Solid**  
**Analysis Batch: 173418**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.09	1.626		mg/Kg		78	77 - 128	2	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	97		50 - 150						

**Lab Sample ID: MB 570-173454/5**  
**Matrix: Solid**  
**Analysis Batch: 173454**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/23/21 11:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	88		50 - 150			08/23/21 11:30	1	

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# QC Sample Results

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

Job ID: 570-66942-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-173454/6**  
**Matrix: Solid**  
**Analysis Batch: 173454**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/23/21 12:00	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		50 - 150				08/23/21 12:00	20

**Lab Sample ID: LCS 570-173454/3**  
**Matrix: Solid**  
**Analysis Batch: 173454**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.14	1.919		mg/Kg		90	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	105		50 - 150				

**Lab Sample ID: LCSD 570-173454/4**  
**Matrix: Solid**  
**Analysis Batch: 173454**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.11	1.880		mg/Kg		89	77 - 128	2	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		50 - 150						

**Lab Sample ID: MB 570-173459/21**  
**Matrix: Solid**  
**Analysis Batch: 173459**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/23/21 17:56	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		50 - 150				08/23/21 17:56	20

**Lab Sample ID: MB 570-173459/5**  
**Matrix: Solid**  
**Analysis Batch: 173459**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/23/21 11:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59		50 - 150				08/23/21 11:28	1

# QC Sample Results

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

Job ID: 570-66942-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-173459/3**  
**Matrix: Solid**  
**Analysis Batch: 173459**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.10	1.842		mg/Kg		88	77 - 128
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		77					50 - 150

**Lab Sample ID: LCSD 570-173459/4**  
**Matrix: Solid**  
**Analysis Batch: 173459**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.680		mg/Kg		79	77 - 128	9	16
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		74					50 - 150		

**Lab Sample ID: MB 570-173725/17**  
**Matrix: Solid**  
**Analysis Batch: 173725**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/23/21 18:51	1
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	84		50 - 150				08/23/21 18:51	1

**Lab Sample ID: MB 570-173725/18**  
**Matrix: Solid**  
**Analysis Batch: 173725**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/23/21 19:16	20
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	82		50 - 150				08/23/21 19:16	20

**Lab Sample ID: LCS 570-173725/15**  
**Matrix: Solid**  
**Analysis Batch: 173725**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.130		mg/Kg		100	77 - 128
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		91					50 - 150

# QC Sample Results

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

Job ID: 570-66942-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-173725/16**  
**Matrix: Solid**  
**Analysis Batch: 173725**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.11	2.103		mg/Kg		100	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	91		50 - 150						

**Lab Sample ID: MB 570-173959/5**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/24/21 14:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	77		50 - 150				08/24/21 14:37	1

**Lab Sample ID: LCS 570-173959/3**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.10	1.946		mg/Kg		93	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	112		50 - 150				

**Lab Sample ID: LCSD 570-173959/4**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.967		mg/Kg		93	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	91		50 - 150						

## 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	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/20/21 16:19	08/24/21 12:36	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/20/21 16:19	08/24/21 12:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	113		50 - 150			08/20/21 16:19	08/24/21 12:36	1

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# QC Sample Results

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: LCS 570-173212/26-A**  
**Matrix: Solid**  
**Analysis Batch: 173940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173212**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	408.8		mg/Kg		102	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	111		50 - 150				

**Lab Sample ID: LCS 570-173212/2-A**  
**Matrix: Solid**  
**Analysis Batch: 173940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173212**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	441.8		mg/Kg		110	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	117		50 - 150				

**Lab Sample ID: LCSD 570-173212/27-A**  
**Matrix: Solid**  
**Analysis Batch: 173940**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173212**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	408.2		mg/Kg		102	71 - 139	0	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	110		50 - 150						

**Lab Sample ID: LCSD 570-173212/3-A**  
**Matrix: Solid**  
**Analysis Batch: 173940**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173212**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	453.3		mg/Kg		113	76 - 126	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	112		50 - 150						

**Lab Sample ID: 570-66942-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: S-5-C2**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173212**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	72		465	553.8		mg/Kg	☼	104	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	114		50 - 150						



# QC Sample Results

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: 570-66942-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: S-5-C2**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173212**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	530	F1 F2	464	1141		mg/Kg	☼	131	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	105		50 - 150						

**Lab Sample ID: 570-66942-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: S-5-C2**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173212**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Diesel (C10-C28)	72		463	556.7		mg/Kg	☼	105	37 - 175	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	110		50 - 150								

**Lab Sample ID: 570-66942-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: S-5-C2**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173212**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	530	F1 F2	464	837.2	F1 F2	mg/Kg	☼	66	71 - 174	31	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	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**

Analyte	MB Result	MB 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
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>n-Octacosane (Surr)</i>	108		50 - 150			08/20/21 16:23	08/24/21 13:41	1

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	389.9		mg/Kg		97	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	106		50 - 150				

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# QC Sample Results

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: LCS 570-173215/2-A**  
**Matrix: Solid**  
**Analysis Batch: 173940**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173215**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	419.8		mg/Kg		105	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	109		50 - 150				

**Lab Sample ID: LCSD 570-173215/27-A**  
**Matrix: Solid**  
**Analysis Batch: 173940**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173215**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	385.0		mg/Kg		96	71 - 139	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	103		50 - 150						

**Lab Sample ID: LCSD 570-173215/3-A**  
**Matrix: Solid**  
**Analysis Batch: 173940**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173215**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	424.7		mg/Kg		106	76 - 126	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	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**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	430		427	806.3		mg/Kg	⊛	89	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	104		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**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	370		429	738.1		mg/Kg	⊛	87	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	110		50 - 150						

# QC Sample Results

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: 570-66942-23 MSD**  
**Matrix: Solid**  
**Analysis Batch: 173940**

**Client Sample ID: S-2.5-E8**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173215**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	430		423	754.5		mg/Kg	☼	78	37 - 175	7	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
<i>n-Octacosane (Surr)</i>	99		50 - 150								

**Lab Sample ID: 570-66942-23 MSD**  
**Matrix: Solid**  
**Analysis Batch: 173940**

**Client Sample ID: S-2.5-E8**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173215**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	370		428	899.2	E	mg/Kg	☼	125	71 - 174	20	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
<i>n-Octacosane (Surr)</i>	108		50 - 150								

**Lab Sample ID: MB 570-173220/1-A**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173220**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/20/21 16:31	08/25/21 17:22	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/20/21 16:31	08/25/21 17:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
<i>n-Octacosane (Surr)</i>	114		50 - 150	08/20/21 16:31	08/25/21 17:22	1		

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	376.1		mg/Kg		94	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>LCS Limits</b>				
<i>n-Octacosane (Surr)</i>	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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	410.8		mg/Kg		103	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>LCS Limits</b>				
<i>n-Octacosane (Surr)</i>	110		50 - 150				

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# QC Sample Results

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: LCSD 570-173220/27-A**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173220**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	398.4		mg/Kg		100	71 - 139	6	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	102		50 - 150						

**Lab Sample ID: LCSD 570-173220/3-A**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173220**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	452.7		mg/Kg		113	76 - 126	10	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	117		50 - 150						

**Lab Sample ID: 570-66942-49 MS**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: S-5-D3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173220**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	22000	F2	493	19670	4	mg/Kg	⊛	-568	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	87		50 - 150						

**Lab Sample ID: 570-66942-49 MS**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: S-5-D3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173220**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	8400		498	9102	4	mg/Kg	⊛	142	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	97		50 - 150						

**Lab Sample ID: 570-66942-49 MSD**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: S-5-D3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173220**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	22000	F2	490	45370	4 F2	mg/Kg	⊛	4676	37 - 175	79	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	147		50 - 150								

# QC Sample Results

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: 570-66942-49 MSD**  
**Matrix: Solid**  
**Analysis Batch: 174335**

**Client Sample ID: S-5-D3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173220**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	8400		497	8749	4	mg/Kg	☼	72	71 - 174	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
<i>n-Octacosane (Surr)</i>	110		50 - 150								

**Lab Sample ID: MB 570-173225/1-A**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173225**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/20/21 16:52	08/27/21 20:49	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/20/21 16:52	08/27/21 20:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
<i>n-Octacosane (Surr)</i>	116		50 - 150	08/20/21 16:52	08/27/21 20:49	1		

**Lab Sample ID: LCS 570-173225/26-A**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173225**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	445.3		mg/Kg		111	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>LCS Limits</b>				
<i>n-Octacosane (Surr)</i>	120		50 - 150				

**Lab Sample ID: LCS 570-173225/2-A**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173225**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	505.3		mg/Kg		126	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>LCS Limits</b>				
<i>n-Octacosane (Surr)</i>	117		50 - 150				

**Lab Sample ID: LCSD 570-173225/27-A**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173225**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	423.7		mg/Kg		106	71 - 139	5	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>LCSD Limits</b>						
<i>n-Octacosane (Surr)</i>	114		50 - 150						

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# QC Sample Results

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: LCSD 570-173225/3-A**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173225**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Diesel (C10-C28)	400	453.6		mg/Kg		113	76 - 126	11	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	118		50 - 150							

**Lab Sample ID: 570-66942-61 MS**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: S-10-D1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173225**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	470		1140	1353		mg/Kg	⊛	77	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	112		50 - 150								

**Lab Sample ID: 570-66942-61 MS**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: S-10-D1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173225**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	450		1150	1541		mg/Kg	⊛	95	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	114		50 - 150								

**Lab Sample ID: 570-66942-61 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: S-10-D1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173225**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	470		1150	1479		mg/Kg	⊛	88	37 - 175	9	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	116		50 - 150								

**Lab Sample ID: 570-66942-61 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: S-10-D1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173225**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	450		1150	1527		mg/Kg	⊛	94	71 - 174	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	116		50 - 150								

# QC Sample Results

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: MB 570-173226/1-A**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173226**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/20/21 16:56	08/28/21 12:17	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/20/21 16:56	08/28/21 12:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			08/20/21 16:56	08/28/21 12:17	1

**Lab Sample ID: LCS 570-173226/26-A**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173226**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	443.7		mg/Kg		111	71 - 139
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	91		50 - 150				

**Lab Sample ID: LCS 570-173226/2-A**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173226**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	452.9		mg/Kg		113	76 - 126
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	98		50 - 150				

**Lab Sample ID: LCSD 570-173226/27-A**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173226**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	418.9		mg/Kg		105	71 - 139	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	92		50 - 150						

**Lab Sample ID: LCSD 570-173226/3-A**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173226**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	471.5		mg/Kg		118	76 - 126	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	98		50 - 150						

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# QC Sample Results

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**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	
TPH as Diesel (C10-C28)	1900	F2 F1	514	1571	F1	mg/Kg	⊛	-60	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>								
<i>n-Octacosane (Surr)</i>	99		50 - 150								

**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**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	
TPH as Motor Oil (C17-C44)	1300	F1	516	1859	E	mg/Kg	⊛	100	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>								
<i>n-Octacosane (Surr)</i>	99		50 - 150								

**Lab Sample ID: 570-66942-82 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: S-2.5-G6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173226**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	RPD	Limit
TPH as Diesel (C10-C28)	1900	F2 F1	512	1944	F2 F1	mg/Kg	⊛	12	37 - 175		21	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>									
<i>n-Octacosane (Surr)</i>	98		50 - 150									

**Lab Sample ID: 570-66942-82 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: S-2.5-G6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173226**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	1300	F1	518	1518	E F1	mg/Kg	⊛	33	71 - 174		20	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>									
<i>n-Octacosane (Surr)</i>	92		50 - 150									

**Lab Sample ID: MB 570-173228/1-A**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173228**

Analyte	MB	MB	RL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier								
TPH as Diesel Range	ND		5.0	mg/Kg		08/20/21 16:59	08/27/21 21:10			1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/20/21 16:59	08/27/21 21:10			1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>			<b>Prepared</b>	<b>Analyzed</b>			
<i>n-Octacosane (Surr)</i>	117		50 - 150			08/20/21 16:59	08/27/21 21:10	1		

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# QC Sample Results

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: LCS 570-173228/26-A**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173228**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	456.9		mg/Kg		114	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	122		50 - 150				

**Lab Sample ID: LCS 570-173228/2-A**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173228**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	427.4		mg/Kg		107	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	120		50 - 150				

**Lab Sample ID: LCSD 570-173228/27-A**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173228**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	421.6		mg/Kg		105	71 - 139	8	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	116		50 - 150						

**Lab Sample ID: LCSD 570-173228/3-A**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173228**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	454.5		mg/Kg		114	76 - 126	6	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	118		50 - 150						

**Lab Sample ID: 570-66942-102 MS**  
**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: S-2.5-F9 DUP**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173228**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	120		444	601.2		mg/Kg		⊛	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>									

# QC Sample Results

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: 570-66942-102 MS**

**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: S-2.5-F9 DUP**

**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173228**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	76		437	532.2		mg/Kg	☼	104	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	102		50 - 150						

**Lab Sample ID: 570-66942-102 MSD**

**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: S-2.5-F9 DUP**

**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173228**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	120		446	592.0		mg/Kg	☼				
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>											

**Lab Sample ID: 570-66942-102 MSD**

**Matrix: Solid**  
**Analysis Batch: 175006**

**Client Sample ID: S-2.5-F9 DUP**

**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173228**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	76		438	606.9		mg/Kg	☼	121	71 - 174	13	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	131		50 - 150								

**Lab Sample ID: MB 570-173229/1-A**

**Matrix: Solid**  
**Analysis Batch: 175125**

**Client Sample ID: Method Blank**

**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173229**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/20/21 17:02	08/28/21 13:34	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/20/21 17:02	08/28/21 13:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>n-Octacosane (Surr)</i>	120		50 - 150			08/20/21 17:02	08/28/21 13:34	1

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	431.4		mg/Kg		108	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	119		50 - 150				

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# QC Sample Results

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: LCS 570-173229/2-A**  
**Matrix: Solid**  
**Analysis Batch: 175125**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173229**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	494.4		mg/Kg		124	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	119		50 - 150				

**Lab Sample ID: LCSD 570-173229/27-A**  
**Matrix: Solid**  
**Analysis Batch: 175125**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173229**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	439.8		mg/Kg		110	71 - 139	2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	120		50 - 150						

**Lab Sample ID: LCSD 570-173229/3-A**  
**Matrix: Solid**  
**Analysis Batch: 175125**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173229**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	443.8		mg/Kg		111	76 - 126	11	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	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**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	790	F2 F1	783	2360	F1	mg/Kg	⊛	201	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	102		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**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	530	F2 F1	775	1382		mg/Kg	⊛	111	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	114		50 - 150						

# QC Sample Results

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: 570-66942-122 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175125**

**Client Sample ID: S-12.5-J7**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173229**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Diesel (C10-C28)	790	F2 F1	786	1317	F2	mg/Kg	⊛	67	37 - 175	57	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b> <b>Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	119		50 - 150								

**Lab Sample ID: 570-66942-122 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175125**

**Client Sample ID: S-12.5-J7**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173229**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	530	F2 F1	776	2128	E F1 F2	mg/Kg	⊛	206	71 - 174	42	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b> <b>Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	111		50 - 150								

# QC Association Summary

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

Job ID: 570-66942-1

## 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	
570-66942-73	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	

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## GC VOA (Continued)

### Prep Batch: 171695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
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	
570-66942-103	S-2.5-I8	Total/NA	Solid	5035	
570-66942-104	S-5-I8	Total/NA	Solid	5035	
570-66942-105	S-7.5-I8	Total/NA	Solid	5035	
570-66942-106	S-10-I8	Total/NA	Solid	5035	
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-I6	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	

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## 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

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## 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	

Eurofins Calscience LLC



# QC Association Summary

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

Job ID: 570-66942-1

## 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

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## 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-I8	Total/NA	Solid	NWTPH-Gx	171695
570-66942-107	S-12.5-I8	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

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## 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-I8	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

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## 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 Batch
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	

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## 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	

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## 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	

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## 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

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-I8	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-I6	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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# QC Association Summary

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

Job ID: 570-66942-1

## GC Semi VOA (Continued)

### Prep Batch: 173228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-102 MS	S-2.5-F9 DUP	Silica Gel Cleanup	Solid	3550C SGC	
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	
LCS 570-173229/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCS 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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# QC Association Summary

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

Job ID: 570-66942-1

## GC Semi VOA (Continued)

### Analysis Batch: 173940 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-15	S-7.5-C8	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-16	S-10-C8	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-17	S-12.5-C8	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-18	S-2.5-D9	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-19	S-5-D9	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-20	S-7.5-D9	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-21	S-10-D9	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-22	S-12.5-D9	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-23	S-2.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-24	S-5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-25 - DL	S-7.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-26 - DL	S-10-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-27 - DL	S-12.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-28	S-2.5-D7	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-29	S-5-D7	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-30	S-7.5-D7	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-31	S-10-D7	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-32	S-12.5-D7	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-33	S-2.5-E6	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-34 - DL	S-5-E6	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-35	S-7.5-E6	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-36	S-10-E6	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-37	S-12.5-E6	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-38	S-2.5-D5	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-39	S-5-D5	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-40	S-7.5-D5	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
MB 570-173212/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
MB 570-173215/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
LCS 570-173212/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
LCS 570-173212/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
LCS 570-173215/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
LCS 570-173215/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
LCSD 570-173212/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
LCSD 570-173212/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
LCSD 570-173215/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
LCSD 570-173215/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-23 MS	S-2.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-23 MS	S-2.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-23 MSD	S-2.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	173215
570-66942-23 MSD	S-2.5-E8	Silica Gel Cleanup	Solid	NWTPH-Dx	173215

### 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

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# QC Association Summary

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

Job ID: 570-66942-1

## 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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# QC Association Summary

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

Job ID: 570-66942-1

## 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-I8	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-I8	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-I6	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-117	S-12.5-I6	Silica Gel Cleanup	Solid	NWTPH-Dx	173228

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## 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

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66942-1

## 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

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-5-C2

Date Collected: 08/09/21 09:35

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-1

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			6.255 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	171922	08/17/21 16:14	P1R	ECL 2
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 Instrument ID: GC48		5			174335	08/26/21 12:34	A1W	ECL 1

## Client Sample ID: S-7.5-C2

Date Collected: 08/09/21 09:40

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-2

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			22.357 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			173940	08/24/21 16:33	A1W	ECL 1

## Client Sample ID: S-10-C2

Date Collected: 08/09/21 09:45

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-3

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			11.588 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	171922	08/17/21 17:25	P1R	ECL 2
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 Instrument ID: GC48		1			173940	08/24/21 16:54	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		250	5 mL	5 mL	172815	08/19/21 22:50	P1R	ECL 2
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 Instrument ID: GC48		1			173940	08/24/21 17:15	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			173940	08/24/21 17:37	A1W	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		50	5 mL	5 mL	173135	08/20/21 19:14	A9VE	ECL 2
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 Instrument ID: GC48		1			173940	08/24/21 17:58	A1W	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			173940	08/24/21 18:19	A1W	ECL 1

**Client Sample ID: S-12.5-C4**  
**Date Collected: 08/09/21 10:10**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-8**  
**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			7.639 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	171922	08/17/21 20:10	P1R	ECL 2
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 Instrument ID: GC48		1			173940	08/24/21 18:41	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-C6

## Lab Sample ID: 570-66942-9

Date Collected: 08/09/21 10:40

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1	5 g	5 mL	171922	08/17/21 20:33	P1R	ECL 2
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 Instrument ID: GC48		5			173940	08/24/21 19:02	A1W	ECL 1

## Client Sample ID: S-5-C6

## Lab Sample ID: 570-66942-10

Date Collected: 08/09/21 11:00

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1	5 g	5 mL	172337	08/18/21 14:02	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC	DL		10.16 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50	DL	5			175333	08/30/21 15:43	UJ3K	ECL 1

## Client Sample ID: S-7.5-C6

## Lab Sample ID: 570-66942-11

Date Collected: 08/09/21 10:50

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		50	5 mL	5 mL	172337	08/18/21 16:23	P1R	ECL 2
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 Instrument ID: GC48		2			173940	08/24/21 20:29	A1W	ECL 1

## Client Sample ID: S-10-C6

## Lab Sample ID: 570-66942-12

Date Collected: 08/09/21 11:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1	5 g	5 mL	171922	08/17/21 21:44	P1R	ECL 2
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 Instrument ID: GC48		1			173940	08/24/21 20:51	A1W	ECL 1



# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-C8

## Lab Sample ID: 570-66942-13

Date Collected: 08/09/21 11:35

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.069 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	171922	08/17/21 22:08	P1R	ECL 2
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 Instrument ID: GC48		1			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.411 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			173940	08/24/21 21:34	A1W	ECL 1

## Client Sample ID: S-7.5-C8

## Lab Sample ID: 570-66942-15

Date Collected: 08/09/21 11:45

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1	5 g	5 mL	171922	08/17/21 22:55	P1R	ECL 2
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 Instrument ID: GC48		1			173940	08/24/21 21:55	A1W	ECL 1

## Client Sample ID: S-10-C8

## Lab Sample ID: 570-66942-16

Date Collected: 08/09/21 11:50

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.636 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	172559	08/19/21 06:51	P1R	ECL 2
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 Instrument ID: GC48		10			173940	08/24/21 22:17	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.106 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	172559	08/19/21 10:52	P1R	ECL 2
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 Instrument ID: GC48		2			173940	08/24/21 22:39	A1W	ECL 1

**Client Sample ID: S-2.5-D9**  
**Date Collected: 08/09/21 12:00**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-18**  
**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			6.754 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	172337	08/18/21 14:25	P1R	ECL 2
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 Instrument ID: GC48		1			173940	08/24/21 23:01	A1W	ECL 1

**Client Sample ID: S-5-D9**  
**Date Collected: 08/09/21 12:05**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-19**  
**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			6.544 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	172337	08/18/21 14:49	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		2			173940	08/24/21 23:22	A1W	ECL 1

**Client Sample ID: S-7.5-D9**  
**Date Collected: 08/09/21 12:10**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-20**  
**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			5.497 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		500	5 mL	5 mL	172559	08/19/21 04:53	P1R	ECL 2
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 Instrument ID: GC48		50			173940	08/25/21 13:09	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-10-D9**  
**Date Collected: 08/09/21 12:15**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-21**  
**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			4.626 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	172559	08/19/21 10:29	P1R	ECL 2
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 Instrument ID: GC48		5			173940	08/25/21 03:02	A1W	ECL 1

**Client Sample ID: S-12.5-D9**  
**Date Collected: 08/09/21 12:20**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-22**  
**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			3.986 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		20	5 mL	5 mL	172337	08/18/21 18:21	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		1			173940	08/25/21 04:06	A1W	ECL 1

**Client Sample ID: S-2.5-E8**  
**Date Collected: 08/09/21 12:25**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-23**  
**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			10.825 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			173940	08/25/21 04:28	A1W	ECL 1

**Client Sample ID: S-5-E8**  
**Date Collected: 08/09/21 12:30**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-24**  
**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			7.801 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		500	5 mL	5 mL	172559	08/19/21 05:16	P1R	ECL 2
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 Instrument ID: GC48		5			173940	08/25/21 04:50	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-E8

Lab Sample ID: 570-66942-25

Date Collected: 08/09/21 12:35

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48	DL	50			173940	08/25/21 14:57	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.081 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	172559	08/19/21 11:39	P1R	ECL 2
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 Instrument ID: GC48	DL	50			173940	08/25/21 15:34	A1W	ECL 1

## Client Sample ID: S-12.5-E8

Lab Sample ID: 570-66942-27

Date Collected: 08/09/21 12:45

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48	DL	10			173940	08/25/21 13:31	A1W	ECL 1

## Client Sample ID: S-2.5-D7

Lab Sample ID: 570-66942-28

Date Collected: 08/09/21 12:50

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		100	5 mL	5 mL	172337	08/18/21 16:47	P1R	ECL 2
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 Instrument ID: GC48		5			173940	08/25/21 06:16	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-5-D7

Date Collected: 08/09/21 12:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-29

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			6.059 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1000	5 mL	5 mL	172559	08/19/21 05:40	P1R	ECL 2
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 Instrument ID: GC48		25			173940	08/25/21 06:39	A1W	ECL 1

## Client Sample ID: S-7.5-D7

Date Collected: 08/09/21 13:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-30

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			9.336 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	172559	08/19/21 03:42	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		20			173940	08/25/21 07:00	A1W	ECL 1

## Client Sample ID: S-10-D7

Date Collected: 08/09/21 13:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-31

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			6.276 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	172559	08/19/21 12:26	P1R	ECL 2
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 Instrument ID: GC48		20			173940	08/25/21 07:21	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1	5 g	5 mL	172559	08/19/21 08:02	P1R	ECL 2
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 Instrument ID: GC48		1			173940	08/25/21 07:43	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-E6

Date Collected: 08/09/21 13:45

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-33

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			9.893 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		10			173940	08/25/21 08:05	A1W	ECL 1

## Client Sample ID: S-5-E6

Date Collected: 08/09/21 13:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-34

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			5.908 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	172815	08/19/21 21:39	P1R	ECL 2
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 Instrument ID: GC48	DL	100			173940	08/25/21 13:53	A1W	ECL 1

## Client Sample ID: S-7.5-E6

Date Collected: 08/09/21 13:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-35

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			5.015 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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	NWTPH-Dx Instrument ID: GC48		2			173940	08/25/21 08:50	A1W	ECL 1

## Client Sample ID: S-10-E6

Date Collected: 08/09/21 14:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-36

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			5.993 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	172815	08/19/21 20:52	P1R	ECL 2
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 Instrument ID: GC48		10			173940	08/25/21 14:14	A1W	ECL 1

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# Lab Chronicle

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

Job ID: 570-66942-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		50	5 mL	5 mL	173459	08/23/21 16:23	A9VE	ECL 2
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 Instrument ID: GC48		1			173940	08/25/21 09:33	A1W	ECL 1

**Client Sample ID: S-2.5-D5**  
**Date Collected: 08/09/21 14:10**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-38**  
**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			6.433 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	172815	08/19/21 20:04	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		1			173940	08/25/21 09:55	A1W	ECL 1

**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**  
**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			5.807 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		10			173940	08/25/21 14:36	A1W	ECL 1

**Client Sample ID: S-7.5-D5**  
**Date Collected: 08/09/21 14:20**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-40**  
**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			3.456 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		20	5 mL	5 mL	173135	08/20/21 19:37	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		1			173940	08/25/21 10:38	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-10-D5**  
**Date Collected: 08/09/21 14:25**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-41**  
**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			5.36 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	172815	08/19/21 19:17	P1R	ECL 2
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 Instrument ID: GC48		10			174335	08/26/21 12:55	A1W	ECL 1

**Client Sample ID: S-12.5-D5**  
**Date Collected: 08/09/21 14:30**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-42**  
**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			6.516 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	172559	08/19/21 08:55	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		1			174335	08/25/21 20:56	A1W	ECL 1

**Client Sample ID: S-2.5-E4**  
**Date Collected: 08/09/21 14:35**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-43**  
**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			6.339 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		100	5 mL	5 mL	173135	08/20/21 20:01	A9VE	ECL 2
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 Instrument ID: GC48		10			174335	08/26/21 13:17	A1W	ECL 1

**Client Sample ID: S-5-E4**  
**Date Collected: 08/09/21 14:40**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-44**  
**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			8.593 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		100	5 mL	5 mL	173135	08/20/21 20:24	A9VE	ECL 2
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 Instrument ID: GC48		10			174335	08/25/21 21:40	A1W	ECL 1



# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-E4

Date Collected: 08/09/21 14:45

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-45

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			6.278 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			174335	08/25/21 22:01	A1W	ECL 1

## Client Sample ID: S-10-E4

Date Collected: 08/09/21 14:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-46

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			3.779 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		20	5 mL	5 mL	173340	08/21/21 16:51	A9VE	ECL 2
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 Instrument ID: GC48		1			174335	08/25/21 22:24	A1W	ECL 1

## Client Sample ID: S-12.5-E4

Date Collected: 08/09/21 14:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-47

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			6.318 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC25		1	5 g	5 mL	173454	08/23/21 18:21	P1R	ECL 2
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 Instrument ID: GC48		1			174335	08/25/21 22:45	A1W	ECL 1

## Client Sample ID: S-2.5-D3

Date Collected: 08/09/21 15:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-48

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			6.592 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		100	5 mL	5 mL	173135	08/20/21 21:59	A9VE	ECL 2
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 Instrument ID: GC48		10			174335	08/26/21 13:39	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-5-D3

Lab Sample ID: 570-66942-49

Date Collected: 08/09/21 15:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		250	5 mL	5 mL	173340	08/21/21 18:24	A9VE	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC48										

## Client Sample ID: S-7.5-D3

Lab Sample ID: 570-66942-50

Date Collected: 08/09/21 15:10

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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	Prep	3550C SGC			10.20 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 06:25	A1W	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-10-D3

Lab Sample ID: 570-66942-51

Date Collected: 08/09/21 15:15

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-12.5-D3

Lab Sample ID: 570-66942-52

Date Collected: 08/09/21 15:20

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-E2

## Lab Sample ID: 570-66942-53

Date Collected: 08/09/21 15:25

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.841 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 01:08	A9VE	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC48										

## Client Sample ID: S-5-E2

## Lab Sample ID: 570-66942-54

Date Collected: 08/09/21 15:30

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-7.5-E2

## Lab Sample ID: 570-66942-55

Date Collected: 08/09/21 15:35

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-10-E2

## Lab Sample ID: 570-66942-56

Date Collected: 08/09/21 15:40

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-66942-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.397 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	173459	08/23/21 12:27	A9VE	ECL 2
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 Instrument ID: GC48		1			174335	08/26/21 09:41	A1W	ECL 1

**Client Sample ID: S-2.5-D1**  
**Date Collected: 08/09/21 15:50**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-58**  
**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			7.214 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		100	5 mL	5 mL	173135	08/21/21 03:06	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.26 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		2			174335	08/26/21 10:03	A1W	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		100	5 mL	5 mL	173135	08/21/21 03:29	A9VE	ECL 2
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 Instrument ID: GC48		10			174335	08/26/21 10:24	A1W	ECL 1

**Client Sample ID: S-7.5-D1**  
**Date Collected: 08/09/21 16:00**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-60**  
**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			4.15 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		1	5 g	5 mL	173340	08/21/21 14:04	A9VE	ECL 2
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 Instrument ID: GC48		10			174335	08/26/21 10:46	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-10-D1

Date Collected: 08/09/21 16:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-61

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			4.241 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 06:38	A9VE	ECL 2
Instrument ID: GC1										
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
Instrument ID: GC48										

## Client Sample ID: S-12.5-D1

Date Collected: 08/09/21 16:10

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-62

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			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
Instrument ID: GC56										
Silica Gel Cleanup	Prep	3550C SGC			10.26 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 00:47	N5Y3	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-2.5-G2

Date Collected: 08/10/21 07:45

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-63

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			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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-5-G2

Date Collected: 08/10/21 07:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-64

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			5.993 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-10-G2**  
**Date Collected: 08/10/21 07:55**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-66**  
**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			6.745 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175006	08/28/21 01:53	N5Y3	ECL 1

**Client Sample ID: S-12.5-G2**  
**Date Collected: 08/10/21 08:00**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-67**  
**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			4.137 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		1	5 g	5 mL	173340	08/21/21 14:51	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		1			175006	08/28/21 02:15	N5Y3	ECL 1

**Client Sample ID: S-2.5-F3**  
**Date Collected: 08/10/21 08:05**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-68**  
**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			6.093 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC1		100	5 mL	5 mL	173304	08/21/21 09:04	A9VE	ECL 2
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 Instrument ID: GC48		10			175125	08/28/21 21:10	N5Y3	ECL 1

**Client Sample ID: S-5-F3**  
**Date Collected: 08/10/21 08:10**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-69**  
**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			6.676 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC1		100	5 mL	5 mL	173304	08/21/21 09:28	A9VE	ECL 2
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 Instrument ID: GC48		1			175006	08/28/21 02:58	N5Y3	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-10-F3

Lab Sample ID: 570-66942-70

Date Collected: 08/10/21 08:15

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		1	5 g	5 mL	173340	08/21/21 15:15	A9VE	ECL 2
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 Instrument ID: GC48		1			175006	08/28/21 03:20	N5Y3	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.262 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	173959	08/24/21 18:01	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.29 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		1			175006	08/28/21 03:44	N5Y3	ECL 1

## Client Sample ID: S-2.5-G4

Lab Sample ID: 570-66942-72

Date Collected: 08/10/21 08:25

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC25		100	5 mL	5 mL	173152	08/21/21 00:02	P1R	ECL 2
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 Instrument ID: GC48	DL	10			175125	08/28/21 21:31	N5Y3	ECL 1

## Client Sample ID: S-5-G4

Lab Sample ID: 570-66942-73

Date Collected: 08/10/21 08:30

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC25		100	5 mL	5 mL	173152	08/21/21 14:09	P1R	ECL 2
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 Instrument ID: GC48		1			175006	08/28/21 05:10	N5Y3	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-G4

Lab Sample ID: 570-66942-74

Date Collected: 08/10/21 08:35

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		100	5 mL	5 mL	173152	08/21/21 11:09	P1R	ECL 2
Instrument ID: GC25										
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
Instrument ID: GC48										

## Client Sample ID: S-12.5-G4

Lab Sample ID: 570-66942-76

Date Collected: 08/10/21 08:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-2.5-F5

Lab Sample ID: 570-66942-77

Date Collected: 08/10/21 09:15

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.985 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
Instrument 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
Instrument ID: GC48										



# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-5-F5

## Lab Sample ID: 570-66942-78

Date Collected: 08/10/21 09:20

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.233 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC25		100	5 mL	5 mL	173152	08/21/21 12:35	P1R	ECL 2
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 Instrument ID: GC48	DL	50			175125	08/28/21 21:53	N5Y3	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC25		100	5 mL	5 mL	173152	08/21/21 13:04	P1R	ECL 2
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 Instrument ID: GC48	DL	10			175125	08/28/21 22:16	N5Y3	ECL 1

## Client Sample ID: S-10-F5

## Lab Sample ID: 570-66942-80

Date Collected: 08/10/21 09:30

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC25		100	5 mL	5 mL	173152	08/21/21 13:35	P1R	ECL 2
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 Instrument ID: GC48	DL	10			175125	08/28/21 22:39	N5Y3	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1	5 g	5 mL	173459	08/23/21 13:14	A9VE	ECL 2
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 Instrument ID: GC48		1			175006	08/28/21 08:04	N5Y3	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-G6

## Lab Sample ID: 570-66942-82

Date Collected: 08/10/21 09:40

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.527 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 17:25	P1R	ECL 2
Instrument ID: GC57										
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
Instrument ID: GC50										

## Client Sample ID: S-5-G6

## Lab Sample ID: 570-66942-83

Date Collected: 08/10/21 09:45

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-10-G6

## Lab Sample ID: 570-66942-85

Date Collected: 08/10/21 09:55

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-12.5-G6

Lab Sample ID: 570-66942-86

Date Collected: 08/10/21 10:00

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		100	5 mL	5 mL	173393	08/21/21 18:59	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175001	08/28/21 16:43	N5Y3	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-2.5-F7

Lab Sample ID: 570-66942-87

Date Collected: 08/10/21 10:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.639 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 19:22	P1R	ECL 2
Instrument 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			175001	08/28/21 17:02	N5Y3	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-5-F7

Lab Sample ID: 570-66942-88

Date Collected: 08/10/21 10:10

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-10-F7

Lab Sample ID: 570-66942-90

Date Collected: 08/10/21 10:20

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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		100	5 mL	5 mL	173393	08/21/21 20:33	P1R	ECL 2
Instrument 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			175154	08/28/21 23:06	N5Y3	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-12.5-F7

Lab Sample ID: 570-66942-91

Date Collected: 08/10/21 10:25

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 mL	5 mL	173459	08/23/21 13:37	A9VE	ECL 2
Instrument ID: GC57										
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
Instrument ID: GC50										

## Client Sample ID: S-2.5-G8

Lab Sample ID: 570-66942-92

Date Collected: 08/10/21 10:35

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.825 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-5-G8

Lab Sample ID: 570-66942-93

Date Collected: 08/10/21 10:40

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-7.5-G8**  
**Date Collected: 08/10/21 10:45**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-94**  
**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			6.775 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	173459	08/23/21 20:13	A9VE	ECL 2
Instrument 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		5			175154	08/29/21 00:28	N5Y3	ECL 1
Instrument ID: GC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			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	Prep	3550C SGC			10.16 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175154	08/29/21 00:50	N5Y3	ECL 1
Instrument ID: GC50										

**Client Sample ID: S-12.5-G8**  
**Date Collected: 08/10/21 10:55**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-96**  
**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			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
Instrument 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
Instrument ID: GC50										

**Client Sample ID: S-2.5-F9**  
**Date Collected: 08/10/21 11:15**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-97**  
**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			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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-5-F9

Lab Sample ID: 570-66942-98

Date Collected: 08/10/21 11:20

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.757 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	173393	08/22/21 00:29	P1R	ECL 2
Instrument ID: GC57										
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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	Prep	3550C SGC			10.13 g	10 mL	173226	08/20/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 02:52	N5Y3	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-10-F9

Lab Sample ID: 570-66942-100

Date Collected: 08/10/21 11:30

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		100	5 mL	5 mL	173393	08/22/21 01:16	P1R	ECL 2
Instrument ID: GC57										
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
Instrument ID: GC50										

## Client Sample ID: S-12.5-F9

Lab Sample ID: 570-66942-101

Date Collected: 08/10/21 11:35

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-66942-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		20	5 mL	5 mL	173459	08/23/21 17:10	A9VE	ECL 2
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 Instrument ID: GC48		1			175006	08/28/21 11:20	N5Y3	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.289 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		100	5 mL	5 mL	173418	08/22/21 00:43	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 Instrument ID: GC48		10			175006	08/28/21 11:42	N5Y3	ECL 1

## Client Sample ID: S-5-I8

Lab Sample ID: 570-66942-104

Date Collected: 08/10/21 11:50

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.844 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		500	5 mL	5 mL	173459	08/23/21 20:36	A9VE	ECL 2
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 Instrument ID: GC48		5			175125	08/28/21 13:56	N5Y3	ECL 1

## Client Sample ID: S-7.5-I8

Lab Sample ID: 570-66942-105

Date Collected: 08/10/21 11:55

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		100	5 mL	5 mL	173418	08/22/21 01:30	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 Instrument ID: GC48		1			175125	08/28/21 14:17	N5Y3	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-10-I8

Lab Sample ID: 570-66942-106

Date Collected: 08/10/21 12:00

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-12.5-I8

Lab Sample ID: 570-66942-107

Date Collected: 08/10/21 12:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	Prep	3550C SGC			10.11 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			175125	08/28/21 15:00	N5Y3	ECL 1
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-5-H7

Lab Sample ID: 570-66942-109

Date Collected: 08/10/21 12:15

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										



# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-H7

Lab Sample ID: 570-66942-110

Date Collected: 08/10/21 12:20

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.942 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175125	08/28/21 16:05	N5Y3	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.669 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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	NWTPH-Dx Instrument ID: GC48		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

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		50	5 mL	5 mL	173459	08/23/21 19:49	A9VE	ECL 2
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 Instrument ID: GC48		1			175125	08/28/21 16:48	N5Y3	ECL 1

## Client Sample ID: S-2.5-I6

Lab Sample ID: 570-66942-113

Date Collected: 08/10/21 12:35

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		100	5 mL	5 mL	173418	08/22/21 05:27	P1R	ECL 2
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 Instrument ID: GC48		1			175125	08/28/21 17:09	N5Y3	ECL 1

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-5-I6

Lab Sample ID: 570-66942-114

Date Collected: 08/10/21 12:40

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 05:50	P1R	ECL 2
Instrument 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		10			175228	08/30/21 05:16	N1A	ECL 1
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.223 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 06:14	P1R	ECL 2
Instrument 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		1			175125	08/28/21 17:53	N5Y3	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-10-I6

Lab Sample ID: 570-66942-116

Date Collected: 08/10/21 12:50

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.804 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-12.5-I6

Lab Sample ID: 570-66942-117

Date Collected: 08/10/21 12:55

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-2.5-J7

Lab Sample ID: 570-66942-118

Date Collected: 08/10/21 13:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 07:25	P1R	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC48										

## Client Sample ID: S-5-J7

Lab Sample ID: 570-66942-119

Date Collected: 08/10/21 13:10

Matrix: Solid

Date Received: 08/12/21 10:15

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	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 07:48	P1R	ECL 2
Instrument ID: GC56										
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 19:20	N5Y3	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-7.5-J7

Lab Sample ID: 570-66942-120

Date Collected: 08/10/21 13:15

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.34 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-10-J7

Lab Sample ID: 570-66942-121

Date Collected: 08/10/21 13:20

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.57 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		100	5 mL	5 mL	173725	08/23/21 20:08	P1R	ECL 2
Instrument ID: GC22										
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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	173725	08/24/21 10:12	P1R	ECL 2
Instrument ID: GC22										
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/29/21 02:20	N5Y3	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-2.5-J5

Lab Sample ID: 570-66942-124

Date Collected: 08/10/21 13:35

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-5-J5

Lab Sample ID: 570-66942-125

Date Collected: 08/10/21 13:40

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-7.5-J5

Lab Sample ID: 570-66942-126

Date Collected: 08/10/21 13:45

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1000	5 mL	5 mL	173725	08/24/21 11:29	P1R	ECL 2
Instrument ID: GC22										
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
Instrument ID: GC48										

## Client Sample ID: S-10-J5

Lab Sample ID: 570-66942-127

Date Collected: 08/10/21 13:50

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-12.5-J5

Lab Sample ID: 570-66942-128

Date Collected: 08/10/21 13:55

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.114 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-2.5-H5

Lab Sample ID: 570-66942-129

Date Collected: 08/10/21 14:00

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-5-H5

Lab Sample ID: 570-66942-130

Date Collected: 08/10/21 14:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.547 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 23:08	P1R	ECL 2
Instrument ID: GC22										
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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		100	5 mL	5 mL	173725	08/23/21 23:34	P1R	ECL 2
Instrument ID: GC22										
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/29/21 05:59	N5Y3	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-10-H5

Lab Sample ID: 570-66942-132

Date Collected: 08/10/21 14:15

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-12.5-H5

Lab Sample ID: 570-66942-133

Date Collected: 08/10/21 14:20

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-14.5-H5

Lab Sample ID: 570-66942-134

Date Collected: 08/10/21 14:25

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		100	5 mL	5 mL	173340	08/21/21 20:22	A9VE	ECL 2
Instrument ID: GC56										
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	173229	08/20/21 17:02	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175125	08/29/21 07:26	N5Y3	ECL 1
Instrument ID: GC48										

## 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 Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		100	5 mL	5 mL	173340	08/21/21 20:46	A9VE	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC48										

## Client Sample ID: S-10-D1 DUP

Lab Sample ID: 570-66942-137

Date Collected: 08/09/21 16:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-66942-1

## Client Sample ID: S-10-F9 DUP

Lab Sample ID: 570-66942-138

Date Collected: 08/10/21 11:30

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.476 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 21:33	A9VE	ECL 2
Instrument ID: GC56										
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		10			175228	08/30/21 07:06	N1A	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 Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	173340	08/21/21 21:57	A9VE	ECL 2
Instrument ID: GC56										
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
Instrument 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 Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		100	5 mL	5 mL	173454	08/23/21 20:26	P1R	ECL 2
Instrument ID: GC25										
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		5			175125	08/29/21 09:16	N5Y3	ECL 1
Instrument ID: GC48										

## 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 Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
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
Instrument 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
Instrument 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



# Accreditation/Certification Summary

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

Job ID: 570-66942-1

## 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

1

2

3

4

5

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7

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# Method Summary

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

Job ID: 570-66942-1

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
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

## 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](mailto:laina.cole@cardno.com) Web [www.cardno.com](http://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.

Thank you.

**Cecile de Guia**  
Project Manager

Eurofins Calscience LLC  
Phone: 714-895-5494

E-mail: [Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)  
[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [570-236269]  
Attachments: 3

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## de Guia, Cecile

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**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](mailto:keri.chappell@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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**From:** de Guia, Cecile <Cecile.deGuia@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>

**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](mailto:keri.chappell@cardno.com)>

**Cc:** Cam Penner-Ash <[cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)>; Laina Cole <[laina.cole@cardno.com](mailto:laina.cole@cardno.com)>; Bobby Thompson <[robert.thompson@cardno.com](mailto:robert.thompson@cardno.com)>

**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](mailto:keri.chappell@cardno.com)>

**Sent:** Monday, August 16, 2021 9:40 AM

**To:** de Guia, Cecile <[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)>

**Cc:** Cam Penner-Ash <[cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)>; Laina Cole <[laina.cole@cardno.com](mailto:laina.cole@cardno.com)>; Bobby Thompson <[robert.thompson@cardno.com](mailto: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.

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](mailto:keri.chappell@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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---

**From:** Cecile de Guia <[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)>  
**Sent:** Friday, August 13, 2021 4:45 PM  
**To:** Cam Penner-Ash <[cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)>; Keri Chappell <[keri.chappell@cardno.com](mailto:keri.chappell@cardno.com)>; Laina Cole <[laina.cole@cardno.com](mailto:laina.cole@cardno.com)>; Bobby Thompson <[robert.thompson@cardno.com](mailto:robert.thompson@cardno.com)>  
**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 containerrrs 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](mailto:Cecile.deGuia@eurofinset.com)  
[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [570-231164]  
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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](mailto:robert.thompson@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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**From:** de Guia, Cecile <Cecile.deGuia@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](mailto:Cecile.deGuia@eurofinset.com)  
Website: [www.eurofinsUS.com/Calscience](http://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!





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 AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

66942

CHAIN OF CUSTODY RECORD  
 DATE: 8/10/2021  
 PAGE: 1 OF 8

ExxonMobil Engr Jennifer Sedlacek

LABORATORY CLIENT: **Cardno**  
 ADDRESS: **309 South Cloverdale Street Unit A13**  
 CITY: **Seattle, WA 98108**  
 TEL: **206-510-5855** FAX: **N/A** PROJECT CONTACT: **Robert Thompson**  
 TURNAROUND TIME:  24 HR  48 HR  5 DAYS  10 DAYS  
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY):  ARCHIVE SAMPLES UNTIL \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 SPECIAL INSTRUCTIONS:  RWQCB REPORTING

GLOBAL ID # COBLET LOG CODE: \_\_\_\_\_ P O 0314476040 Agreement# A2604415  
 PROJECT CONTACT: **Robert Thompson**  
 SAMPLER(S): **Paul Prevou, John Considine**  
 REQUESTED ANALYSIS: \_\_\_\_\_  
 LAB USE ONLY: \_\_\_\_\_  
 COOLER RECEIPT: \_\_\_\_\_  
 Temp: \_\_\_\_\_

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	MAT. RIX	Perform M/MS/SD	NMT-PH-Gx TPH as Gasoline	NMT-PH-Dx TPH as Diesel and Motor Oil	CONTAINER TYPE
			DATE	TIME						
	<del>S-2-5</del>		8/1/2021	0935	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-5-C2	C2	8/9/2021	0935	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-7-5-C2	C2	8/9/2021	0940	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-10-C2	C2	8/9/2021	0945	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-12-5-C2	C2	8/9/2021	0950	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	<del>S-2-3</del>		<del>8/1/2021</del>							
	S-5-C4	C4	8/9/2021	0955	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-7-5-C4	C4	8/9/2021	1000	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-10-C4	C4	8/9/2021	1005	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-12-5-C4	C4	8/9/2021	1010	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-2-5-C6	C6	8/9/2021	1010	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-5-C6	C6	8/9/2021	1100	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-7-5-C6	C6	8/9/2021	1050	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-10-C6	C6	8/9/2021	1105	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	<del>S-2-5</del>		<del>8/1/2021</del>							
	S-2-5-C8	C8	8/9/2021	1135	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-5-C8	C8	8/9/2021	1140	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-7-5-C8	C8	8/9/2021	1145	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-10-C8	C8	8/9/2021	1150	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-12-5-C8	C8	8/9/2021	1155	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	Trip Blank	Trip Blank	8/1/2021			S				
	Trip Blank	Trip Blank	8/1/2021			S				

Relinquished by (Signature): *Paul Prevou*  
 Relinquished by (Signature): *Paul Prevou*  
 Relinquished by (Signature): *Paul Prevou*  
 Received by (Signature): *E CD*  
 Received by (Signature): *E CD*  
 Received by (Signature): *E CD*  
 Date, & Time: 8/10/2021 4:15:00 PM  
 Date, & Time: 8-12-2021 10:15  
 Date, & Time: \_\_\_\_\_



570-66942 Chain of Custody

4.9/4.5 4.5/4.1 4.4/4.0 5.0/4.6 4.2/3.8 5.0/6

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7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
CalScience TEL: (714) 896-6494 FAX: (714) 894-7501

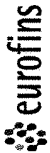
**Site Name** Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
 DATE 8/10/2021  
 PAGE 2 OF 8

**ExxonMobil Engr** Jennifer Sedlactek

LABORATORY CLIENT <b>Cardno</b>		GLOBAL ID # COELET LOG CODE: P O 0314476040 Agreement# A2604415								
ADDRESS 309 South Cloverdale Street Unit A13		PROJECT CONTACT <b>Robert Thompson</b>								
CITY Seattle, WA 98108		SAMPLER(S) <b>Paul Prevou, John Considine</b>								
TEL 206-510-5855		LAB USE ONLY COOLER RECEIPT								
TURNAROUND TIME N/A		TEST #								
<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ____ / ____ / ____		REQUESTED ANALYSIS								
SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in ug/L Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-cash@cardno.com										
LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	MAT. RIX	Perform MS/MSD	NMTPH-Gx TPH as Gasoline	NMTPH-Dx TPH as Diesel and Motor Oil	CONTAINER TYPE
			DATE	TIME						
	28 S-25-D9	D9	8/9/2021	12:00	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	19 S-5-D9	D9	8/9/2021	12:05	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	20 S-7.5-D9	D9	8/9/2021	12:10	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	21 S-10-D9	D9	8/9/2021	12:15	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	22 S-12.5-D9	D9	8/9/2021	12:20	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	23 S-2.5-E8	E8	8/9/2021	12:25	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	24 S-5-E8	E8	8/9/2021	12:30	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	25 S-7.5-E8	E8	8/9/2021	12:35	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	26 S-10-E8	E8	8/9/2021	12:40	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	27 S-12.5-E8	E8	8/9/2021	12:45	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	28 S-2.5-D7	D7	8/9/2021	12:50	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	29 S-5-D7	D7	8/9/2021	12:55	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	30 S-7.5-D7	D7	8/9/2021	13:00	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	31 S-10-D7	D7	8/9/2021	13:05	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	32 S-12.5-D7	D7	8/9/2021	13:10	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	33 S-2.5-E6	E6	8/9/2021	13:15	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	34 S-5-E6	E6	8/9/2021	13:50	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	35 S-7.5-E6	E6	8/9/2021	13:55	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	36 S-10-E6	E6	8/9/2021	14:00	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	37 S-12.5-E6	E6	8/9/2021	14:05	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	Trip Blank	Trip Blank	8/ / 2021			S				
	EQBL	EQBL	8/ / 2021			S				
Relinquished by (Signature) <b>Paul Prevou</b>		Received by (Signature) <b>FedEx</b>		Date & Time: 8/10/2021 4 15 00 PM						
Relinquished by (Signature)		Received by (Signature)		Date & Time: 8-12-2021 10:15						
Relinquished by (Signature)		Received by (Signature)		Date & Time:						





7440 LINCOLN WAY  
 Calsciencé GARDEN GROVE, CA 92841-1432  
 TEL: (714) 895-5494 FAX: (714) 894-7501

**Site Name** Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
 DATE 8/10/2021  
 PAGE 3 OF 9

ExxonMobil Engr Jennifer Sedlachek

LABORATORY CLIENT: **Cardno**  
 ADDRESS: 309 South Cloverdale Street Unit A13  
 CITY: Seattle, WA 98108  
 TEL: 206-510-5855 FAX: N/A  
 TURNAROUND TIME: robert.thompson@cardno.com  
 SAME DAY  24 HR  48 HR  72 HR  10 DAYS  
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  
 RWQCB REPORTING  ARCHIVE SAMPLES UNTIL / /

SPECIAL INSTRUCTIONS:  
 Required EIM and Cardno EDDs, Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method.  
 Report to: laina.cole@cardno.com, robert.thompson@cardno.com  
 All units in ug/L  
 Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT. RIX	NO. OF CONT.	CONTAINER TYPE	Perform M/MSD	NMT/PH-Gx TPH as Gasoline	NMT/PH-Dx TPH as Diesel and Motor Oil
			DATE	TIME						
	38	S-2.5-D5	8/9/2021	1410	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	39	S-5-D5	8/9/2021	1415	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	40	S-7.5-D5	8/9/2021	1420	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	41	S-10-D5	8/9/2021	1425	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	42	S-12.5-D5	8/9/2021	1430	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	43	S-2.5-E4	8/9/2021	1435	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	44	S-5-E4	8/9/2021	1440	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	45	S-7.5-E4	8/9/2021	1445	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	46	S-10-E4	8/9/2021	1450	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	47	S-12.5-E4	8/9/2021	1455	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	48	S-2.5-D3	8/9/2021	1500	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	49	S-5-D3	8/9/2021	1505	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	50	S-7.5-D3	8/9/2021	1510	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	51	S-10-D3	8/9/2021	1515	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	52	S-12.5-D3	8/9/2021	1520	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	53	S-2.5-E2	8/9/2021	1525	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	54	S-5-E2	8/9/2021	1530	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	55	S-7.5-E2	8/9/2021	1535	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	56	S-10-E2	8/9/2021	1540	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	57	S-12.5-E2	8/9/2021	1545	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
		Trip Blank								
		Trip Blank	8/ /2021		S					
		Trip Blank	<del>8/ /2021</del>		<del>S</del>					

GLOBAL ID # COELT LOG CODE: P O 0314476040 Agreement# A2604415  
 PROJECT CONTACT: Robert Thompson  
 SAMPLER(S): Paul Prevou, John Considine  
 REQUESTED ANALYSIS

Relinquished by (Signature) *Paul Prevou*  
 Relinquished by (Signature) *John Considine*  
 Relinquished by (Signature) *Jennifer Sedlachek*

Received by (Signature) FedEx  
 Received by (Signature) *ECB*  
 Received by (Signature) *ECB*

Date & Time: 8/10/2021 4:15:00 PM  
 Date & Time: 8-12-2021 10:15  
 Date & Time:





66942



7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
Calsciencie  
TEL: (714) 896-6494 . FAX: (714) 894-7501

**Site Name** Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE 8/10/2021  
PAGE 5 OF 8

ExxonMobil Engr Jennifer Sedlitzek

LABORATORY CLIENT  
**Cardno**  
ADDRESS 309 South Cloverdale Street Unit A13  
CITY Seattle, WA 98108  
TEL 206-510-5855  
TURNAROUND TIME N/A  
 SAME DAY  24 HR  48 HR  72 HR  10 DAYS  
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  
 RWQCB REPORTING  ARCHIVE SAMPLES UNTIL / /  
SPECIAL INSTRUCTIONS:  
Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method.  
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, robert.thompson@cardno.com  
All units in ug/L  
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner.cash@cardno.com

GLOBAL ID # COELT LOG CODE: P O 0314476040 Agreement# A2604415  
PROJECT CONTACT Robert Thompson  
SAMPLER(S) Paul Prevou, John Considine

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	MAT. RIX	Perform MS/MSD	NMTPH-Gx TPH as Gasoline	NMTPH-Dx TPH as Diesel and Motor Oil	CONTAINER TYPE	REQUESTED ANALYSIS
			DATE	TIME							
	63 S-2.5-G2	G2	8/10/2021	0745	4	S	X			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	64 S-5-G2	G2	8/10/2021	0750	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	65 S-7.5-G2	G2	8/10/2021	0755	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	66 S-10-G2	G2	8/10/2021	0755	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	67 S-12.5-G2	G2	8/10/2021	0800	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	68 S-2.5-F3	F3	8/10/2021	0805	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	69 S-5-F3	F3	8/10/2021	0810	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	70 S-10-F3	F3	8/10/2021	0815	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	71 S-12.5-F3	F3	8/10/2021	0820	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	72 S-2.5-G4	G4	8/10/2021	0825	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	73 S-5-G4	G4	8/10/2021	0830	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	74 S-7.5-G4	G4	8/10/2021	0835	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	75 S-10-G4	G4	8/10/2021	0840	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	76 S-12.5-G4	G4	8/10/2021	0845	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	77 S-2.5-F5	F5	8/10/2021	0915	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	78 S-5-F5	F5	8/10/2021	0920	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	79 S-7.5-F5	F5	8/10/2021	0925	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	80 S-10-F5	F5	8/10/2021	0930	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	81 S-12.5-F5	F5	8/10/2021	0935	4	S				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
MULTIPLE DUPLICATE SAMPLES IN COOLERS BUT MISSING FROM COC - PLEASE ADD TO COC UPON RECEIPT AT LABORATORY. SAME ANALYSES.											
* FEMALE / CALL KEELI CHAPPEL WITH QUESTIONS NWTPH / NWTPH / NWTPH											
707-338-8015 keel.chappel@cardno.com											
Date, & Time: 8/10/2021 4:15:00 PM											
Date, & Time: 8-12-2021 10:15											
Date, & Time: 10:15											

Relinquished by (Signature) Paul Prevou  
Received by (Signature) FedEx  
Relinquished by (Signature) Jennifer Sedlitzek  
Received by (Signature) Jennifer Sedlitzek

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66942



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 AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE 8/10/2021  
PAGE 6 OF 8

**ExxonMobil Engr** Jennifer Sedlitzek

LABORATORY CLIENT: <b>Cardno</b>		GLOBAL ID # COBELT LOG CODE:		P O 0314476040 Agreement# A2604415	
ADDRESS: 309 South Cloverdale Street Unit A13		PROJECT CONTACT: <b>Robert Thompson</b>		LAB USE ONLY: COOLER RECEIPT	
CITY: Seattle, WA 98108		PROJECT CONTACT: <b>Robert Thompson</b>		Temp: <input type="checkbox"/>	
TEL: 206-510-5855		SAMPLER(S): <b>Paul Prevou, John Considine</b>			
TURNAROUND TIME: N/A		robot.thompson@cardno.com			
<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / /		Perform M5/MSD NMT/PH-Gx TPH as Gasoline NMT/PH-Dx TPH as Diesel and Motor Oil			
<b>SPECIAL INSTRUCTIONS:</b> Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in ug/L Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com					
LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT.
			DATE	TIME	
	S-2.5-66	G6	8/10/2021	0940	4
	S-5-66	G6	8/10/2021	0945	4
	S-7.5-66	G6	8/10/2021	0950	4
	S-10-66	G6	8/10/2021	0955	4
	S-12.5-66	G6	8/10/2021	1000	4
	S-2.5-67	F7	8/10/2021	1005	4
	S-5-67	F7	8/10/2021	1010	4
	S-7.5-67	F7	8/10/2021	1015	4
	S-10-67	F7	8/10/2021	1020	4
	S-12.5-67	F7	8/10/2021	1025	4
	S-2.5-68	G8	8/10/2021	1035	4
	S-5-68	G8	8/10/2021	1040	4
	S-7.5-68	G8	8/10/2021	1045	4
	S-10-68	G8	8/10/2021	1050	4
	S-12.5-68	G8	8/10/2021	1055	4
	S-2.5-69	F9	8/10/2021	1100	4
	S-5-69	F9	8/10/2021	1105	4
	S-7.5-69	F9	8/10/2021	1110	4
	S-10-69	F9	8/10/2021	1115	4
	S-12.5-69	F9	8/10/2021	1120	4
	Trip Blank	Trip Blank			
	Trip Blank	Trip Blank			
Relinquished by (Signature): <i>Paul Prevou</i>		Relinquished by (Signature): <i>Paul Prevou</i>		Received by (Signature): <i>Paul Prevou</i>	
Relinquished by (Signature):		Relinquished by (Signature):		Received by (Signature):	
Relinquished by (Signature):		Relinquished by (Signature):		Received by (Signature):	

**REQUESTED ANALYSIS**

**CONTAINER TYPE**

Date & Time: 8/10/2021 4:15:00 PM  
Date & Time: 8-12-2021 10:15  
Date & Time:

*ECF*





68942



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 AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

CHAIN OF CUSTODY RECORD

DATE: 8/10/2021  
PAGE: 7 OF 8

ExxonMobil Engr. Jennifer Sedlachek

GLOBAL ID # COBELT LOG CODE: P O 0314476040 Agreement# A2604415

LABORATORY CLIENT: **Cardno**  
ADDRESS: **309 South Cloverdale Street Unit A13**  
CITY: **Seattle, WA 98108**  
TEL: **206-510-5855** FAX: **N/A** **robert.thompson@cardno.com**  
 SAME DAY  24 HR  48 HR  72 HR  10 DAYS  
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  
 RWQCB REPORTING  ARCHIVE SAMPLES UNTIL \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

PROJECT CONTACT: **Robert Thompson**  
SAMPLER(S): **Paul Prevou, John Considine**  
LAB: USE ONLY  
COOLER RECEIPT  
Temp: \_\_\_\_\_ °C

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS:  
Required EIM and Cardno EDDs. Perform Silica Gal Cleanup - 0.5 grams. Group results by sample, not by analysis method.  
Report to: [laina.cole@cardno.com](mailto:laina.cole@cardno.com), [robert.thompson@cardno.com](mailto:robert.thompson@cardno.com), and [cameron.paenner-ash@cardno.com](mailto:cameron.paenner-ash@cardno.com)  
All units in ug/L  
Report to: [laina.cole@cardno.com](mailto:laina.cole@cardno.com), [robert.thompson@cardno.com](mailto:robert.thompson@cardno.com), and [cameron.paenner-ash@cardno.com](mailto:cameron.paenner-ash@cardno.com)

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT.	Perform M/MSD NMT/PH-Gx - TPH as Gasoline	Motor Oil NMT/PH-Dx - TPH as Diesel and NMT/PH-Gx - TPH as Gasoline	CONTAINER TYPE
			DATE	TIME				
	103 S-2.5-18	H8	8/10/2021	1445	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	104 S-5-18	H8	8/10/2021	1150	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	105 S-7.5-18	H8	8/10/2021	1155	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	106 S-10-18	H8	8/10/2021	1200	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	107 S-12.5-18	H7	8/10/2021	1205	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	108 S-2.5-H7	H7	8/10/2021	1215	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	109 S-5-H7	H7	8/10/2021	1215	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	110 S-7.5-H7	H7	8/10/2021	1220	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	111 S-10-H7	H7	8/10/2021	1225	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	112 S-12.5-H7	H7	8/10/2021	1230	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	113 S-2.5-H6	H6	8/10/2021	1235	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	114 S-5-H6	H6	8/10/2021	1240	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	115 S-7.5-H6	H6	8/10/2021	1245	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	116 S-10-H6	H6	8/10/2021	1250	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	117 S-12.5-H6	H7	8/10/2021	1255	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	118 S-2.5-H7	H7	8/10/2021	1305	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	119 S-5-H7	H7	8/10/2021	1310	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	120 S-7.5-H7	H7	8/10/2021	1315	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	121 S-10-H7	H7	8/10/2021	1320	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	122 S-12.5-H7	H7	8/10/2021	1325	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	123 S-14.5-H6	H6	8/10/2021	1330	4			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

Relinquished by (Signature):

**Paul Prevou** Received by (Signature):   
FedEx  
Relinquished by (Signature):

Relinquished by (Signature):

Date, & Time: 8/10/2021 4:15:00 PM  
Date, & Time: 8-12-2021 10:15  
Date, & Time:



66942



7440 LINCOLN WAY  
 GARDEN GROVE, CA 92841-1432  
 Calscience TEL: (714) 896-6494 FAX: (714) 894-7501

**Site Name** Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
 DATE: 8/10/2021  
 PAGE: 8 OF 8

**ExxonMobil Engr** Jennifer Sedlachek

LABORATORY CLIENT <b>Cardno</b>		GLOBAL ID # COELT LOG CODE		P O 0314476040 Agreement# A2604415						
ADDRESS 309 South Cloverdale Street Unit A13		PROJECT CONTACT <b>Robert Thompson</b>		LAB USE ONLY						
CITY Seattle, WA 98108		SAMPLER(S) <b>Paul Prevou, John Considine</b>		COOLER RECEIPT						
TEL 206-510-5855		TURNAROUND TIME N/A		TEMP °C						
<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ___/___/___		<b>REQUESTED ANALYSIS</b>								
SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in ug/L Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com										
LAB USE ONLY	SAMPLE ID	Field Point Name	DATE	SAMPLING TIME	MAT. RUX	NO. OF CONT	Perfrom MSMSD	NWTPH-Gx TPH as Gasoline	NWTPH-Dx TPH as Diesel and Motor Oil	CONTAINER TYPE
	124 S-2.5-H5	J5	8/10/2021	1325	S	4	X			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	125 S-5-H5	J5	8/10/2021	1340	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	126 S-7.5-H5	J5	8/10/2021	1345	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	127 S-10-H5	J5	8/10/2021	1350	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	128 S-12.5-H5	J5	8/10/2021	1355	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	129 S-2.5-H1	H5	8/10/2021	1400	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	130 S-5-H5	H5	8/10/2021	1405	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	131 S-7.5-H5	H5	8/10/2021	1410	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	132 S-10-H5	H5	8/10/2021	1415	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	133 S-12.5-H5	H5	8/10/2021	1420	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-2.5-		8/10/2021		S	4				
	S-5-		8/10/2021		S	4				
	S-7.5-		8/10/2021		S	4				
	S-10-		8/10/2021		S	4				
	S-12.5-		8/10/2021		S	4				
	S-2.5-		8/10/2021		S	4				
	S-5-		8/10/2021		S	4				
	S-7.5-		8/10/2021		S	4				
	S-10-		8/10/2021		S	4				
	S-12.5-		8/10/2021		S	4				
	134 S-12.5-H5	H5	8/10/2021	1425	S	4	X			2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	Trip Blank EQB1	Trip Blank EQB1	8/10/2021		S					
	Trip Blank EQB1	Trip Blank EQB1	8/10/2021		S					
Relinquished by (Signature) <b>Paul Prevou</b>		Relinquished by (Signature) <i>Paul R</i>		Received by (Signature) <b>FedEx</b>		Date, & Time 8/10/2021 4:15:00 PM		Date, & Time 8-12-2021 10:15		
Relinquished by (Signature) <i>Paul R</i>		Relinquished by (Signature) <i>Paul R</i>		Received by (Signature) <i>Paul R</i>		Date, & Time 8-12-2021 10:15		Date, & Time 8-12-2021 10:15		

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ORIGIN ID:BBEA (817) 965-6081  
PAUL PREVOU  
CARDNO  
308 S CLOVERDALE ST  
SEATTLE, WA 98108  
UNITED STATES US

RT 3

FedEx  
TRK# 8158 1729 7776

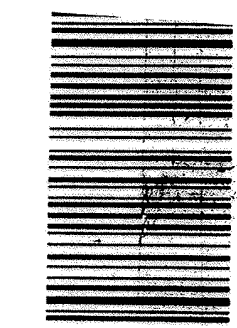
0215 8158 1729 7776

92 APVA 92 APVA

CALSCIENCE ENV LAB  
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 896-6484  
REF 1  
DEPT 1



CUSTODY SEAL



CUSTODY SEAL

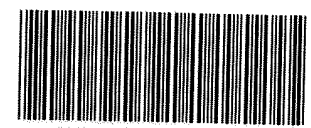
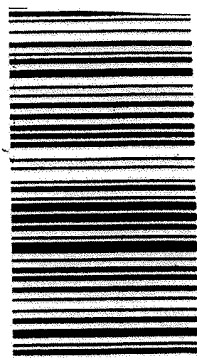


ENVIRONMENTAL SUPPLY  
www.essvial.com

1 of 2

TRK# 8106 8478 7356  
0200 ## MASTER ##

92 APVA



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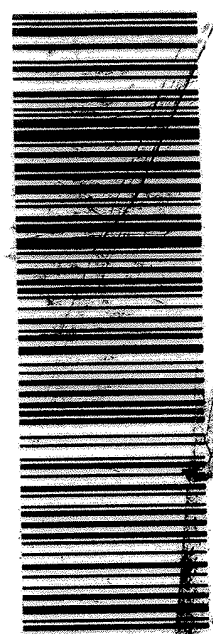
570-66942 Waybill

FedEx  
TRK# 8135 3322 8223

FedEx  
TRK# 8158 1729 7765

THU - 12 AUG 10:30  
PRIORITY OVERNIGHT

NSF  
92841  
CA-US SNA



CUSTODY SEAL



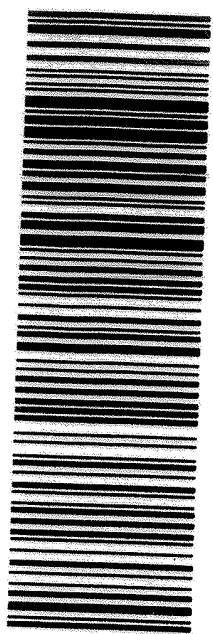
ENVIRONMENTAL SUPPLY  
www.essvial.com 800-233-8425

FedEx  
TRK# 8158 1729 7787

THU - 12 AUG 10:30  
PRIORITY OVERNIGHT

NSR A  
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56DJ1/BRF3/FE9R

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# Login Sample Receipt Checklist

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.	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	

## 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

*Cecile de Guia*

---

Authorized for release by:  
8/26/2021 3:16:03 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66884-1

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



# Definitions/Glossary

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

Job ID: 570-66884-1

## Glossary

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



# Case Narrative

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

Job ID: 570-66884-1

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## Job ID: 570-66884-1

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### 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.

#### 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 2.6° 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 is 14:15 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.

# Detection Summary

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

Job ID: 570-66884-1

## Client Sample ID: S-2.5-B1

## Lab Sample ID: 570-66884-1

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: 570-66884-2

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: 570-66884-3

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: 570-66884-4

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: 570-66884-5

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: 570-66884-6

No Detections.

## Client Sample ID: S-5-A2

## Lab Sample ID: 570-66884-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	250		110	mg/Kg	500	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	340		6.4	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	45		6.4	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-A2

## Lab Sample ID: 570-66884-8

Analyte	Result	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

## Client Sample ID: S-10-A2

## Lab Sample ID: 570-66884-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	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

# Detection Summary

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

Job ID: 570-66884-1

## Client Sample ID: S-10-A2 (Continued)

## Lab Sample ID: 570-66884-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	260		5.9	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	44		5.9	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-A2

## Lab Sample ID: 570-66884-10

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 Sample ID: 570-66884-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	110		5.5	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-A4

## Lab Sample ID: 570-66884-12

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 Cleanup
TPH as Motor Oil Range	1500		72	mg/Kg	10	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-A4

## Lab Sample ID: 570-66884-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	72		29	mg/Kg	250	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	270		6.2	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	74		6.2	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-A4

## Lab Sample ID: 570-66884-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.42		0.38	mg/Kg	1	☒	NWTPH-Gx	Total/NA

## Client Sample ID: S-14.5-A2

## Lab Sample ID: 570-66884-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	11		6.3	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-66884-1

## 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

### 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	☼	08/13/21 13:54	08/24/21 05:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			08/13/21 13:54	08/24/21 05:36	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		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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		50 - 150			08/21/21 08:23	08/24/21 03:31	1

## 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	☼	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

Date Collected: 08/11/21 13:20

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)	5.4		0.23	mg/Kg	☼	08/13/21 13:54	08/24/21 06:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150			08/13/21 13:54	08/24/21 06:00	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	20		6.2	mg/Kg	☼	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	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		50 - 150			08/21/21 08:23	08/24/21 04:15	1

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# Client Sample Results

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

Job ID: 570-66884-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.42		0.13	mg/Kg	☼	08/13/21 13:54	08/24/21 07:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61		50 - 150	08/13/21 13:54	08/24/21 07:11	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		7.2	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		50 - 150	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

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)	0.28		0.21	mg/Kg	☼	08/13/21 13:54	08/24/21 07:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150	08/13/21 13:54	08/24/21 07:34	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		6.1	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 (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.26	mg/Kg	☼	08/13/21 13:54	08/24/21 07:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150	08/13/21 13:54	08/24/21 07:58	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		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
n-Octacosane (Surr)	106		50 - 150	08/21/21 08:23	08/24/21 05:18	1

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-66884-1

## 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

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)	250		110	mg/Kg	☼	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

### 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	340		6.4	mg/Kg	☼	08/21/21 08:23	08/24/21 06:24	1
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	1

## Client Sample ID: S-7.5-A2

Date Collected: 08/11/21 14:00

Date Received: 08/12/21 10:50

## Lab Sample ID: 570-66884-8

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel 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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	135		50 - 150	08/21/21 08:23	08/25/21 12:04	10

## Client Sample ID: S-10-A2

Date Collected: 08/11/21 14:05

Date Received: 08/12/21 10:50

## Lab Sample ID: 570-66884-9

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)	76		22	mg/Kg	☼	08/13/21 13:54	08/24/21 15:09	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150	08/13/21 13:54	08/24/21 15:09	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	260		5.9	mg/Kg	☼	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

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-66884-1

## Client Sample ID: S-12.5-A2

Lab Sample ID: 570-66884-10

Date Collected: 08/11/21 14:10

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)	570		140	mg/Kg	☼	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

### 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		64	mg/Kg	☼	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

## Client Sample ID: S-2.5-A4

Lab Sample ID: 570-66884-11

Date Collected: 08/11/21 14:20

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)	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 - 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 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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150	08/21/21 08:23	08/24/21 07:49	1

## Client Sample ID: S-5-A4

Lab Sample ID: 570-66884-12

Date Collected: 08/11/21 14:25

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)	300		16	mg/Kg	☼	08/13/21 13:54	08/24/21 14:43	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		50 - 150	08/13/21 13:54	08/24/21 14:43	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	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

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-66884-1

## Client Sample ID: S-10-A4

Date Collected: 08/11/21 14:30

Date Received: 08/12/21 10:50

## Lab Sample ID: 570-66884-13

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)	72		29	mg/Kg	☼	08/13/21 13:54	08/24/21 17:17	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150	08/13/21 13:54	08/24/21 17:17	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	1
TPH as Motor Oil Range	74		6.2	mg/Kg	☼	08/21/21 08:23	08/24/21 08:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150	08/21/21 08:23	08/24/21 08:31	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.42		0.38	mg/Kg	☼	08/13/21 13:54	08/24/21 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150	08/13/21 13:54	08/24/21 17:14	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		7.8	mg/Kg	☼	08/21/21 08:23	08/24/21 08:52	1
TPH as Motor Oil Range	ND		7.8	mg/Kg	☼	08/21/21 08:23	08/24/21 08:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111		50 - 150	08/21/21 08:23	08/24/21 08:52	1

## Client Sample ID: S-14.5-A2

Date Collected: 08/11/21 14:15

Date Received: 08/12/21 10:50

## Lab Sample ID: 570-66884-15

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		0.13	mg/Kg	☼	08/13/21 13:54	08/24/21 09:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 150	08/13/21 13:54	08/24/21 09:55	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		6.3	mg/Kg	☼	08/21/21 08:23	08/24/21 09:15	1
TPH as Motor Oil Range	11		6.3	mg/Kg	☼	08/21/21 08:23	08/24/21 09:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150	08/21/21 08:23	08/24/21 09:15	1

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# Surrogate Summary

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

Job ID: 570-66884-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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
MB 570-173726/49	Method Blank	70
MB 570-173959/5	Method Blank	77

**Surrogate Legend**

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)

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

# 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)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (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

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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**  
**Matrix: Solid**  
**Analysis Batch: 173685**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/24/21 01:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150				08/24/21 01:18	1

**Lab Sample ID: LCS 570-173685/37**  
**Matrix: Solid**  
**Analysis Batch: 173685**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	1.786		mg/Kg		84	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		50 - 150				

**Lab Sample ID: LCSD 570-173685/38**  
**Matrix: Solid**  
**Analysis Batch: 173685**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.809		mg/Kg		85	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	106		50 - 150						

**Lab Sample ID: MB 570-173725/18**  
**Matrix: Solid**  
**Analysis Batch: 173725**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/23/21 19:16	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150				08/23/21 19:16	20

**Lab Sample ID: LCS 570-173725/15**  
**Matrix: Solid**  
**Analysis Batch: 173725**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.130		mg/Kg		100	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	91		50 - 150				

# QC Sample Results

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

Job ID: 570-66884-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-173725/16**  
**Matrix: Solid**  
**Analysis Batch: 173725**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.11	2.103		mg/Kg		100	77 - 128	1	16
<b>Surrogate</b>		<b>LCS</b>	<b>LCS</b>						
4-Bromofluorobenzene (Surr)		91	Qualifier						50 - 150

**Lab Sample ID: MB 570-173726/49**  
**Matrix: Solid**  
**Analysis Batch: 173726**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/24/21 14:18	20
<b>Surrogate</b>		<b>MB</b>	<b>MB</b>					
4-Bromofluorobenzene (Surr)		70	Qualifier			Prepared	Analyzed	Dil Fac
							08/24/21 14:18	20

**Lab Sample ID: LCS 570-173726/46**  
**Matrix: Solid**  
**Analysis Batch: 173726**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.11	1.810		mg/Kg		86	77 - 128
<b>Surrogate</b>		<b>LCS</b>	<b>LCS</b>				
4-Bromofluorobenzene (Surr)		69	Qualifier				50 - 150

**Lab Sample ID: LCSD 570-173726/47**  
**Matrix: Solid**  
**Analysis Batch: 173726**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.766		mg/Kg		83	77 - 128	2	16
<b>Surrogate</b>		<b>LCS</b>	<b>LCS</b>						
4-Bromofluorobenzene (Surr)		93	Qualifier						50 - 150

**Lab Sample ID: MB 570-173959/5**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/24/21 14:37	1
<b>Surrogate</b>		<b>MB</b>	<b>MB</b>					
4-Bromofluorobenzene (Surr)		77	Qualifier			Prepared	Analyzed	Dil Fac
							08/24/21 14:37	1

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# QC Sample Results

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

Job ID: 570-66884-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-173959/3**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.10	1.946		mg/Kg		93	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	112		50 - 150				

**Lab Sample ID: LCSD 570-173959/4**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.967		mg/Kg		93	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	91		50 - 150						

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-173318/1-A**  
**Matrix: Solid**  
**Analysis Batch: 173736**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173318**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/21/21 08:23	08/24/21 00:17	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/21/21 08:23	08/24/21 00:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
n-Octacosane (Surr)	114		50 - 150	08/21/21 08:23	08/24/21 00:17	1		

**Lab Sample ID: LCS 570-173318/21-A**  
**Matrix: Solid**  
**Analysis Batch: 173736**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173318**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	404.9		mg/Kg		101	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	406.2		mg/Kg		102	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	102		50 - 150				

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# QC Sample Results

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

Job ID: 570-66884-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-173318/22-A**  
**Matrix: Solid**  
**Analysis Batch: 173736**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173318**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	391.3		mg/Kg		98	71 - 139	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	99		50 - 150						

**Lab Sample ID: LCSD 570-173318/3-A**  
**Matrix: Solid**  
**Analysis Batch: 173736**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173318**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	435.9		mg/Kg		109	76 - 126	7	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	102		50 - 150						

**Lab Sample ID: 570-66884-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 173736**

**Client Sample ID: S-2.5-B1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173318**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	ND		429	439.3		mg/Kg	⊛	102	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	102		50 - 150						

**Lab Sample ID: 570-66884-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 173736**

**Client Sample ID: S-2.5-B1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173318**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	ND		430	436.6		mg/Kg	⊛	99	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	103		50 - 150						

**Lab Sample ID: 570-66884-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 173736**

**Client Sample ID: S-2.5-B1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173318**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	ND		431	488.5		mg/Kg	⊛	113	37 - 175	11	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	104		50 - 150								

# QC Sample Results

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

Job ID: 570-66884-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-66884-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 173736**

**Client Sample ID: S-2.5-B1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173318**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	ND		431	457.9		mg/Kg	✱	104	71 - 174	5	20
<b>Surrogate</b>	<b>MSD</b>	<b>MSD</b>									
<i>n</i> -Octacosane (Surr)	105										50 - 150

- 1
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- 8
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- 14
- 15

# QC Association Summary

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

Job ID: 570-66884-1

## 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	

Eurofins Calscience LLC



# QC Association Summary

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

Job ID: 570-66884-1

## 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

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-66884-1

## GC Semi VOA (Continued)

### Analysis Batch: 173736 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-173318/3-A	Lab Control Sample Dup	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 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	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

# Lab Chronicle

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

Job ID: 570-66884-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.374 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
Instrument 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-7.5-B1

Lab Sample ID: 570-66884-3

Date Collected: 08/11/21 13:20

Matrix: Solid

Date Received: 08/12/21 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-66884-1

## Client Sample ID: S-12.5-B1

Lab Sample ID: 570-66884-5

Date Collected: 08/11/21 13:30

Matrix: Solid

Date Received: 08/12/21 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			173736	08/24/21 04:57	A1W	ECL 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.258 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			173736	08/24/21 05:18	A1W	ECL 1

## Client Sample ID: S-5-A2

Lab Sample ID: 570-66884-7

Date Collected: 08/11/21 13:55

Matrix: Solid

Date Received: 08/12/21 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			173736	08/24/21 06:24	A1W	ECL 1

## Client Sample ID: S-7.5-A2

Lab Sample ID: 570-66884-8

Date Collected: 08/11/21 14:00

Matrix: Solid

Date Received: 08/12/21 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC22		100	5 mL	5 mL	173725	08/24/21 02:08	P1R	ECL 2
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 Instrument ID: GC48	DL	10			173940	08/25/21 12:04	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-66884-1

**Client Sample ID: S-10-A2**  
**Date Collected: 08/11/21 14:05**  
**Date Received: 08/12/21 10:50**

**Lab Sample ID: 570-66884-9**  
**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			6.892 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173726	08/24/21 15:09	P1R	ECL 2
Instrument ID: GC22										
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
Instrument 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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.924 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
Instrument 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
Instrument ID: GC48										

**Client Sample ID: S-5-A4**  
**Date Collected: 08/11/21 14:25**  
**Date Received: 08/12/21 10:50**

**Lab Sample ID: 570-66884-12**  
**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			5.72 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-66884-1

## Client Sample ID: S-10-A4

## Lab Sample ID: 570-66884-13

Date Collected: 08/11/21 14:30

Matrix: Solid

Date Received: 08/12/21 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.173 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 17:14	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 08:52	A1W	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-14.5-A2

## Lab Sample ID: 570-66884-15

Date Collected: 08/11/21 14:15

Matrix: Solid

Date Received: 08/12/21 10:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-66884-1

## 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

1

2

3

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# Method Summary

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

Job ID: 570-66884-1

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
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



**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](mailto:paul.prevou@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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*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](mailto:robert.thompson@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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**From:** Cecile de Guia <[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)>  
**Sent:** Thursday, August 12, 2021 4:36 PM  
**To:** Cam Penner-Ash <[cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)>; Laina Cole <[laina.cole@cardno.com](mailto:laina.cole@cardno.com)>; Bobby Thompson <[robert.thompson@cardno.com](mailto: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 is 14:15 per label.

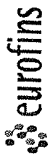
All samples were marked for MS/MSD, is this correct? % Moisture was not listed on the COC. Units listed on the COC is ug/L, samples are soils.

Please advise.

Thank you.

**Cecile de Guia**  
Project Manager

Eurofins Calscience LLC  
Phone: 714-895-5494



7440 LINCOLN WAY  
 CalScience GARDEN GROVE, CA 92841-1482  
 TEL: (714) 895-5494 FAX: (714) 894-7601

**Site Name**  
 Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name**  
 ExxonMobil ADC / 0314476040

ExxonMobil Engr. Jennifer Sedlachek

**CHAIN OF CUSTODY RECORD**

DATE: 8/11/2021  
 PAGE: 1 OF 2

66884

LABORATORY CLIENT: **Cardno**  
 ADDRESS: 309 South Cloverdale Street Unit A13  
 CITY: Seattle, WA 98108  
 TEL: 206-510-5855 FAX: N/A  
 TURNAROUND TIME: 24 HR  48 HR  72 HR  10 DAYS   
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY):  RWQCB REPORTING  ARCHIVE SAMPLES UNTIL / /  
 SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com. All units in ug/l. Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com

GLOBAL ID # COE LT LOG CODE:  
 PROJECT CONTACT: Robert Thompson  
 SAMPLERS: Robert Thompson



P O 0314476040 Agreement# A2604415

REQUESTED ANALYSIS

570-66884 Chain of Custody

LAB. USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MATERIAL	NO. OF CONT	Perform MS/MSD	Motor Oil	NWTPH-Dx TPH as Diesel and	NWTPH-Gx TPH as Gasoline	CONTAINER TYPE
			DATE	TIME							
	1 S-2.5-A1	B1	8/11/2021	1310	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	2 S-5-B1	B1	8/11/2021	1315	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	3 S-7.5-B1	B1	8/11/2021	1320	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	4 S-10-B1	B1	8/11/2021	1325	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	5 S-12.5-A1	A1	8/11/2021	1330	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	6 S-2.5-A2	A2	8/11/2021	1350	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	7 S-5-A2	A2	8/11/2021	1355	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	8 S-7.5-A2	A2	8/11/2021	1400	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	9 S-10-A2	A2	8/11/2021	1405	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	10 S-12.5-A2	A2	8/11/2021	1410	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	11 S-2.5-A1	A1	8/11/2021	1420	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	12 S-5-A1	A1	8/11/2021	1425	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	13 S-7.5-A1	A1	8/11/2021	1430	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	14 S-10-A1	A1	8/11/2021	1435	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	15 S-12.5-A1	A1	8/11/2021	1435	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-5		8/11/2021		S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-7.5		8/11/2021		S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-10		8/11/2021		S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-12.5		8/11/2021		S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-14.5-A2	A2	8/11/2021		S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	Top Blank	Top Blank	8/11/2021		S	4					
	EBL	EBL	8/11/2021		S	4					
	Paul Prevou	Paul Prevou	8/11/2021		S	4					



Date & Time: 8/11/2021 4 15 00 PM  
 Date & Time: 8/12/21 1015  
 Date & Time: Jan

**CUSTODY SEAL**



ENVIRONMENTAL SAMPLING SUPPLY  
www.essvial.com 800-233-8425

Date: 8/11/2021  
Signature: [Handwritten Signature]

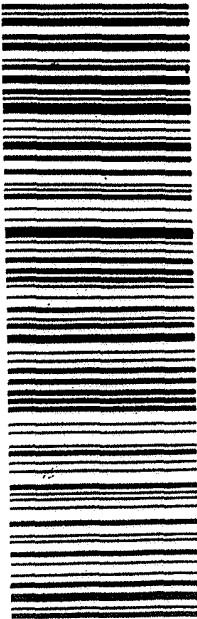
**Do Not**

**FedEx**  
TRK# 8135 3322 8212  
0200

**THU - 12 AUG 10:30A**  
**PRIORITY OVERNIGHT**

**NSR AHS**  
**92841**  
**CA-US SNA**

**92 APVA**



55DL1/BRF3/FE4R



570-66884 Waybill

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# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-66884-1

**Login Number: 66884**  
**List Number: 1**  
**Creator: Liao, Gineyau**

**List Source: Eurofins Calscience LLC**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## 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

*Cecile de Guia*

---

Authorized for release by:  
8/30/2021 6:06:34 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67093-1

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-I4	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
570-67093-33	S-14.5-H9	Solid	08/11/21 12:20	08/12/21 10:15



# Definitions/Glossary

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

Job ID: 570-67093-1

## 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.
α	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

# Case Narrative

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

Job ID: 570-67093-1

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## Job ID: 570-67093-1

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### 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) required dilution analysis using methanol extraction. However, the VOA vials with Methanol for both samples were dry and therefore, with client's 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.

#### 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 570-173726. 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 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.

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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67093-1

## Client Sample ID: S-2.5-I4

## Lab Sample ID: 570-67093-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.9		0.23	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	1300	F1	60	mg/Kg	10	✳	NWTPH-Dx	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

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	14		5.9	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-I4

## Lab Sample ID: 570-67093-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	6.9		5.6	mg/Kg	1	✳	NWTPH-Dx	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
TPH as Diesel Range	36		5.9	mg/Kg	1	✳	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	130		17	mg/Kg	1	✳	NWTPH-Dx	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
TPH as Gasoline (C4-C13)	230		11	mg/Kg	50	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	2300		30	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1000		30	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-6-H3

## Lab Sample ID: 570-67093-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	230		42	mg/Kg	200	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	93		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-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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67093-1

## Client Sample ID: S-7.5-H3 (Continued)

Lab Sample ID: 570-67093-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	11		5.9	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-H3

Lab Sample ID: 570-67093-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	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-H3

Lab Sample ID: 570-67093-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	46		14	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	53		14	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-I2

Lab Sample ID: 570-67093-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	170		9.6	mg/Kg	50	☒	NWTPH-Gx	Total/NA
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 Sample ID: 570-67093-12

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-I2

Lab Sample ID: 570-67093-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.3		0.22	mg/Kg	1	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	220		6.0	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	170		6.0	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-I2

Lab Sample ID: 570-67093-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	53		18	mg/Kg	50	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	1300		11	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	560		11	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67093-1

## Client Sample ID: S-12.5-I2

## Lab Sample ID: 570-67093-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	13		9.9	mg/Kg	20		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	*	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-J3

## Lab Sample ID: 570-67093-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.0		0.13	mg/Kg	1	*	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 Sample ID: 570-67093-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	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	*	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-J3

## Lab Sample ID: 570-67093-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	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 Sample ID: 570-67093-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	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	*	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-J3

## Lab Sample ID: 570-67093-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	93		16	mg/Kg	1	*	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	73		16	mg/Kg	1	*	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: DUP

## Lab Sample ID: 570-67093-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	110		14	mg/Kg	50	*	NWTPH-Gx	Total/NA
TPH as Diesel Range	130		6.1	mg/Kg	1	*	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67093-1

## Client Sample ID: DUP (Continued)

## Lab Sample ID: 570-67093-21

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: 570-67093-22

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: 570-67093-23

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: 570-67093-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	590		100	mg/Kg	500	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	13000		51	mg/Kg	5	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2700		51	mg/Kg	5	☒	NWTPH-Dx	Silica Gel Cleanup

## 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	1	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	1000		5.3	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	70		5.3	mg/Kg	1	☒	NWTPH-Dx	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 Cleanup
TPH as Motor Oil Range	4300		300	mg/Kg	50	☒	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67093-1

## Client Sample ID: S-10-H9

## Lab Sample ID: 570-67093-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2400		160	mg/Kg	500	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	28000		160	mg/Kg	20	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	4700		160	mg/Kg	20	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-H9

## Lab Sample ID: 570-67093-30

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	53		9.9	mg/Kg	20		NWTPH-Gx	Total/NA
TPH as Diesel Range	2000		32	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1200		32	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-14.5-J9

## Lab Sample ID: 570-67093-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.5		1.3	mg/Kg	1	✳	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 Sample ID: 570-67093-32

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: S-14.5-H9

## Lab Sample ID: 570-67093-33

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.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67093-1

**Client Sample ID: S-2.5-I4**

**Lab Sample ID: 570-67093-1**

Date Collected: 08/11/21 07:50

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)	4.9		0.23	mg/Kg	☼	08/13/21 13:54	08/24/21 18:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150			08/13/21 13:54	08/24/21 18:59	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	1300	F1	60	mg/Kg	☼	08/21/21 08:15	08/27/21 11:19	10
TPH as Motor Oil Range	450	F2 F1	60	mg/Kg	☼	08/21/21 08:15	08/27/21 11:19	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	92		50 - 150			08/21/21 08:15	08/27/21 11:19	10

**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

**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	☼	08/13/21 13:54	08/24/21 21:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		50 - 150			08/13/21 13:54	08/24/21 21:07	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	14		5.9	mg/Kg	☼	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**

Date Collected: 08/11/21 08:00

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		0.19	mg/Kg	☼	08/13/21 13:54	08/24/21 20:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150			08/13/21 13:54	08/24/21 20:41	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		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	1



# Client Sample Results

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

Job ID: 570-67093-1

## 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 Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.091	mg/Kg	☼	08/13/21 13:54	08/24/21 20:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		50 - 150			08/13/21 13:54	08/24/21 20:16	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	36		5.9	mg/Kg	☼	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	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		50 - 150			08/21/21 08:15	08/27/21 22:31	1

## 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

### 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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		50 - 150			08/13/21 13:54	08/24/21 21:32	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	130		17	mg/Kg	☼	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

Date Collected: 08/11/21 08:15

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-6

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)	230		11	mg/Kg	☼	08/13/21 13:54	08/24/21 18:08	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		50 - 150			08/13/21 13:54	08/24/21 18:08	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	2300		30	mg/Kg	☼	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)	87		50 - 150			08/21/21 08:15	08/27/21 23:10	5

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67093-1

## 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 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
4-Bromofluorobenzene (Surr)	58		50 - 150	08/13/21 13:54	08/24/21 23:53	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	93		5.8	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150	08/21/21 08:15	08/27/21 23:30	1

## Client Sample ID: S-7.5-H3

Date Collected: 08/11/21 08:25

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-8

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)	1.1		0.20	mg/Kg	☼	08/13/21 13:54	08/24/21 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		50 - 150	08/13/21 13:54	08/24/21 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	13		5.9	mg/Kg	☼	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	Qualifier	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

Date Collected: 08/11/21 08:30

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-9

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)	76		6.3	mg/Kg	☼	08/13/21 13:54	08/24/21 22:19	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150	08/13/21 13:54	08/24/21 22:19	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	370		5.5	mg/Kg	☼	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	1

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# Client Sample Results

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

Job ID: 570-67093-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.58	mg/Kg	☼	08/13/21 13:54	08/24/21 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150	08/13/21 13:54	08/24/21 22:24	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	46		14	mg/Kg	☼	08/21/21 08:15	08/28/21 00:30	1
TPH as Motor Oil Range	53		14	mg/Kg	☼	08/21/21 08:15	08/28/21 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150	08/21/21 08:15	08/28/21 00:30	1

## Client Sample ID: S-2.5-I2

Lab Sample ID: 570-67093-11

Date Collected: 08/11/21 08:55

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)	170		9.6	mg/Kg	☼	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	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	6800		58	mg/Kg	☼	08/21/21 08:15	08/28/21 00:49	10
TPH as Motor Oil Range	2600		58	mg/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

Date Collected: 08/11/21 09:00

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		46	mg/Kg	☼	08/13/21 13:54	08/25/21 00:17	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150	08/13/21 13:54	08/25/21 00:17	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	7600		63	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-67093-1

**Client Sample ID: S-7.5-I2**

**Lab Sample ID: 570-67093-13**

Date Collected: 08/11/21 09:05

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)	4.3		0.22	mg/Kg	☼	08/13/21 13:54	08/24/21 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58		50 - 150	08/13/21 13:54	08/24/21 22:49	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	220		6.0	mg/Kg	☼	08/21/21 08:15	08/28/21 01:29	1
TPH as Motor Oil Range	170		6.0	mg/Kg	☼	08/21/21 08:15	08/28/21 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150	08/21/21 08:15	08/28/21 01:29	1

**Client Sample ID: S-10-I2**

**Lab Sample ID: 570-67093-14**

Date Collected: 08/11/21 09:10

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)	53		18	mg/Kg	☼	08/13/21 13:54	08/24/21 23:29	50

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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1300		11	mg/Kg	☼	08/21/21 08:15	08/28/21 01:50	1
TPH as Motor Oil Range	560		11	mg/Kg	☼	08/21/21 08:15	08/28/21 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	105		50 - 150	08/21/21 08:15	08/28/21 01:50	1

**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

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	150		6.3	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150	08/21/21 08:15	08/28/21 02:11	1

# Client Sample Results

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

Job ID: 570-67093-1

## Client Sample ID: S-2.5-J3

Date Collected: 08/11/21 09:40

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-16

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)	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
4-Bromofluorobenzene (Surr)	65		50 - 150	08/13/21 13:54	08/24/21 19:35	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	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

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	130		6.8	mg/Kg	☼	08/13/21 13:54	08/25/21 16:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		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	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		50 - 150	08/21/21 08:15	08/28/21 02:50	2

## Client Sample ID: S-7.5-J3

Date Collected: 08/11/21 09:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-18

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)	210		13	mg/Kg	☼	08/13/21 13:54	08/25/21 05:22	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150	08/13/21 13:54	08/25/21 05:22	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	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

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# Client Sample Results

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

Job ID: 570-67093-1

## Client Sample ID: S-10-J3

Date Collected: 08/11/21 09:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-19

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)	160		35	mg/Kg	☼	08/13/21 14:17	08/25/21 05:45	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150	08/13/21 14:17	08/25/21 05:45	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	380		17	mg/Kg	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	89		50 - 150	08/21/21 08:15	08/28/21 03:31	2

## Client Sample ID: S-12.5-J3

Date Collected: 08/11/21 10:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-20

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		0.84	mg/Kg	☼	08/13/21 13:54	08/24/21 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		50 - 150	08/13/21 13:54	08/24/21 18:48	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	93		16	mg/Kg	☼	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
n-Octacosane (Surr)	105		50 - 150	08/21/21 08:15	08/28/21 03:52	1

## Client Sample ID: DUP

Date Collected: 08/11/21 10:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-21

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)	110		14	mg/Kg	☼	08/13/21 14:17	08/24/21 23:06	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150	08/13/21 14:17	08/24/21 23:06	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	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)	98		50 - 150	08/21/21 08:24	08/28/21 07:36	1

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# Client Sample Results

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

Job ID: 570-67093-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	480		62	mg/Kg	☼	08/13/21 14:17	08/25/21 06:09	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150	08/13/21 14:17	08/25/21 06:09	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	760		6.1	mg/Kg	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		50 - 150	08/21/21 08:24	08/28/21 07:55	1

## Client Sample ID: S-7.5-J9

Date Collected: 08/11/21 11:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-23

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)	3300		240	mg/Kg	☼	08/13/21 14:17	08/25/21 06:32	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		50 - 150	08/13/21 14:17	08/25/21 06:32	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		100	mg/Kg	☼	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
n-Octacosane (Surr)	114		50 - 150	08/21/21 08:24	08/28/21 20:23	10

## Client Sample ID: S-10-J9

Date Collected: 08/11/21 11:10

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-24

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)	590		100	mg/Kg	☼	08/13/21 14:17	08/25/21 06:56	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150	08/13/21 14:17	08/25/21 06:56	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	13000		51	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-67093-1

## Client Sample ID: S-12.5-J9

Date Collected: 08/11/21 11:15

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-25

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)	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

### 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	18000		120	mg/Kg	☼	08/21/21 08:24	08/28/21 21:04	5
TPH as Motor Oil Range	4400		120	mg/Kg	☼	08/21/21 08:24	08/28/21 21:04	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	91		50 - 150			08/21/21 08:24	08/28/21 21:04	5

## Client Sample ID: S-2.5-H9

Date Collected: 08/11/21 11:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-26

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)	4.2		0.19	mg/Kg	☼	08/13/21 14:16	08/24/21 23:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150			08/13/21 14:16	08/24/21 23:15	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	1000		5.3	mg/Kg	☼	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

Date Collected: 08/11/21 12:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-27

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		74	mg/Kg	☼	08/13/21 14:17	08/25/21 08:06	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138		50 - 150			08/13/21 14:17	08/25/21 08:06	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	36000		300	mg/Kg	☼	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	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150			08/21/21 08:24	08/28/21 21:24	50

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# Client Sample Results

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

Job ID: 570-67093-1

## 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

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		160	mg/Kg	☼	08/13/21 14:17	08/25/21 08:29	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		50 - 150	08/13/21 14:17	08/25/21 08:29	500

### 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	☼	08/21/21 08:24	08/30/21 03:44	20
TPH as Motor Oil Range	4700		160	mg/Kg	☼	08/21/21 08:24	08/30/21 03:44	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		50 - 150	08/21/21 08:24	08/30/21 03:44	20

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
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)	100		50 - 150	08/25/21 15:01	08/25/21 17:33	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	2000		32	mg/Kg	☼	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	Limits	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

Date Collected: 08/11/21 11:20

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-31

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)	1.5		1.3	mg/Kg	☼	08/13/21 14:16	08/24/21 23:40	1

Surrogate	%Recovery	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 - Northwest - Semi-Volatile Petroleum Products (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	Limits	Prepared	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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67093-1

## Client Sample ID: S-5-J9

Date Collected: 08/11/21 11:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-32

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)	3100		120	mg/Kg	☼	08/13/21 14:17	08/25/21 08:53	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		50 - 150	08/13/21 14:17	08/25/21 08:53	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	4000		33	mg/Kg	☼	08/21/21 08:24	08/28/21 22:04	5
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	5

## Client Sample ID: S-14.5-H9

Date Collected: 08/11/21 12:20

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-67093-33

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		1.8	mg/Kg	☼	08/13/21 14:16	08/25/21 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150	08/13/21 14:16	08/25/21 00:06	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	200		26	mg/Kg	☼	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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67093-1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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

# Surrogate Summary

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

Job ID: 570-67093-1

## Surrogate Legend

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)

Lab Sample ID	Client Sample ID	OTCSN (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
570-67093-12	S-5-I2	125
570-67093-13	S-7.5-I2	96
570-67093-14	S-10-I2	105
570-67093-15	S-12.5-I2	96
570-67093-16	S-2.5-J3	121
570-67093-17	S-5-J3	104
570-67093-18	S-7.5-J3	91
570-67093-19	S-10-J3	89
570-67093-20	S-12.5-J3	105
570-67093-21	DUP	98
570-67093-21 MS	DUP	94
570-67093-21 MS	DUP	103
570-67093-21 MSD	DUP	96
570-67093-21 MSD	DUP	98
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

# Surrogate Summary

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

Job ID: 570-67093-1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (50-150)
LCSD 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

OTCSN = n-Octacosane (Surr)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# QC Sample Results

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

Job ID: 570-67093-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-173726/48**  
**Matrix: Solid**  
**Analysis Batch: 173726**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/24/21 13:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150				08/24/21 13:52	1

**Lab Sample ID: MB 570-173726/49**  
**Matrix: Solid**  
**Analysis Batch: 173726**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/24/21 14:18	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150				08/24/21 14:18	20

**Lab Sample ID: LCS 570-173726/46**  
**Matrix: Solid**  
**Analysis Batch: 173726**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.11	1.810		mg/Kg		86	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	69		50 - 150				

**Lab Sample ID: LCSD 570-173726/47**  
**Matrix: Solid**  
**Analysis Batch: 173726**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.766		mg/Kg		83	77 - 128	2	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	93		50 - 150						

**Lab Sample ID: MB 570-173959/5**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/24/21 14:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150				08/24/21 14:37	1

# QC Sample Results

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

Job ID: 570-67093-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-173959/6**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/24/21 15:00	20	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150					08/24/21 15:00	20

**Lab Sample ID: LCS 570-173959/3**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.10	1.946		mg/Kg		93	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	112		50 - 150				

**Lab Sample ID: LCSD 570-173959/4**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.12	1.967		mg/Kg		93	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		50 - 150						

**Lab Sample ID: MB 570-174124/40**  
**Matrix: Solid**  
**Analysis Batch: 174124**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/25/21 04:35	20	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150					08/25/21 04:35	20

**Lab Sample ID: LCS 570-174124/37**  
**Matrix: Solid**  
**Analysis Batch: 174124**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.972		mg/Kg		93	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	80		50 - 150				

# QC Sample Results

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

Job ID: 570-67093-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-174124/38**  
**Matrix: Solid**  
**Analysis Batch: 174124**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.968		mg/Kg		93	77 - 128	0	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	91		50 - 150						

**Lab Sample ID: MB 570-174173/6**  
**Matrix: Solid**  
**Analysis Batch: 174173**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/25/21 11:52	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	63		50 - 150			08/25/21 11:52	20	

**Lab Sample ID: LCS 570-174173/3**  
**Matrix: Solid**  
**Analysis Batch: 174173**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.992		mg/Kg		94	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	89		50 - 150				

**Lab Sample ID: LCSD 570-174173/4**  
**Matrix: Solid**  
**Analysis Batch: 174173**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.851		mg/Kg		87	77 - 128	7	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	88		50 - 150						

**Lab Sample ID: LCS 570-174304/1-A**  
**Matrix: Solid**  
**Analysis Batch: 174331**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 174304**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.956		mg/Kg		92	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	109		50 - 150				



# QC Sample Results

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

Job ID: 570-67093-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-174304/2-A**  
**Matrix: Solid**  
**Analysis Batch: 174331**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 174304**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.11	1.755		mg/Kg		83	77 - 128	11	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	103		50 - 150						

**Lab Sample ID: MB 570-174305/1-A**  
**Matrix: Solid**  
**Analysis Batch: 174331**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 174305**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		10	mg/Kg		08/25/21 13:48	08/25/21 15:38	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	82		50 - 150			08/25/21 13:48	08/25/21 15:38	20

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-173315/1-A**  
**Matrix: Solid**  
**Analysis Batch: 174778**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173315**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/21/21 08:15	08/27/21 08:20	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/21/21 08:15	08/27/21 08:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	90		50 - 150			08/21/21 08:15	08/27/21 08:20	1

**Lab Sample ID: LCS 570-173315/26-A**  
**Matrix: Solid**  
**Analysis Batch: 174778**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173315**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	375.6		mg/Kg		94	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	89		50 - 150				

**Lab Sample ID: LCS 570-173315/2-A**  
**Matrix: Solid**  
**Analysis Batch: 174778**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173315**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	432.6		mg/Kg		108	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	88		50 - 150				

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# QC Sample Results

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

Job ID: 570-67093-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-173315/27-A**  
**Matrix: Solid**  
**Analysis Batch: 174778**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173315**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Motor Oil (C17-C44)	400	409.3		mg/Kg		102	71 - 139	9	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	86		50 - 150							

**Lab Sample ID: LCSD 570-173315/3-A**  
**Matrix: Solid**  
**Analysis Batch: 174778**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173315**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Diesel (C10-C28)	400	465.1		mg/Kg		116	76 - 126	7	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	83		50 - 150							

**Lab Sample ID: 570-67093-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 174778**

**Client Sample ID: S-2.5-14**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173315**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
TPH as Diesel (C10-C28)	1400	F1	481	4240	F1	mg/Kg	⊛	581	37 - 175	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	125		50 - 150							

**Lab Sample ID: 570-67093-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 174778**

**Client Sample ID: S-2.5-14**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173315**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
TPH as Motor Oil (C17-C44)	1100	F2 F1	506	819.4	F1	mg/Kg	⊛	-55	71 - 174	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	78		50 - 150							

**Lab Sample ID: 570-67093-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 174778**

**Client Sample ID: S-2.5-14**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173315**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	1400	F1	480	3564	F1	mg/Kg	⊛	441	37 - 175	17	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	95		50 - 150								

# QC Sample Results

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

Job ID: 570-67093-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-67093-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 174778**

**Client Sample ID: S-2.5-14**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173315**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	1100	F2 F1	485	1111	F2 F1	mg/Kg	☼	3	71 - 174	30	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	99		50 - 150								

**Lab Sample ID: MB 570-173319/1-A**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173319**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/21/21 08:24	08/27/21 22:11	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/21/21 08:24	08/27/21 22:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>n-Octacosane (Surr)</i>	107		50 - 150			08/21/21 08:24	08/27/21 22:11	1

**Lab Sample ID: LCS 570-173319/18-A**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173319**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	452.8		mg/Kg		113	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	99		50 - 150				

**Lab Sample ID: LCS 570-173319/2-A**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173319**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	486.4		mg/Kg		122	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	106		50 - 150				

**Lab Sample ID: LCSD 570-173319/19-A**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173319**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	456.4		mg/Kg		114	71 - 139	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	100		50 - 150						

# QC Sample Results

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

Job ID: 570-67093-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-173319/3-A**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173319**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	479.0		mg/Kg		120	76 - 126	2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	102		50 - 150						

**Lab Sample ID: 570-67093-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: DUP**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173319**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	120		485	656.9		mg/Kg	⊛	112	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	94		50 - 150								

**Lab Sample ID: 570-67093-21 MS**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: DUP**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173319**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	55		490	729.3		mg/Kg	⊛	138	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	103		50 - 150								

**Lab Sample ID: 570-67093-21 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: DUP**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173319**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	120		484	657.3		mg/Kg	⊛	112	37 - 175	0	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	96		50 - 150								

**Lab Sample ID: 570-67093-21 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175001**

**Client Sample ID: DUP**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173319**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	55		489	721.9		mg/Kg	⊛	136	71 - 174	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	98		50 - 150								

# QC Association Summary

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

Job ID: 570-67093-1

## 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-I4	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-I4	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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# QC Association Summary

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

Job ID: 570-67093-1

## GC VOA (Continued)

### Analysis Batch: 173726 (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	

# QC Association Summary

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

Job ID: 570-67093-1

## GC VOA

### Analysis Batch: 174331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67093-15	S-12.5-I2	Total/NA	Solid	NWTPH-Gx	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-I4	Silica Gel Cleanup	Solid	3550C SGC	
570-67093-3	S-7.5-I4	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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# QC Association Summary

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

Job ID: 570-67093-1

## 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-I4	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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# QC Association Summary

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

Job ID: 570-67093-1

## 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

# Lab Chronicle

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

Job ID: 570-67093-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		10			174778	08/27/21 11:19	UJ3K	ECL 1

**Client Sample ID: S-5-I4**  
**Date Collected: 08/11/21 07:55**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-67093-2**  
**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			6.812 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	173726	08/24/21 21:07	P1R	ECL 2
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 Instrument ID: GC50		1			174778	08/27/21 11:39	UJ3K	ECL 1

**Client Sample ID: S-7.5-I4**  
**Date Collected: 08/11/21 08:00**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-67093-3**  
**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			7.345 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	173726	08/24/21 20:41	P1R	ECL 2
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 Instrument ID: GC50		1			174778	08/27/21 18:15	UJ3K	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC22		1	5 g	5 mL	173726	08/24/21 20:16	P1R	ECL 2
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 Instrument ID: GC50		1			175001	08/27/21 22:31	N5Y3	ECL 1

# Lab Chronicle

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

Job ID: 570-67093-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	173726	08/24/21 21:32	P1R	ECL 2
Instrument ID: GC22										
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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-6-H3

## Lab Sample ID: 570-67093-7

Date Collected: 08/11/21 08:20

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-67093-1

**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**  
**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			11.243 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175001	08/28/21 00:09	N5Y3	ECL 1

**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**  
**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			6.153 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	173726	08/24/21 22:24	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.96 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		1			175001	08/28/21 00:30	N5Y3	ECL 1

**Client Sample ID: S-2.5-I2**  
**Date Collected: 08/11/21 08:55**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-67093-11**  
**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			7.553 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		50	5 mL	5 mL	173959	08/24/21 22:43	P1R	ECL 2
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 Instrument ID: GC50		10			175001	08/28/21 00:49	N5Y3	ECL 1

**Client Sample ID: S-5-I2**  
**Date Collected: 08/11/21 09:00**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-67093-12**  
**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			6.86 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		200	5 mL	5 mL	173959	08/25/21 00:17	P1R	ECL 2
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 Instrument ID: GC50		10			175154	08/28/21 19:42	N5Y3	ECL 1

# Lab Chronicle

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

Job ID: 570-67093-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.852 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	173726	08/24/21 22:49	P1R	ECL 2
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 Instrument ID: GC50		1			175001	08/28/21 01:29	N5Y3	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.322 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		50	5 mL	5 mL	173959	08/24/21 23:29	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 Instrument ID: GC50		1			175001	08/28/21 01:50	N5Y3	ECL 1

**Client Sample ID: S-12.5-I2**  
**Date Collected: 08/11/21 09:15**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-67093-15**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.04 g	10 mL	174305	08/25/21 15:01	E8ZN	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC25		20	5 mL	5 mL	174331	08/25/21 17:04	P1R	ECL 2
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 Instrument ID: GC50		1			175001	08/28/21 02:11	N5Y3	ECL 1

**Client Sample ID: S-2.5-J3**  
**Date Collected: 08/11/21 09:40**  
**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-67093-16**  
**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			10.586 g	5 g	171189	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	173959	08/24/21 19:35	P1R	ECL 2
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 Instrument ID: GC50		10			175001	08/28/21 02:30	N5Y3	ECL 1

# Lab Chronicle

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

Job ID: 570-67093-1

## Client Sample ID: S-5-J3

## Lab Sample ID: 570-67093-17

Date Collected: 08/11/21 09:45

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			10.819 g	5 mL	171188	08/13/21 13:54	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	174124	08/25/21 05:22	A9VE	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.20 g	10 mL	173315	08/21/21 08:15	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175154	08/28/21 20:02	N5Y3	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-10-J3

## Lab Sample ID: 570-67093-19

Date Collected: 08/11/21 09:55

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-12.5-J3

## Lab Sample ID: 570-67093-20

Date Collected: 08/11/21 10:00

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-67093-1

## Client Sample ID: DUP

Lab Sample ID: 570-67093-21

Date Collected: 08/11/21 10:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.398 g	5 mL	171188	08/13/21 14:17	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	173959	08/24/21 23:06	P1R	ECL 2
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		1			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	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 07:55	N5Y3	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-7.5-J9

Lab Sample ID: 570-67093-23

Date Collected: 08/11/21 11:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.438 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-10-J9

Lab Sample ID: 570-67093-24

Date Collected: 08/11/21 11:10

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-67093-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	174124	08/25/21 07:43	A9VE	ECL 2
Instrument ID: GC57										
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
Instrument ID: GC50										

## Client Sample ID: S-2.5-H9

Lab Sample ID: 570-67093-26

Date Collected: 08/11/21 11:55

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.017 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 23:15	P1R	ECL 2
Instrument 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 09:17	N5Y3	ECL 1
Instrument ID: GC50										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-10-H9

Lab Sample ID: 570-67093-29

Date Collected: 08/11/21 12:05

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										



# Lab Chronicle

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

Job ID: 570-67093-1

## Client Sample ID: S-12.5-H9

Lab Sample ID: 570-67093-30

Date Collected: 08/11/21 12:15

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.03 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 17:33	P1R	ECL 2
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		1			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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	174124	08/25/21 08:53	A9VE	ECL 2
Instrument ID: GC57										
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
Instrument ID: GC50										

## Client Sample ID: S-14.5-H9

Lab Sample ID: 570-67093-33

Date Collected: 08/11/21 12:20

Matrix: Solid

Date Received: 08/12/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
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

# Accreditation/Certification Summary

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

Job ID: 570-67093-1

## 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

Job ID: 570-67093-1

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

## 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](mailto:laina.cole@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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**From:** Cecile de Guia <Cecile.deGuia@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](mailto:Cecile.deGuia@eurofinset.com)  
[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [570-230709]  
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

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**de Guia, Cecile**

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**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](mailto:robert.thompson@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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**From:** de Guia, Cecile <Cecile.deGuia@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](mailto:Cecile.deGuia@eurofinset.com)  
Website: [www.eurofinsUS.com/Calscience](http://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  
**To:** 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](mailto:robert.thompson@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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**From:** de Guia, Cecile <Cecile.deGuia@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  
USA  
Phone: +1 714 895 5494

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**From:** de Guia, Cecile <[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)>  
**Sent:** Thursday, August 12, 2021 6:41 PM  
**To:** Cameron Penner-Ash <[cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)>; Laina Cole <[laina.cole@cardno.com](mailto:laina.cole@cardno.com)>; Bobby Thompson <[robert.thompson@cardno.com](mailto: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](mailto:Cecile.deGuia@eurofinset.com)  
[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [570-230709]  
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <

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Calscience


7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
TEL. (714) 895-5494 FAX. (714) 894-7501

<b>Site Name</b>	Everett Bulk Plant
<b>Provide MRN for retail or AFE for major projects</b>	
<b>Retail Project (MRN)</b>	
<b>Major Project (AFE)</b>	
<b>Project Name</b>	ExxonMobil ADC / 0314476040

CHAIN OF CUSTODY RECORD

DATE: 8/11/2021  
PAGE: 1 OF 2

ExxonMobil Engr Jennifer Sedlachek

LABORATORY CLIENT: <b>Cardno</b> ADDRESS: <b>309 South Cloverdale Street Unit A13</b> CITY: <b>Seattle, WA 98108</b> TEL: <b>206-510-5855</b> FAX: <b>N/A</b> email: <b>robert.thompson@cardno.com</b>	GLOBAL ID # COELT LOG CODE:  PROJECT CONTACT: <b>Robert Thompson</b> SAMPLER(S): <b>Paul Prevou, John Considine</b>	P O 0314476040, Agreement# A2604415
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> 10 DAYS	REQUIRED ANALYTES: <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ____/____/____	 570-67093 Chain of Custody
SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Report to: laina.cole@cardno.com, robert.thompson@cardno.com All units in ug/L Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com		

LAB. USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT-RIX	NO. OF CONT	Perform MS/MSD	NNTPH-Gx TPH as Gasoline	NNTPH-Dx TPH as Diesel and Motor Oil		CONTAINER TYPE
			DATE	TIME							
1	S-2-5-T4	T4	8/11/2021	0750	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
2	S-5-T4	T4	8/11/2021	0755	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
3	S-7-5-T4	T4	8/11/2021	0800	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
4	S-10-T4	T4	8/11/2021	0805	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
5	S-12.5-T4	T4	8/11/2021	0810	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
6	S-2-5-H3	H3	8/11/2021	0815	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
7	S-7-5-H3	H3	8/11/2021	0820	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
8	S-10-H3	H3	8/11/2021	0825	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
9	S-12.5-H3	H3	8/11/2021	0830	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
10	S-2-5-I2	I2	8/11/2021	0835	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
11	S-5-I2	I2	8/11/2021	0840	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
12	S-7-5-I2	I2	8/11/2021	0845	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
13	S-10-I2	I2	8/11/2021	0850	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
14	S-12.5-I2	I2	8/11/2021	0855	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
15	S-2-5-J3	J3	8/11/2021	0900	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
16	S-5-J3	J3	8/11/2021	0905	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
17	S-7-5-J3	J3	8/11/2021	0910	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
18	S-10-J3	J3	8/11/2021	0915	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
19	S-12.5-J3	J3	8/11/2021	0920	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
20	<del>S-10-I2</del>	<del>I2</del>	<del>8/11/2021</del>	<del>0925</del>	<del>S</del>	<del>4</del>	<del>X</del>	<del>X</del>	<del>X</del>		<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>
21	<del>S-10-I2</del>	DUP	8/11/2021	1005	S	4	X	X	X		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	Trip Blank	Trip Blank	8/11/2021		S						
	EQB1	EQB1	8/11/2021		S						

Relinquished by (Signature): <b>Paul Prevou</b>	Received by (Signature): <b>FedEx</b>	Date, & Time: 8/11/2021 4:15:00 PM
Relinquished by (Signature):	Received by (Signature): <b>Yam PC</b>	Date, & Time: 8/12/21 1015
Relinquished by (Signature):	Received by (Signature):	Date, & Time:





Calscience

7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
TEL. (714) 895-5494 FAX. (714) 894-7501

<b>Site Name</b>	Everett Bulk Plant
<b>Provide MRN for retail or AFE for major projects</b>	
<b>Retail Project (MRN)</b>	
<b>Major Project (AFE)</b>	
<b>Project Name</b>	ExxonMobil ADC / 0314476040

CHAIN OF CUSTODY RECORD

DATE: 8/11/2021  
PAGE: 2 OF 2

ExxonMobil Engr Jennifer Sedlachek

LABORATORY CLIENT: <b>Cardno</b>						GLOBAL ID #/ COELT LOG CODE:				P O 0314476040, Agreement# A2604415			
ADDRESS: <b>309 South Cloverdale Street Unit A13</b>						PROJECT CONTACT: <b>Robert Thompson</b>				LAB USE ONLY:			
CITY: <b>Seattle, WA 98108</b>						SAMPLER(S): <b>Paul Prevou, John Considine</b>				COOLER RECEIPT:			
TEL: <b>206-510-5855</b>		FAX: <b>N/A</b>		EMAIL: <b>robert.thompson@cardno.com</b>							Temp = °C		
TURNAROUND TIME: <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input type="checkbox"/> 5 DAYS <input checked="" type="checkbox"/> 10 DAYS						REQUESTED ANALYSIS							
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL ____/____/____													
SPECIAL INSTRUCTIONS: Required EIM and Cardno EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Report to: <a href="mailto:laina.cole@cardno.com">laina.cole@cardno.com</a> , <a href="mailto:robert.thompson@cardno.com">robert.thompson@cardno.com</a> All units in ug/L Report to: <a href="mailto:laina.cole@cardno.com">laina.cole@cardno.com</a> , <a href="mailto:robert.thompson@cardno.com">robert.thompson@cardno.com</a> , and <a href="mailto:cameron.penner-ash@cardno.com">cameron.penner-ash@cardno.com</a>													
LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT-RIX	NO. OF CONT	Perform MS/MSD	NMT/PH-Gx TPH as Gasoline	NMT/PH-Dx TPH as Diesel and Motor Oil	CONTAINER TYPE			
			DATE	TIME									
	22 S-2.5-H9	J9	8/11/2021	1055	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	<del>S-14.5-H9</del>	<del>H9</del>	<del>8/11/2021</del>	<del>1130</del>	<del>S</del>	<del>4</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	24 S-7.5-H9	J9	8/11/2021	1130	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	25 S-10-H9	J9	8/11/2021	1110	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	26 S-12.5-H9	J9	8/11/2021	1115	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	27 S-2.5-H9	H9	8/11/2021	1155	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	<del>S-14.5-H9</del>	<del>H9</del>	<del>8/11/2021</del>	<del>1200</del>	<del>S</del>	<del>4</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	28 S-7.5-H9	H9	8/11/2021	1205	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	29 S-10-H9	H9	8/11/2021	121205	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	30 S-12.5-H9	H9	8/11/2021	12215	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar			
	<del>S-2.5</del>		<del>8/11/2021</del>		<del>S</del>	<del>4</del>				<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	<del>S-5</del>		<del>8/11/2021</del>		<del>S</del>	<del>4</del>				<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	<del>S-7.5</del>		<del>8/11/2021</del>		<del>S</del>	<del>4</del>				<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	<del>S-10</del>		<del>8/11/2021</del>		<del>S</del>	<del>4</del>				<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	<del>S-12.5</del>		<del>8/11/2021</del>		<del>S</del>	<del>4</del>				<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	<del>S-2.5</del>		<del>8/11/2021</del>		<del>S</del>	<del>4</del>				<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	<del>S-5</del>		<del>8/11/2021</del>		<del>S</del>	<del>4</del>				<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	<del>S-7.5</del>		<del>8/11/2021</del>		<del>S</del>	<del>4</del>				<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	<del>S-10</del>		<del>8/11/2021</del>		<del>S</del>	<del>4</del>				<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	<del>S-12.5</del>		<del>8/11/2021</del>		<del>S</del>	<del>4</del>				<del>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</del>			
	31 S-14.5-H9	J9	8/11/2021	1120	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved jar			
	32 S-5-H9	J9	8/11/2021	1100	S	4	X	X	X	2 sodium bisulfate VOAs, 1 methanol VOA, one 4oz un-preserved jar			
	33 S-14.5-H9	H9	8/11/2021	1221	S	4	X	X	X	2 sodium bisulfate VOAs, 1 methanol VOA, one 4oz un-preserved jar			
	Typ Blank	Typ Blank	8/11/2021		S								
	EODT	EODT	8/11/2021		S								
Relinquished by (Signature): <b>Paul Prevou</b>						Received by (Signature): <b>FedEx</b>				Date & Time: 8/11/2021 4:15:00 PM			
Relinquished by (Signature):						Received by (Signature): <b>Van EC</b>				Date & Time: 8/11/2021 10:15			
Relinquished by (Signature):						Received by (Signature):				Date & Time:			

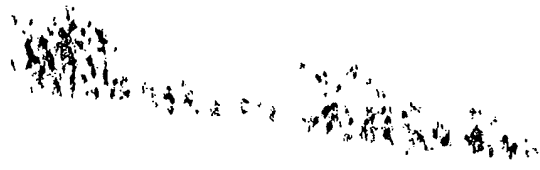
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8/30/2021



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570-67093 Waybill



800-233-8425  
ING SUPPLY

**ODY SEAL**

Signature: \_\_\_\_\_

Date: 8/11/2021

8/DJ1/MF3/FE48



**92 APVA**

2220 EXP 02/22

CA-US SNA 92844

NSH

THU - 12 AUG 10:30A  
PRIORITY OVERNIGHT

FedEx  
TRK# 8135 3322 8201

**DO NOT LIFT**

399  
ST 13

10:30  
8201  
08:12  
C

# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67093-1

**Login Number: 67093**  
**List Number: 1**  
**Creator: Liao, Gineyau**

**List Source: Eurofins Calscience LLC**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## 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

*Cecile de Guia*

---

Authorized for release by:  
8/27/2021 9:13:47 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

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  
Project/Site: ExxonMobil/ADC / 0314476040

Job ID: 570-67215-1

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  
Project/Site: ExxonMobil/ADC / 0314476040

Job ID: 570-67215-1

## Qualifiers

### GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

### GC Semi VOA

Qualifier	Qualifier Description
F1	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"
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

# Case Narrative

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

Job ID: 570-67215-1

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## Job ID: 570-67215-1

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### Laboratory: Eurofins Calscience LLC

#### Narrative

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#### 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.

#### GC VOA

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174124. 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.

#### VOA Prep

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

# Detection Summary

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

Job ID: 570-67215-1

## 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)	190		25	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	1300		32	mg/Kg	5	✳	NWTPH-Dx	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	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.2		0.12	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	66		30	mg/Kg	5	✳	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 Cleanup
TPH as Motor Oil Range	170		71	mg/Kg	10	✳	NWTPH-Dx	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

# Detection Summary

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

Job ID: 570-67215-1

## Client Sample ID: S-10-Q6

## Lab Sample ID: 570-67215-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	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	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-Q6

## Lab Sample ID: 570-67215-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	33		12	mg/Kg	100	✳	NWTPH-Gx	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

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 570-67215-1

## 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

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		25	mg/Kg	☼	08/17/21 12:41	08/25/21 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

### 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		32	mg/Kg	☼	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	5

## Client Sample ID: S-5-R1

Date Collected: 08/12/21 13:10

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67215-2

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)	0.51		0.21	mg/Kg	☼	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 - 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	☼	08/21/21 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

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67215-3

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)	1.2		0.12	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	66		30	mg/Kg	☼	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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		50 - 150			08/21/21 08:18	08/27/21 08:07	5

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67215-1

## Client Sample ID: S-10-R1

Lab Sample ID: 570-67215-4

Date Collected: 08/12/21 13:20

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)	0.36		0.12	mg/Kg	☼	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

### 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	63		12	mg/Kg	☼	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

## Client Sample ID: S-12.5-R1

Lab Sample ID: 570-67215-5

Date Collected: 08/12/21 13:25

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		0.58	mg/Kg	☼	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 - 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	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	126		50 - 150	08/21/21 08:18	08/27/21 08:50	2

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum 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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		50 - 150	08/17/21 12:41	08/25/21 10:26	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	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	132		50 - 150	08/21/21 08:18	08/27/21 19:40	10

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# Client Sample Results

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

Job ID: 570-67215-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	590		70	mg/Kg	☼	08/17/21 12:41	08/25/21 10:50	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		50 - 150	08/17/21 12:41	08/25/21 10:50	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	3400		62	mg/Kg	☼	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

Date Collected: 08/12/21 13:55

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67215-8

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)	0.80		0.15	mg/Kg	☼	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	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		6.1	mg/Kg	☼	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

Date Collected: 08/12/21 14:00

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67215-9

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)	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	1



# Client Sample Results

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

Job ID: 570-67215-1

**Client Sample ID: S-12.5-Q6**

**Lab Sample ID: 570-67215-10**

Date Collected: 08/12/21 14:05

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)	33		12	mg/Kg	☼	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

**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	9.5		6.6	mg/Kg	☼	08/21/21 08:18	08/27/21 15:22	1
TPH as Motor Oil Range	8.1		6.6	mg/Kg	☼	08/21/21 08:18	08/27/21 15:22	1

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

# Surrogate Summary

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

Job ID: 570-67215-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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

#### Surrogate Legend

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)

Lab Sample ID	Client Sample ID	OTCSN (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
LCSD 570-173316/3-A	Lab Control Sample Dup	114
MB 570-173316/1-A	Method Blank	115

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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**  
**Matrix: Solid**  
**Analysis Batch: 174124**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/25/21 04:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150				08/25/21 04:11	1

**Lab Sample ID: MB 570-174124/40**  
**Matrix: Solid**  
**Analysis Batch: 174124**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/25/21 04:35	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150				08/25/21 04:35	20

**Lab Sample ID: LCS 570-174124/37**  
**Matrix: Solid**  
**Analysis Batch: 174124**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.972		mg/Kg		93	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	80		50 - 150				

**Lab Sample ID: LCSD 570-174124/38**  
**Matrix: Solid**  
**Analysis Batch: 174124**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.968		mg/Kg		93	77 - 128	0	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		50 - 150						

**Lab Sample ID: MB 570-174173/5**  
**Matrix: Solid**  
**Analysis Batch: 174173**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/25/21 11:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150				08/25/21 11:26	1

# QC Sample Results

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

Job ID: 570-67215-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-174173/3**  
**Matrix: Solid**  
**Analysis Batch: 174173**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.992		mg/Kg		94	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	89		50 - 150				

**Lab Sample ID: LCSD 570-174173/4**  
**Matrix: Solid**  
**Analysis Batch: 174173**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.851		mg/Kg		87	77 - 128	7	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	88		50 - 150						

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-173316/1-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/21/21 08:18	08/26/21 17:15	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/21/21 08:18	08/26/21 17:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	115		50 - 150			08/21/21 08:18	08/26/21 17:15	1

**Lab Sample ID: LCS 570-173316/26-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	404.5		mg/Kg		101	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	113		50 - 150				

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	456.2		mg/Kg		114	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	119		50 - 150				

Eurofins Calscience LLC

# QC Sample Results

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

Job ID: 570-67215-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-173316/27-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Motor Oil (C17-C44)	400	407.6		mg/Kg		102	71 - 139	1	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	114		50 - 150							

**Lab Sample ID: LCSD 570-173316/3-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Diesel (C10-C28)	400	459.2		mg/Kg		115	76 - 126	NaN	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	114		50 - 150							

**Lab Sample ID: 570-67215-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: S-2.5-R1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
TPH as Diesel (C10-C28)	1500	F1	504	2292		mg/Kg	⊛	166	37 - 175	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	118		50 - 150							

**Lab Sample ID: 570-67215-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: S-2.5-R1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
TPH as Motor Oil (C17-C44)	1200	F1	514	1925		mg/Kg	⊛	139	71 - 174	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	109		50 - 150							

**Lab Sample ID: 570-67215-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: S-2.5-R1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	1500	F1	506	2378	F1	mg/Kg	⊛	182	37 - 175	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	118		50 - 150								

# QC Sample Results

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

Job ID: 570-67215-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-67215-1 MSD**

**Matrix: Solid**

**Analysis Batch: 174648**

**Client Sample ID: S-2.5-R1**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 173316**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	1200	F1	513	2234	F1	mg/Kg	✱	200	71 - 174	15	20
<b>Surrogate</b>	<b>MSD</b>	<b>MSD</b>									
<i>n</i> -Octacosane (Surr)	124										50 - 150

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# QC Association Summary

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

Job ID: 570-67215-1

## GC VOA

### Prep Batch: 172029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67215-2	S-5-R1	Total/NA	Solid	5035	
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	
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	
LCS 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	
LCS 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

# QC Association Summary

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

Job ID: 570-67215-1

## 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



# Lab Chronicle

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

Job ID: 570-67215-1

**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**  
**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			6.426 g	5 mL	172030	08/17/21 12:41	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		5			174648	08/27/21 06:37	A1W	ECL 1

**Client Sample ID: S-5-R1**  
**Date Collected: 08/12/21 13:10**  
**Date Received: 08/13/21 10:15**

**Lab Sample ID: 570-67215-2**  
**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			7.179 g	5 g	172029	08/17/21 12:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			174648	08/27/21 06:59	A1W	ECL 1

**Client Sample ID: S-7.5-R1**  
**Date Collected: 08/12/21 13:15**  
**Date Received: 08/13/21 10:15**

**Lab Sample ID: 570-67215-3**  
**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			12.82 g	5 g	172029	08/17/21 12:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	174173	08/25/21 13:09	A9VE	ECL 2
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 Instrument ID: GC48		5			174648	08/27/21 08:07	A1W	ECL 1

**Client Sample ID: S-10-R1**  
**Date Collected: 08/12/21 13:20**  
**Date Received: 08/13/21 10:15**

**Lab Sample ID: 570-67215-4**  
**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			12.032 g	5 g	172029	08/17/21 12:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	174173	08/25/21 14:51	A9VE	ECL 2
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 Instrument ID: GC50		2			174778	08/27/21 20:12	UJ3K	ECL 1

# Lab Chronicle

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

Job ID: 570-67215-1

## Client Sample ID: S-12.5-R1

## Lab Sample ID: 570-67215-5

Date Collected: 08/12/21 13:25

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.407 g	5 g	172029	08/17/21 12:48	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		2			174648	08/27/21 08:50	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.062 g	5 mL	172030	08/17/21 12:41	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		500	5 mL	5 mL	174124	08/25/21 10:26	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.97 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		10			174778	08/27/21 19:40	UJ3K	ECL 1

## Client Sample ID: S-5-Q6

## Lab Sample ID: 570-67215-7

Date Collected: 08/12/21 13:50

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		500	5 mL	5 mL	174124	08/25/21 10:50	A9VE	ECL 2
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 Instrument ID: GC48		10			174648	08/27/21 09:34	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC22		1	5 g	5 mL	174173	08/25/21 22:44	A9VE	ECL 2
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 Instrument ID: GC48		1			174648	08/27/21 09:56	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-67215-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	174124	08/25/21 11:37	A9VE	ECL 2
Instrument ID: GC57										
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
Instrument ID: GC48										

## Client Sample ID: S-12.5-Q6

## Lab Sample ID: 570-67215-10

Date Collected: 08/12/21 14:05

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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  
Project/Site: ExxonMobil/ADC / 0314476040

Job ID: 570-67215-1

## 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

Job ID: 570-67215-1

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
5035	Closed System Purge and Trap	SW846	ECL 2

#### Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

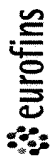
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### 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

67215



7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
Calscience TEL: (714) 895-5494 FAX: (714) 894-7501

**Site Name** Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE: 8/12/2021  
PAGE 1 OF 1

**ExxonMobil Engr**  
Jennifer Sedlitzek

LABORATORY CLIENT: **Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855 FAX: N/A  
TURNAROUND TIME: robert.thompson@cardno.com

GLOBAL ID # COBELT LOG CODE: P O 0314476040 Agreement# A2604415

PROJECT CONTACT: **Robert Thompson**  
SAMPLER(S): **Paul Prevou, John Considine**

LAB USE ONLY: [ ]  
COOLER RECEIPT: [ ]  
TEMP: [ ]

**REQUESTED ANALYSIS**

570-67215 Chain of Custody

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	MATERIAL	Perform M/MSD	NWT/Ph-GX TPH as Gasoline	NWT/Ph-DX TPH as Diesel and Motor Oil	CONTAINER TYPE
			DATE	TIME						
	1 S-2.5-R1	R1	8/12/2021	1305	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	2 S-5-R1	R1	8/12/2021	1310	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	3 S-7.5-R1	R1	8/12/2021	1315	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	4 S-10-R1	R1	8/12/2021	1325	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	5 S-12.5-R1	R1	8/12/2021	1335	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	6 S-2.5-R6	R6	8/12/2021	1345	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	7 S-5-R6	R6	8/12/2021	1350	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	8 S-7.5-R6	R6	8/12/2021	1355	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	9 S-10-R6	R6	8/12/2021	1405	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	10 S-12.5-R6	R6	8/12/2021	1415	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-2.5-		8/12/2021		4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-5-		8/12/2021		4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-7.5-		8/12/2021		4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-10-		8/12/2021		4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-12.5-		8/12/2021		4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	Tri-BLANK	Tri-BLANK	8/12/2021							
	EQB1	EQB1	8/12/2021							

Relinquished by (Signature) *Paul Prevou*  
Relinquished by (Signature) *John Considine*  
Relinquished by (Signature) *Paul Prevou*

Received by (Signature) FedEX  
Received by (Signature) *Paul Prevou*  
Received by (Signature) *John Considine*

Date & Time: 8/12/2021 4:15:00 PM  
Date & Time: 8/13/21  
Date & Time: 8/13/21

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# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67215-1

**Login Number: 67215**

**List Number: 1**

**Creator: Patel, Jayesh**

**List Source: Eurofins Calscience LLC**

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.	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	

## 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

*Cecile de Guia*

---

Authorized for release by:  
9/1/2021 10:11:37 AM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67217-1

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
570-67217-30	S-12.5-S2	Solid	08/12/21 12:40	08/13/21 10:15

# Definitions/Glossary

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

Job ID: 570-67217-1

## Qualifiers

### 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.
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.
α	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

# Case Narrative

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

Job ID: 570-67217-1

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## Job ID: 570-67217-1

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### 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.

# Case Narrative

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

Job ID: 570-67217-1

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**Job ID: 570-67217-1 (Continued)**

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**Laboratory: Eurofins Calscience LLC (Continued)**

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# Detection Summary

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

Job ID: 570-67217-1

## Client Sample ID: S-2.5-A6

## Lab Sample ID: 570-67217-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	520		55	mg/Kg	250	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	7300		55	mg/Kg	10	✘	NWTPH-Dx	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	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	220		56	mg/Kg	250	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	1700		30	mg/Kg	5	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	410		30	mg/Kg	5	✘	NWTPH-Dx	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
TPH as Diesel Range	6700		570	mg/Kg	100	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	3500		570	mg/Kg	100	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-A6

## Lab Sample ID: 570-67217-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	5.2		0.18	mg/Kg	1	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	8.1		6.3	mg/Kg	1	✘	NWTPH-Dx	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

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.40		0.21	mg/Kg	1	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	83		9.0	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	55		9.0	mg/Kg	1	✘	NWTPH-Dx	Silica Gel 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	1	✘	NWTPH-Gx	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 Cleanup

## Client Sample ID: S-5-B9

## Lab Sample ID: 570-67217-7

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
TPH as Diesel Range - RA	110		6.4	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67217-1

## Client Sample ID: S-5-B9 (Continued)

## Lab Sample ID: 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-B9

## Lab Sample ID: 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 Sample ID: S-10-B9

## Lab Sample ID: 570-67217-9

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 Sample ID: S-12.5-B9

## Lab Sample ID: 570-67217-10

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-S4

## Lab Sample ID: 570-67217-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.60		0.24	mg/Kg	1	☒	NWTPH-Gx	Total/NA

## Client Sample ID: S-5-S4

## Lab Sample ID: 570-67217-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.25		0.20	mg/Kg	1	☒	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	23		5.9	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-S4

## Lab Sample ID: 570-67217-13

No Detections.

## Client Sample ID: S-10-S4

## Lab Sample ID: 570-67217-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.12		0.094	mg/Kg	1	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range - RA	10		5.8	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - RA	180		5.8	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67217-1

## Client Sample ID: S-12.5-S4

## Lab Sample ID: 570-67217-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range - RA	220		18	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-R5

## Lab Sample ID: 570-67217-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.0		0.19	mg/Kg	1	✳	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

## Client Sample ID: S-10-R5

## Lab Sample ID: 570-67217-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	38		16	mg/Kg	100	✳	NWTPH-Gx	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	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-R5

## Lab Sample ID: 570-67217-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	15		5.7	mg/Kg	50	✳	NWTPH-Gx	Total/NA
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	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	89		11	mg/Kg	50	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	440		29	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	270		29	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-R5 DUP

## Lab Sample ID: 570-67217-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	450		21	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range - RA	140		6.4	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - RA	130		6.4	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-R3

## Lab Sample ID: 570-67217-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.55		0.26	mg/Kg	1	✳	NWTPH-Gx	Total/NA

## Client Sample ID: S-5-R3

## Lab Sample ID: 570-67217-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.74		0.11	mg/Kg	1	✳	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



# Detection Summary

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

Job ID: 570-67217-1

## 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

## Client Sample ID: S-7.5-R3

Lab Sample ID: 570-67217-23

No Detections.

## Client Sample ID: S-10-R3

Lab Sample ID: 570-67217-24

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	1	☒	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	1	☒	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	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.25		0.12	mg/Kg	1	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	15		5.9	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	140		5.9	mg/Kg	1	☒	NWTPH-Dx	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	1	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	20		6.0	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	49		6.0	mg/Kg	1	☒	NWTPH-Dx	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.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67217-1

## Client Sample ID: S-2.5-A6

## Lab Sample ID: 570-67217-1

Date Collected: 08/12/21 07:30

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)	520		55	mg/Kg	☼	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

### 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	7300		55	mg/Kg	☼	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

## Client Sample ID: S-5-A6

## Lab Sample ID: 570-67217-2

Date Collected: 08/12/21 07:35

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)	220		56	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1700		30	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150	08/21/21 08:21	08/26/21 20:08	5

## Client Sample ID: S-7.5-A6

## Lab Sample ID: 570-67217-3

Date Collected: 08/12/21 07:40

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)	450		62	mg/Kg	☼	08/17/21 15:01	08/25/21 13:57	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150	08/17/21 15:01	08/25/21 13:57	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	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	127		50 - 150	08/21/21 08:21	08/26/21 20:29	100

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# Client Sample Results

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

Job ID: 570-67217-1

## Client Sample ID: S-10-A6

Lab Sample ID: 570-67217-4

Date Collected: 08/12/21 07:45

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)	5.2		0.18	mg/Kg	☼	08/17/21 15:02	08/25/21 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61		50 - 150	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	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150	08/21/21 08:21	08/26/21 20:50	1

## Client Sample ID: S-12.5-A6

Lab Sample ID: 570-67217-5

Date Collected: 08/12/21 07:50

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)	0.40		0.21	mg/Kg	☼	08/17/21 15:02	08/25/21 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150	08/17/21 15:02	08/25/21 01:27	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	83		9.0	mg/Kg	☼	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)	117		50 - 150	08/21/21 08:21	08/26/21 21:12	1

## Client Sample ID: S-2.5-B9

Lab Sample ID: 570-67217-6

Date Collected: 08/12/21 09:00

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)	0.60		0.21	mg/Kg	☼	08/17/21 15:02	08/25/21 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150	08/17/21 15:02	08/25/21 01:50	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	23		5.7	mg/Kg	☼	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
n-Octacosane (Surr)	111		50 - 150	08/21/21 08:21	08/26/21 21:33	1

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# Client Sample Results

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

Job ID: 570-67217-1

## Client Sample ID: S-5-B9

Lab Sample ID: 570-67217-7

Date Collected: 08/12/21 09:05

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)	8.0		2.5	mg/Kg	☼	08/17/21 15:01	08/26/21 12:46	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62		50 - 150	08/17/21 15:01	08/26/21 12:46	20

### 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	110		6.4	mg/Kg	☼	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

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	6.9		0.25	mg/Kg	☼	08/17/21 15:02	08/26/21 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59		50 - 150	08/17/21 15:02	08/26/21 15:36	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	89		6.2	mg/Kg	☼	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

Date Collected: 08/12/21 09:15

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)	35		7.1	mg/Kg	☼	08/17/21 15:01	08/26/21 09:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150	08/17/21 15:01	08/26/21 09:55	50

### 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		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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150	08/21/21 08:21	08/27/21 16:27	1

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# Client Sample Results

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

Job ID: 570-67217-1

## Client Sample ID: S-12.5-B9

Lab Sample ID: 570-67217-10

Date Collected: 08/12/21 09:20

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)	43		6.0	mg/Kg	☼	08/17/21 15:01	08/26/21 10:20	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150	08/17/21 15:01	08/26/21 10:20	50

### 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	150		5.8	mg/Kg	☼	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

Date Collected: 08/12/21 10:05

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)	0.60		0.24	mg/Kg	☼	08/17/21 15:02	08/25/21 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		50 - 150	08/17/21 15:02	08/25/21 02:14	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	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		50 - 150	08/21/21 08:21	08/27/21 00:05	1

## Client Sample ID: S-5-S4

Lab Sample ID: 570-67217-12

Date Collected: 08/12/21 10:10

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)	0.25		0.20	mg/Kg	☼	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

### 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		5.9	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

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# Client Sample Results

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

Job ID: 570-67217-1

## Client Sample ID: S-7.5-S4

Date Collected: 08/12/21 10:15

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67217-13

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		0.23	mg/Kg	☼	08/17/21 15:02	08/24/21 20:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		50 - 150	08/17/21 15:02	08/24/21 20:22	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	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		50 - 150	08/21/21 08:21	08/27/21 00:47	1

## 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

### 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	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	10		5.8	mg/Kg	☼	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

Date Collected: 08/12/21 10:25

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67217-15

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		0.97	mg/Kg	☼	08/17/21 15:02	08/25/21 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	52		50 - 150	08/17/21 15:02	08/25/21 19:30	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	ND		18	mg/Kg	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150	08/21/21 08:21	08/27/21 17:32	1

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# Client Sample Results

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

Job ID: 570-67217-1

## Client Sample ID: S-2.5-R5

Lab Sample ID: 570-67217-16

Date Collected: 08/12/21 10:45

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)	1.0		0.19	mg/Kg	☼	08/17/21 15:02	08/25/21 16:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150			08/17/21 15:02	08/25/21 16:33	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	7.5		5.7	mg/Kg	☼	08/21/21 08:21	08/27/21 01:53	1
TPH as Motor Oil Range	17		5.7	mg/Kg	☼	08/21/21 08:21	08/27/21 01:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		50 - 150			08/21/21 08:21	08/27/21 01:53	1

## Client Sample ID: S-10-R5

Lab Sample ID: 570-67217-17

Date Collected: 08/12/21 11:00

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)	38		16	mg/Kg	☼	08/17/21 15:01	08/26/21 13:39	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	D	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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			08/21/21 08:21	08/27/21 02:14	2

## Client Sample ID: S-12.5-R5

Lab Sample ID: 570-67217-18

Date Collected: 08/12/21 11:05

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)	15		5.7	mg/Kg	☼	08/17/21 15:01	08/26/21 10:45	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58		50 - 150			08/17/21 15:01	08/26/21 10:45	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	ND		6.3	mg/Kg	☼	08/21/21 08:21	08/27/21 02:36	1
TPH as Motor Oil Range	7.7		6.3	mg/Kg	☼	08/21/21 08:21	08/27/21 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	112		50 - 150			08/21/21 08:21	08/27/21 02:36	1

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# Client Sample Results

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

Job ID: 570-67217-1

## 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

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)	89		11	mg/Kg	☼	08/17/21 15:01	08/26/21 11:11	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59		50 - 150			08/17/21 15:01	08/26/21 11:11	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	440		29	mg/Kg	☼	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	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	450		21	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	☼	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

Date Collected: 08/12/21 11:40

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67217-21

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)	0.55		0.26	mg/Kg	☼	08/17/21 15:02	08/25/21 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150			08/17/21 15:02	08/25/21 18:16	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		6.5	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	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150			08/21/21 08:18	08/27/21 11:01	1

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# Client Sample Results

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

Job ID: 570-67217-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.74		0.11	mg/Kg	☼	08/17/21 15:02	08/26/21 09:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150	08/17/21 15:02	08/26/21 09:29	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	32		6.3	mg/Kg	☼	08/21/21 08:18	08/27/21 15:43	1
TPH as Motor Oil Range	480		6.3	mg/Kg	☼	08/21/21 08:18	08/27/21 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150	08/21/21 08:18	08/27/21 15:43	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.14	mg/Kg	☼	08/17/21 15:02	08/26/21 09:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	52		50 - 150	08/17/21 15:02	08/26/21 09:04	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		5.9	mg/Kg	☼	08/21/21 08:18	08/27/21 11:44	1
TPH as Motor Oil Range	ND		5.9	mg/Kg	☼	08/21/21 08:18	08/27/21 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122		50 - 150	08/21/21 08:18	08/27/21 11:44	1

## Client Sample ID: S-10-R3

Date Collected: 08/12/21 11:55

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67217-24

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		0.11	mg/Kg	☼	08/17/21 15:02	08/26/21 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150	08/17/21 15:02	08/26/21 08:38	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		5.9	mg/Kg	☼	08/21/21 08:18	08/27/21 12:06	1
TPH as Motor Oil Range	ND		5.9	mg/Kg	☼	08/21/21 08:18	08/27/21 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	90		50 - 150	08/21/21 08:18	08/27/21 12:06	1

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# Client Sample Results

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

Job ID: 570-67217-1

## Client Sample ID: S-12.5-R3

Lab Sample ID: 570-67217-25

Date Collected: 08/12/21 12:00

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		1.3	mg/Kg	☼	08/17/21 15:02	08/25/21 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150	08/17/21 15:02	08/25/21 18:41	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	☼	08/21/21 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
n-Octacosane (Surr)	113		50 - 150	08/21/21 08:18	08/27/21 12:27	1

## Client Sample ID: S-2.5-S2

Lab Sample ID: 570-67217-26

Date Collected: 08/12/21 12:20

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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150	08/17/21 15:02	08/25/21 19:07	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	21		6.2	mg/Kg	☼	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

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)	0.25		0.12	mg/Kg	☼	08/17/21 15:02	08/25/21 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150	08/17/21 15:02	08/25/21 19:58	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	15		5.9	mg/Kg	☼	08/21/21 08:18	08/27/21 13:11	1
TPH as Motor Oil Range	140		5.9	mg/Kg	☼	08/21/21 08:18	08/27/21 13:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		50 - 150	08/21/21 08:18	08/27/21 13:11	1

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# Client Sample Results

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

Job ID: 570-67217-1

## Client Sample ID: S-7.5-S2

Date Collected: 08/12/21 12:30

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67217-28

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		0.20	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		5.8	mg/Kg	☼	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

Date Collected: 08/12/21 12:35

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67217-29

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)	0.21		0.21	mg/Kg	☼	08/17/21 15:02	08/25/21 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150	08/17/21 15:02	08/25/21 20:49	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	20		6.0	mg/Kg	☼	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

Date Collected: 08/12/21 12:40

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67217-30

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)	ND		0.50	mg/Kg	☼	08/17/21 15:02	08/25/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		50 - 150	08/17/21 15:02	08/25/21 19:32	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		14	mg/Kg	☼	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	1

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# Surrogate Summary

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

Job ID: 570-67217-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB1 (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			
570-67217-17	S-10-R5	62			
570-67217-18	S-12.5-R5	58			
570-67217-19	S-13-B9	59			
570-67217-20	S-10-R5 DUP	65			
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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67217-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (50-150)
MB 570-174430/36	Method Blank	61

#### Surrogate Legend

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)

Lab Sample ID	Client Sample ID	OTCSN (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

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# Surrogate Summary

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

Job ID: 570-67217-1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (50-150)
LCS 570-173317/26-A	Lab Control Sample	109
LCS 570-173317/2-A	Lab Control Sample	109
LCSD 570-173316/27-A	Lab Control Sample Dup	114
LCSD 570-173316/3-A	Lab Control Sample Dup	114
LCSD 570-173317/27-A	Lab Control Sample Dup	113
LCSD 570-173317/3-A	Lab Control Sample Dup	114
MB 570-173316/1-A	Method Blank	115
MB 570-173317/1-A	Method Blank	114

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

Client: Cardno, Inc  
 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**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/24/21 14:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150				08/24/21 14:37	1

**Lab Sample ID: LCS 570-173959/3**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.10	1.946		mg/Kg		93	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	112		50 - 150				

**Lab Sample ID: LCSD 570-173959/4**  
**Matrix: Solid**  
**Analysis Batch: 173959**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.967		mg/Kg		93	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	91		50 - 150						

**Lab Sample ID: MB 570-174124/40**  
**Matrix: Solid**  
**Analysis Batch: 174124**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/25/21 04:35	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150				08/25/21 04:35	20

**Lab Sample ID: LCS 570-174124/37**  
**Matrix: Solid**  
**Analysis Batch: 174124**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.972		mg/Kg		93	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	80		50 - 150				

# QC Sample Results

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

Job ID: 570-67217-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-174124/38**  
**Matrix: Solid**  
**Analysis Batch: 174124**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.968		mg/Kg		93	77 - 128	0	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	91		50 - 150						

**Lab Sample ID: MB 570-174173/5**  
**Matrix: Solid**  
**Analysis Batch: 174173**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/25/21 11:26	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	79		50 - 150			08/25/21 11:26	1	

**Lab Sample ID: MB 570-174173/6**  
**Matrix: Solid**  
**Analysis Batch: 174173**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/25/21 11:52	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	63		50 - 150			08/25/21 11:52	20	

**Lab Sample ID: LCS 570-174173/3**  
**Matrix: Solid**  
**Analysis Batch: 174173**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.992		mg/Kg		94	77 - 128		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	89		50 - 150						

**Lab Sample ID: LCSD 570-174173/4**  
**Matrix: Solid**  
**Analysis Batch: 174173**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.851		mg/Kg		87	77 - 128	7	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	88		50 - 150						



# QC Sample Results

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

Job ID: 570-67217-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-174333/6**  
**Matrix: Solid**  
**Analysis Batch: 174333**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg	-		08/25/21 18:36	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150					08/25/21 18:36	1

**Lab Sample ID: LCS 570-174333/4**  
**Matrix: Solid**  
**Analysis Batch: 174333**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.003		mg/Kg	-	95	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		50 - 150				

**Lab Sample ID: LCSD 570-174333/5**  
**Matrix: Solid**  
**Analysis Batch: 174333**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.024		mg/Kg	-	95	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	87		50 - 150						

**Lab Sample ID: MB 570-174393/38**  
**Matrix: Solid**  
**Analysis Batch: 174393**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg	-		08/26/21 01:43	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150					08/26/21 01:43	1

**Lab Sample ID: MB 570-174393/39**  
**Matrix: Solid**  
**Analysis Batch: 174393**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg	-		08/26/21 02:09	20	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		50 - 150					08/26/21 02:09	20

# QC Sample Results

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

Job ID: 570-67217-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-174393/36**  
**Matrix: Solid**  
**Analysis Batch: 174393**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	1.844		mg/Kg		87	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	89		50 - 150				

**Lab Sample ID: LCSD 570-174393/37**  
**Matrix: Solid**  
**Analysis Batch: 174393**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.824		mg/Kg		86	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	92		50 - 150						

**Lab Sample ID: MB 570-174430/36**  
**Matrix: Solid**  
**Analysis Batch: 174430**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/26/21 06:50	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	61		50 - 150				08/26/21 06:50	20

**Lab Sample ID: LCS 570-174430/33**  
**Matrix: Solid**  
**Analysis Batch: 174430**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.11	2.040		mg/Kg		97	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	90		50 - 150				

**Lab Sample ID: LCSD 570-174430/39**  
**Matrix: Solid**  
**Analysis Batch: 174430**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.067		mg/Kg		97	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	90		50 - 150						

# QC Sample Results

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

Job ID: 570-67217-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-173316/1-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/21/21 08:18	08/26/21 17:15	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/21/21 08:18	08/26/21 17:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		50 - 150			08/21/21 08:18	08/26/21 17:15	1

**Lab Sample ID: LCS 570-173316/26-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	404.5		mg/Kg		101	71 - 139
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	113		50 - 150				

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	456.2		mg/Kg		114	76 - 126
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	119		50 - 150				

**Lab Sample ID: LCSD 570-173316/27-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	407.6		mg/Kg		102	71 - 139	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	114		50 - 150						

**Lab Sample ID: LCSD 570-173316/3-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	459.2		mg/Kg		115	76 - 126	1	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	114		50 - 150						

# QC Sample Results

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

Job ID: 570-67217-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-67215-A-1-B MS**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Matrix Spike**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Diesel (C10-C28)	1500	F1	504	2292		mg/Kg	⊛	166	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>								
<i>n-Octacosane (Surr)</i>	118		50 - 150								

**Lab Sample ID: 570-67215-A-1-C MSD**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit		
TPH as Diesel (C10-C28)	1500	F1	506	2378	F1	mg/Kg	⊛	182	37 - 175		4		20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>										
<i>n-Octacosane (Surr)</i>	118		50 - 150										

**Lab Sample ID: 570-67215-A-1-E MS**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Matrix Spike**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.		
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	1200	F1	514	1925		mg/Kg	⊛	139	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>								
<i>n-Octacosane (Surr)</i>	109		50 - 150								

**Lab Sample ID: 570-67215-A-1-F MSD**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173316**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit		
TPH as Motor Oil (C17-C44)	1200	F1	513	2234	F1	mg/Kg	⊛	200	71 - 174		15		20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>										
<i>n-Octacosane (Surr)</i>	124		50 - 150										

**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**

Analyte	MB	MB	RL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier								
TPH as Diesel Range	ND		5.0	mg/Kg		08/21/21 08:21	08/26/21 16:10			1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/21/21 08:21	08/26/21 16:10			1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>			<b>Prepared</b>	<b>Analyzed</b>			
<i>n-Octacosane (Surr)</i>	114		50 - 150			08/21/21 08:21	08/26/21 16:10	1		

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# QC Sample Results

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

Job ID: 570-67217-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-173317/26-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173317**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	408.5		mg/Kg		102	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	109		50 - 150				

**Lab Sample ID: LCS 570-173317/2-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173317**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	439.0		mg/Kg		110	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	109		50 - 150				

**Lab Sample ID: LCSD 570-173317/27-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173317**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	402.9		mg/Kg		101	71 - 139	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	113		50 - 150						

**Lab Sample ID: LCSD 570-173317/3-A**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173317**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	441.3		mg/Kg		110	76 - 126	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	114		50 - 150						

**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**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	7800	F2	438	11960	4	mg/Kg	☼	943	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	103		50 - 150						

# QC Sample Results

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

Job ID: 570-67217-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**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**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
TPH as Motor Oil (C17-C44)	4700		442	5858	4	mg/Kg	⊛	262	71 - 174	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS</b>	<b>MS</b>							
<i>n-Octacosane (Surr)</i>	106					50 - 150				

**Lab Sample ID: 570-67217-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: S-2.5-A6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173317**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
TPH as Diesel (C10-C28)	7800	F2	440	9138	4 F2	mg/Kg	⊛	298	37 - 175		27	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>									
<i>n-Octacosane (Surr)</i>	120					50 - 150						

**Lab Sample ID: 570-67217-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 174648**

**Client Sample ID: S-2.5-A6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 173317**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
TPH as Motor Oil (C17-C44)	4700		443	5973	4	mg/Kg	⊛	287	71 - 174		2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>									
<i>n-Octacosane (Surr)</i>	112					50 - 150						

# QC Association Summary

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

Job ID: 570-67217-1

## 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	

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-67217-1

## GC VOA (Continued)

### Analysis Batch: 174124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
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
570-67217-12	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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# QC Association Summary

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

Job ID: 570-67217-1

## 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 Batch
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	

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-67217-1

## 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-F 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	S-2.5-A6	Silica Gel Cleanup	Solid	NWTPH-Dx	173317

Eurofins Calscience LLC

# Lab Chronicle

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

Job ID: 570-67217-1

## Client Sample ID: S-2.5-A6

## Lab Sample ID: 570-67217-1

Date Collected: 08/12/21 07:30

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		10			174648	08/26/21 19:47	A1W	ECL 1

## Client Sample ID: S-5-A6

## Lab Sample ID: 570-67217-2

Date Collected: 08/12/21 07:35

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		250	5 mL	5 mL	174124	08/25/21 13:34	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		5			174648	08/26/21 20:08	A1W	ECL 1

## Client Sample ID: S-7.5-A6

## Lab Sample ID: 570-67217-3

Date Collected: 08/12/21 07:40

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.867 g	5 mL	172066	08/17/21 15:01	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		100			174648	08/26/21 20:29	A1W	ECL 1

## Client Sample ID: S-10-A6

## Lab Sample ID: 570-67217-4

Date Collected: 08/12/21 07:45

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			8.899 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	173959	08/25/21 01:03	P1R	ECL 2
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 Instrument ID: GC48		1			174648	08/26/21 20:50	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-67217-1

**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**  
**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			11.207 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			174648	08/26/21 21:12	A1W	ECL 1

**Client Sample ID: S-2.5-B9**  
**Date Collected: 08/12/21 09:00**  
**Date Received: 08/13/21 10:15**

**Lab Sample ID: 570-67217-6**  
**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			7.056 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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	NWTPH-Dx Instrument 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**

**Lab Sample ID: 570-67217-7**  
**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			12.711 g	5 mL	172066	08/17/21 15:01	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		20	5 mL	5 mL	174430	08/26/21 12:46	A9VE	ECL 2
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 Instrument ID: GC48	RA	1			174648	08/27/21 16:05	A1W	ECL 1

**Client Sample ID: S-7.5-B9**  
**Date Collected: 08/12/21 09:10**  
**Date Received: 08/13/21 10:15**

**Lab Sample ID: 570-67217-8**  
**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			6.223 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	174430	08/26/21 15:36	A9VE	ECL 2
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 Instrument ID: GC48		1			174648	08/26/21 22:17	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-67217-1

## Client Sample ID: S-10-B9

Lab Sample ID: 570-67217-9

Date Collected: 08/12/21 09:15

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-12.5-B9

Lab Sample ID: 570-67217-10

Date Collected: 08/12/21 09:20

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			12.256 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 10:20	A9VE	ECL 2
Instrument ID: GC22										
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	NWTPH-Dx	RA	1			174648	08/27/21 16:48	A1W	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-2.5-S4

Lab Sample ID: 570-67217-11

Date Collected: 08/12/21 10:05

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-5-S4

Lab Sample ID: 570-67217-12

Date Collected: 08/12/21 10:10

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67217-1

## Client Sample ID: S-7.5-S4

Date Collected: 08/12/21 10:15

Date Received: 08/13/21 10:15

## Lab Sample ID: 570-67217-13

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			6.858 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			174648	08/27/21 00:47	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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	NWTPH-Dx Instrument 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

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			4.651 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	174333	08/25/21 19:30	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC	RA		10.06 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48	RA	1			174648	08/27/21 17:32	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC22		1	5 g	5 mL	174173	08/25/21 16:33	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 Instrument ID: GC48		1			174648	08/27/21 01:53	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-67217-1

## Client Sample ID: S-10-R5

Lab Sample ID: 570-67217-17

Date Collected: 08/12/21 11:00

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-12.5-R5

Lab Sample ID: 570-67217-18

Date Collected: 08/12/21 11:05

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14.212 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 10:45	A9VE	ECL 2
Instrument ID: GC22										
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173317	08/21/21 08:21	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 02:36	A1W	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-13-B9

Lab Sample ID: 570-67217-19

Date Collected: 08/12/21 09:25

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		50	5 mL	5 mL	174393	08/26/21 11:11	A9VE	ECL 2
Instrument 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		5			174648	08/27/21 02:57	A1W	ECL 1
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67217-1

## Client Sample ID: S-2.5-R3

Lab Sample ID: 570-67217-21

Date Collected: 08/12/21 11:40

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	174173	08/25/21 18:16	A9VE	ECL 2
Instrument ID: GC22										
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
Instrument ID: GC48										

## Client Sample ID: S-5-R3

Lab Sample ID: 570-67217-22

Date Collected: 08/12/21 11:45

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										



# Lab Chronicle

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

Job ID: 570-67217-1

## Client Sample ID: S-12.5-R3

## Lab Sample ID: 570-67217-25

Date Collected: 08/12/21 12:00

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-2.5-S2

## Lab Sample ID: 570-67217-26

Date Collected: 08/12/21 12:20

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	174173	08/25/21 19:07	A9VE	ECL 2
Instrument ID: GC22										
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
Instrument ID: GC48										

## Client Sample ID: S-5-S2

## Lab Sample ID: 570-67217-27

Date Collected: 08/12/21 12:25

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-7.5-S2

## Lab Sample ID: 570-67217-28

Date Collected: 08/12/21 12:30

Matrix: Solid

Date Received: 08/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.453 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 20:23	A9VE	ECL 2
Instrument ID: GC22										
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		1			174648	08/27/21 13:32	A1W	ECL 1
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67217-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			174648	08/27/21 13:55	A1W	ECL 1

**Client Sample ID: S-12.5-S2**  
**Date Collected: 08/12/21 12:40**  
**Date Received: 08/13/21 10:15**

**Lab Sample ID: 570-67217-30**  
**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			6.933 g	5 g	172067	08/17/21 15:02	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	174173	08/25/21 19:32	A9VE	ECL 2
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 Instrument ID: GC48		1			174648	08/27/21 14:16	A1W	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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67217-1

## 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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Method Summary

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

Job ID: 570-67217-1

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
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

## 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](mailto:laina.cole@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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---

**From:** Cecile de Guia <Cecile.deGuia@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.

Thank you.

**Cecile de Guia**  
Project Manager

Eurofins Calscience LLC  
Phone: 714-895-5494

E-mail: [Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)  
[www.eurofinsus.com/env](http://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](mailto:laina.cole@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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, any use, distribution or copying of the information contained in this email and its attachments is strictly prohibited. If you have received this email in error, please email the sender by replying to this message and immediately delete and destroy any copies of this email and any attachments. The views or opinions expressed are the author's own and may not reflect the views or opinions of Cardno.

---

**From:** Cecile de Guia <Cecile.deGuia@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.

Thank you.

**Cecile de Guia**  
Project Manager

Eurofins Calscience LLC  
Phone: 714-895-5494

E-mail: [Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)  
[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [570-235721]  
Attachments: 4

> > [Bank information has changed, please refer to remittance information on invoice.](#) < <

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67217



7440 LINCOLN WAY  
CALSCIENCE GARDEN GROVE, CA 92841-1432  
TEL: (714) 895-5494, FAX: (714) 894-7601

**Site Name** Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

CHAIN OF CUSTODY RECORD

DATE 8/12/2021  
PAGE 1 OF 7

**ExxonMobil Engr** Jennifer Sediachek  
**LABORATORY CLIENT**  
**Cardno**  
**ADDRESS** 309 South Cloverdale Street Unit A13  
**CITY** Seattle, WA 98108  
**TEL** 206-510-5855  
**TURNAROUND TIME**  24 HR  48 HR  72 HR  5 DAYS  10 DAYS  
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  
 RWQCB REPORTING  ARCHIVE SAMPLES UNTIL \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
 SPECIAL INSTRUCTIONS  
 Report to: laina.cole@cardno.com, Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method.  
 Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com  
 All units in ug/l  
 Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com

**GLOBAL ID # COBLET LOG CODE** P O 0314476040 Agreement# A2604415  
**PROJECT CONTACT** Robert Thompson  
**SAMPLER(S)** Paul Prevou, John Considine  
**LAB USE ONLY**  
**COOLER RECEIPT**  
 Temp: \_\_\_\_\_ °C

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	Field Point Name	DATE	TIME	MAT. RIX	NO. OF CONT	Perform MS/MSD	NWTPH-GX TPH as Gasoline	NWTPH-DX TPH as Diesel and Motor Oil	CONTAINER TYPE
	1 S-2.5-A6	A6	8/12/2021	0733	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	2 S-5-A6	A6	8/12/2021	0735	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	3 S-7.5-A6	A6	8/12/2021	0740	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	4 S-10-A6	A6	8/12/2021	0745	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	5 S-12.5-A6	A6	8/12/2021	0750	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	6 S-2.5-B9	B9	8/12/2021	0900	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	7 S-5-B9	B9	8/12/2021	0905	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	8 S-7.5-B9	B9	8/12/2021	0910	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	9 S-10-B9	B9	8/12/2021	0915	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	10 S-12.5-B9	B9	8/12/2021	0920	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	11 S-2.5-S4	S4	8/12/2021	1025	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	12 S-5-S4	S4	8/12/2021	1030	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	13 S-7.5-S4	S4	8/12/2021	1035	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	14 S-10-S4	S4	8/12/2021	1040	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	15 S-12.5-S4	S4	8/12/2021	1045	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	16 S-2.5-R5	R5	8/12/2021	1045	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	17 S-5-R5	R5	8/12/2021	1050	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	18 S-10-R5	R5	8/12/2021	1100	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	19 S-12.5-R5	R5	8/12/2021	1105	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	20 DUP	DUP	8/12/2021	1110	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

**Barcode** 570-67217 Chain of Custody

Received by (Signature)	Paul Prevou	8/12/2021 4:15:00 PM
Relinquished by (Signature)	Robert Thompson	8/12/2021 10:10
Received by (Signature)	Paul Prevou	8/12/2021 10:10
Relinquished by (Signature)	Robert Thompson	8/12/2021 10:10

**Relinquished by (Signature)** Paul Prevou  
**Relinquished by (Signature)** Robert Thompson  
**Received by (Signature)** Paul Prevou  
**Received by (Signature)** Robert Thompson

3-7/33, 3-9/30, 3-11/30, 3-12/30, 3-13/30, 3-14/30, 3-15/30, 3-16/30, 3-17/30, 3-18/30, 3-19/30, 3-20/30, 3-21/30, 3-22/30, 3-23/30, 3-24/30, 3-25/30, 3-26/30, 3-27/30, 3-28/30, 3-29/30, 3-30/30, 3-31/30

67217



7440 LINCOLN WAY  
CALSCIENCE GARDEN GROVE, CA 92841-1432  
TEL: (714) 896-6494 . FAX: (714) 894-7501

**Site Name** Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE 8/12/2021  
PAGE 1 OF 2

ExxonMobil Engr Jennifer Sedlitzek

LABORATORY CLIENT: **Cardno**  
ADDRESS: **309 South Cloverdale Street Unit A13**  
CITY: **Seattle, WA 98108**  
TEL: **206-510-5855** FAX: **N/A**  
TURNAROUND TIME:  24 HR  48 HR  72 HR  10 DAYS

GLOBAL ID # COELT LOG CODE: P O 0314476040 Agreement# A2604415

PROJECT CONTACT: **Robert Thompson**  
SAMPLER(S): **Paul Prevou, John Considine**

LAB USE ONLY:  **COOLER RECEIPT**

570-67217 Chain of Custody

**REQUESTED ANALYSIS**

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	MAT. RIX	Perform M/MSD	NMTPH-Gx TPH as Gasoline	NMTPH-Dx TPH as Diesel and Motor Oil	CONTAINER TYPE
			DATE	TIME						
1	S-2.5-A6	A6	8/12/2021	0733	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
2	S-5-A6	A6	8/12/2021	0735	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
3	S-7.5-A6	A6	8/12/2021	0740	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
4	S-10-A6	A6	8/12/2021	0745	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
5	S-12.5-A6	A6	8/12/2021	0750	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
6	S-2.5-B9	B9	8/12/2021	0900	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
7	S-5-B9	B9	8/12/2021	0905	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
8	S-7.5-B9	B9	8/12/2021	0910	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
9	S-10-B9	B9	8/12/2021	0915	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
10	S-12.5-B9	B9	8/12/2021	0920	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
11	S-2.5-S4	S4	8/12/2021	1005	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
12	S-5-S4	S4	8/12/2021	1010	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
13	S-7.5-S4	S4	8/12/2021	1015	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
14	S-10-S4	S4	8/12/2021	1020	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
15	S-12.5-S4	S4	8/12/2021	1025	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
16	S-2.5-R5	R5	8/12/2021	1030	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
17	S-5-R5	R5	8/12/2021	1035	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
18	S-7.5-R5	R5	8/12/2021	1040	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
19	S-10-R5	R5	8/12/2021	1045	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
20	S-12.5-R5	R5	8/12/2021	1050	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	DUP	DUP	8/12/2021	1110	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	Frip-Blank-EGBT	Frip-Blank-EGBT	8/12/2021			S				

REQUIRED BY (Signature): **Paul Prevou**  
RELINQUISHED BY (Signature): **Paul Prevou**

RECEIVED BY (Signature): **Paul Prevou**  
RECEIVED BY (Signature): **Paul Prevou**

DATE & TIME: 8/12/2021 4:15:00 PM  
DATE & TIME: 8/13/21 10:10

3-7/33 3-9/30 JRS



67217



7440 LINCOLN WAY  
 Calscience GARDEN GROVE, CA 92841-1432  
 TEL: (714) 896-6494 . FAX: (714) 894-7601

**Site Name** Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

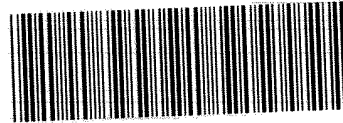
**CHAIN OF CUSTODY RECORD**  
 DATE: 8/12/2021  
 PAGE: 2 OF 7

ExxonMobil Engr. Jennifer Sedlachek

LABORATORY CLIENT <b>Cardino</b>		GLOBAL ID # GCBLT LOG CODE:		P O 0314476040, Agreement# A2604415						
ADDRESS: 309 South Cloverdale Street Unit A13		PROJECT CONTACT <b>Robert Thompson</b>		LAB USE ONLY COOLER RECEIPT						
CITY: Seattle, WA 98108		SAMPLER(S): <b>Paul Prevou, John Considine</b>		T: 200p #						
TEL: 206-510-5855		TURNAROUND TIME		T: 200p #						
<input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL / /		<b>REQUESTED ANALYSIS</b>								
SPECIAL INSTRUCTIONS: Required EIM and Cardino EDDs. Perform Silica Gel Cleanup - 0.5 grams. Group results by sample, not by analysis method. Report to: lajina.cole@cardno.com, robert.thompson@cardno.com, and cameran.penner@cardno.com All units in ug/L. Report to: lajina.cole@cardno.com, robert.thompson@cardno.com, and cameran.penner@cardno.com										
LAB USE ONLY	SAMPLE ID	Field Point Name	DATE	SAMPLING TIME	MAT-RIX	NO. OF CONT	Perfrom MSMSD	NMTPH-Gx TPH as Gasoline	NMTPH-Dx TPH as Diesel and Motor Oil	CONTAINER TYPE
	21 S-2.5-R3	R3	8/12/2021	11:10	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	22 S-5-R3	R3	8/12/2021	11:15	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	23 S-7.5-R3	R3	8/12/2021	11:30	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	24 S-10-R3	R3	8/12/2021	11:35	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	25 S-12.5-R3	R3	8/12/2021	12:00	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	26 S-2.5-S2	S2	8/12/2021	12:20	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	27 S-5-S2	S2	8/12/2021	12:25	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	28 S-7.5-S2	S2	8/12/2021	12:30	S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	29 S-10-S2	S2	8/12/2021	12:35	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	30 S-12.5-S2	S2	8/12/2021	12:40	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-2.5-		8/12/2021		S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-5-		8/12/2021		S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-7.5-		8/12/2021		S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-10-		8/12/2021		S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-12.5-		8/12/2021		S	4				2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	Trip Blank	Trip Blank	8/12/2021		S	4				
	EGBT	EGBT	8/12/2021		S	4				
Relinquished by (Signature) <b>Paul Prevou</b>		Received by (Signature) <i>[Signature]</i>		Date, & Time: 8/12/2021 4:15:00 PM						
Relinquished by (Signature)		Received by (Signature)		Date, & Time: 8/13/21 10:10						
Relinquished by (Signature)		Received by (Signature)		Date, & Time:						



67217



570-67217 Waybill

ORIGIN ID:BBEA (817) 965-6081  
CALSCIENCE ENVIRONMENTAL LAB  
7440 LINCOLN WAY  
GARDEN GROVE, CA 92841  
UNITED STATES US

SHIP DATE: 12AUG21  
ACTWGT: 51.00 LB  
CAD: 6986624/SSFE2202  
DIMS: 24x14x13 IN  
BILL THIRD PARTY

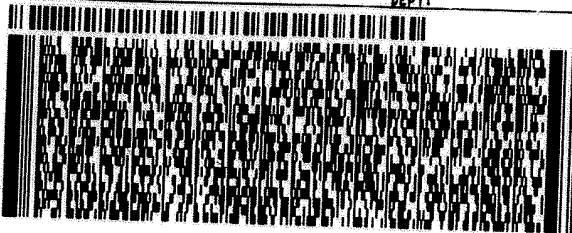
Part # 156297-4034280-01502/22

TO  
**CALSCIENCE ENVIRO LAB**  
**7440 LINCOLN WAY**  
**GARDEN GROVE CA 92841**

(714) 896-6484  
INU  
PO1

REF:

DEPT:



**FedEx**  
Express



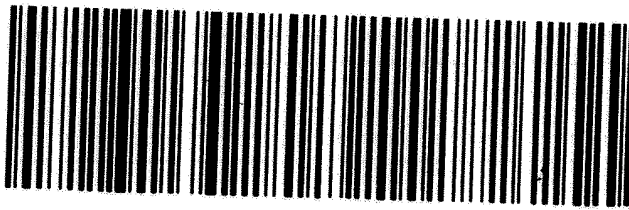
AN10801011202121

TRK#  
0201 2825 1105 7602

**FRI - 13 AUG 10:30A**  
**PRIORITY OVERNIGHT**

**92 APVA**

**AHS**  
**92841**  
**CA-US SNA**



RT **399**  
ST **26**

5  
10:30  
C  
7602  
08.13

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- 14
- 15

# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67217-1

**Login Number: 67217**

**List Number: 1**

**Creator: Patel, Jayesh**

**List Source: Eurofins Calscience LLC**

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.	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	

## 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

*Cecile de Guia*

---

Authorized for release by:  
8/31/2021 5:51:41 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67542-1

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

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# Definitions/Glossary

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

Job ID: 570-67542-1

## Glossary

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

# Case Narrative

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

Job ID: 570-67542-1

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## Job ID: 570-67542-1

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### 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).

#### GC VOA

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174333. 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.

#### 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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67542-1

## Client Sample ID: S-2.5-P1

## Lab Sample ID: 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 Cleanup

## Client Sample ID: S-5-P1

## Lab Sample ID: 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 Cleanup
TPH as Motor Oil Range	780		30	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-P1

## Lab Sample ID: 570-67542-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	14		11	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-P1

## Lab Sample ID: 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 Cleanup

## Client Sample ID: S-12.5-P1

## Lab Sample ID: 570-67542-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	12		12	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-P5

## Lab Sample ID: 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 Cleanup
TPH as Motor Oil Range	360		29	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-P5

## Lab Sample ID: 570-67542-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2500		110	mg/Kg	500	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	3700		32	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	250		32	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-P5

## Lab Sample ID: 570-67542-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	230		65	mg/Kg	250	✳	NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67542-1

## Client Sample ID: S-7.5-P5 (Continued)

## Lab Sample ID: 570-67542-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	29		6.4	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	240		6.4	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-P5

## Lab Sample ID: 570-67542-9

Analyte	Result	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-P5

## Lab Sample ID: 570-67542-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.0		0.25	mg/Kg	1	✳	NWTPH-Gx	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: 570-67542-11

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 Cleanup
TPH as Motor Oil Range	1500		28	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-P7

## Lab Sample ID: 570-67542-12

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 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: 570-67542-13

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 Cleanup
TPH as Motor Oil Range	200		35	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-P7

## Lab Sample ID: 570-67542-14

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 Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67542-1

## Client Sample ID: S-10-P7 (Continued)

## Lab Sample ID: 570-67542-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	310		9.7	mg/Kg	1	✳	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	1	✳	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	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	4100		100	mg/Kg	500	✳	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.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67542-1

## 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 - Northwest - Volatile Petroleum Products (GC)

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

### 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		59	mg/Kg	☼	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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	140		4.3	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	280		30	mg/Kg	☼	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

## Client Sample ID: S-7.5-P1

## Lab Sample ID: 570-67542-3

Date Collected: 08/16/21 11:50

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		0.56	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		11	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		50 - 150	08/24/21 16:54	08/31/21 03:21	1

# Client Sample Results

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

Job ID: 570-67542-1

## Client Sample ID: S-10-P1

Lab Sample ID: 570-67542-4

Date Collected: 08/16/21 11:55

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		0.76	mg/Kg	☼	08/18/21 17:47	08/25/21 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		50 - 150	08/18/21 17:47	08/25/21 20:17	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		59	mg/Kg	☼	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
n-Octacosane (Surr)	114		50 - 150	08/24/21 16:54	08/31/21 03:44	5

## Client Sample ID: S-12.5-P1

Lab Sample ID: 570-67542-5

Date Collected: 08/16/21 12:00

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	☼	08/18/21 17:47	08/25/21 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 150	08/18/21 17:47	08/25/21 20:41	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		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

Date Collected: 08/16/21 12:25

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)	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

### 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		29	mg/Kg	☼	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

# Client Sample Results

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

Job ID: 570-67542-1

## Client Sample ID: S-5-P5

Date Collected: 08/16/21 12:30

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67542-7

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)	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	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3700		32	mg/Kg	☼	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	Qualifier	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

Date Collected: 08/16/21 12:35

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67542-8

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)	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	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	29		6.4	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150	08/24/21 16:54	08/31/21 05:12	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	790		130	mg/Kg	☼	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

### 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		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

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# Client Sample Results

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

Job ID: 570-67542-1

## Client Sample ID: S-12.5-P5

Lab Sample ID: 570-67542-10

Date Collected: 08/16/21 12:45

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)	1.0		0.25	mg/Kg	☼	08/18/21 17:47	08/25/21 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		50 - 150	08/18/21 17:47	08/25/21 21:04	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	10		6.4	mg/Kg	☼	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

Lab Sample ID: 570-67542-11

Date Collected: 08/16/21 13:05

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2800		28	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	132		50 - 150	08/24/21 16:54	08/31/21 07:01	5

## Client Sample ID: S-5-P7

Lab Sample ID: 570-67542-12

Date Collected: 08/16/21 13:10

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)	870		61	mg/Kg	☼	08/18/21 17:47	08/26/21 02:08	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150	08/18/21 17:47	08/26/21 02:08	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	4300		32	mg/Kg	☼	08/24/21 16:54	08/31/21 07:23	5
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	5

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# Client Sample Results

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

Job ID: 570-67542-1

## 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

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)	1000		75	mg/Kg	☼	08/18/21 17:47	08/26/21 02:55	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		50 - 150	08/18/21 17:47	08/26/21 02:55	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	3700		35	mg/Kg	☼	08/24/21 16:54	08/31/21 11:47	5
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	5

## Client Sample ID: S-10-P7

Date Collected: 08/16/21 13:20

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67542-14

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)	260		130	mg/Kg	☼	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

### 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	830		9.7	mg/Kg	☼	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

## Client Sample ID: S-12.5-P7

Date Collected: 08/16/21 13:25

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67542-15

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)	3.0		1.9	mg/Kg	☼	08/18/21 17:47	08/25/21 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150	08/18/21 17:47	08/25/21 21:28	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	1700		27	mg/Kg	☼	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

# Client Sample Results

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

Job ID: 570-67542-1

## Client Sample ID: S-2.5-O8

Lab Sample ID: 570-67542-16

Date Collected: 08/16/21 13:50

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)	4100		100	mg/Kg	☼	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

### 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		100	mg/Kg	☼	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-O8

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 - Northwest - Volatile Petroleum 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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	45000		150	mg/Kg	☼	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

## Client Sample ID: S-10-O8

Lab Sample ID: 570-67542-18

Date Collected: 08/16/21 14:00

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)	1500		260	mg/Kg	☼	08/18/21 17:47	08/26/21 04:29	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150	08/18/21 17:47	08/26/21 04:29	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	2900		9.6	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116		50 - 150	08/24/21 16:57	08/31/21 09:36	1

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# Client Sample Results

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

Job ID: 570-67542-1

**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 - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	8.3		1.6	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	20		19	mg/Kg	☼	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

# Surrogate Summary

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

Job ID: 570-67542-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (50-150)
570-67542-1	S-2.5-P1	67
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

**Surrogate Legend**

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)		
Lab Sample ID	Client Sample ID	OTCSN (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

# 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)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (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

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 570-67542-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-174333/6**  
**Matrix: Solid**  
**Analysis Batch: 174333**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/25/21 18:36	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150				08/25/21 18:36	1

**Lab Sample ID: MB 570-174333/7**  
**Matrix: Solid**  
**Analysis Batch: 174333**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/25/21 19:00	20
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150				08/25/21 19:00	20

**Lab Sample ID: LCS 570-174333/4**  
**Matrix: Solid**  
**Analysis Batch: 174333**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.003		mg/Kg		95	77 - 128
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		50 - 150				

**Lab Sample ID: LCSD 570-174333/5**  
**Matrix: Solid**  
**Analysis Batch: 174333**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.024		mg/Kg		95	77 - 128	1	16
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	87		50 - 150						

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-174036/1-A**  
**Matrix: Solid**  
**Analysis Batch: 175405**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174036**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/24/21 16:53	08/30/21 23:19	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/24/21 16:53	08/30/21 23:19	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		50 - 150			08/24/21 16:53	08/30/21 23:19	1

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# QC Sample Results

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

Job ID: 570-67542-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-174036/2-A**  
**Matrix: Solid**  
**Analysis Batch: 175405**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174036**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	496.5		mg/Kg		124	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	122		50 - 150				

**Lab Sample ID: LCS 570-174036/6-A**  
**Matrix: Solid**  
**Analysis Batch: 175405**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174036**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	462.5		mg/Kg		116	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	108		50 - 150				

**Lab Sample ID: LCSD 570-174036/3-A**  
**Matrix: Solid**  
**Analysis Batch: 175405**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174036**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Diesel (C10-C28)	400	498.8		mg/Kg		125	76 - 126	0	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	122		50 - 150						

**Lab Sample ID: LCSD 570-174036/7-A**  
**Matrix: Solid**  
**Analysis Batch: 175405**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174036**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	400	446.8		mg/Kg		112	71 - 139	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	116		50 - 150						

**Lab Sample ID: 570-67542-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 175405**

**Client Sample ID: S-2.5-P1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174036**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	570		471	978.3		mg/Kg	☼	87	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	116		50 - 150						



# QC Sample Results

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

Job ID: 570-67542-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-67542-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 175405**

**Client Sample ID: S-2.5-P1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174036**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD
TPH as Motor Oil (C17-C44)	1200		472	1761		mg/Kg	⊛	113	71 - 174	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS</b>	<b>MS</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	115			50 - 150						

**Lab Sample ID: 570-67542-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175405**

**Client Sample ID: S-2.5-P1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174036**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
TPH as Diesel (C10-C28)	570		469	1175		mg/Kg	⊛	129	37 - 175	18	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	112			50 - 150								

**Lab Sample ID: 570-67542-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175405**

**Client Sample ID: S-2.5-P1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174036**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit	
TPH as Motor Oil (C17-C44)	1200		470	1988		mg/Kg	⊛	162	71 - 174	12	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	107			50 - 150								

# QC Association Summary

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

Job ID: 570-67542-1

## 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	

# QC Association Summary

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

Job ID: 570-67542-1

## 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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67542-1

## 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

# Lab Chronicle

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

Job ID: 570-67542-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		10			175405	08/31/21 02:37	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.217 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		20	5 mL	5 mL	174333	08/25/21 22:41	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		5			175405	08/31/21 11:03	N1A	ECL 1

## Client Sample ID: S-7.5-P1

## Lab Sample ID: 570-67542-3

Date Collected: 08/16/21 11:50

Matrix: Solid

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	Prep	5035			4.813 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175405	08/31/21 03:21	N1A	ECL 1

## Client Sample ID: S-10-P1

## Lab Sample ID: 570-67542-4

Date Collected: 08/16/21 11:55

Matrix: Solid

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	Prep	5035			3.915 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	174333	08/25/21 20:17	P1R	ECL 2
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 Instrument ID: GC48		5			175405	08/31/21 03:44	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-67542-1

## Client Sample ID: S-12.5-P1

Lab Sample ID: 570-67542-5

Date Collected: 08/16/21 12:00

Matrix: Solid

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	Prep	5035			4.378 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175405	08/31/21 04:06	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		5			175405	08/31/21 04:27	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.049 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		500	5 mL	5 mL	174333	08/26/21 00:34	P1R	ECL 2
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 Instrument ID: GC48		5			175405	08/31/21 11:25	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		250	5 mL	5 mL	174333	08/26/21 00:58	P1R	ECL 2
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 Instrument ID: GC48		1			175405	08/31/21 05:12	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-67542-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		500	5 mL	5 mL	174333	08/26/21 01:21	P1R	ECL 2
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 Instrument ID: GC48		1			175405	08/31/21 05:34	N1A	ECL 1

## Client Sample ID: S-12.5-P5

## Lab Sample ID: 570-67542-10

Date Collected: 08/16/21 12:45

Matrix: Solid

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	Prep	5035			6.342 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175405	08/31/21 05:55	N1A	ECL 1

## 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 Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.505 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		20	5 mL	5 mL	174333	08/26/21 01:45	P1R	ECL 2
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 Instrument ID: GC48		5			175405	08/31/21 07:01	N1A	ECL 1

## Client Sample ID: S-5-P7

## Lab Sample ID: 570-67542-12

Date Collected: 08/16/21 13:10

Matrix: Solid

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	Prep	5035			6.653 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	174333	08/26/21 02:08	P1R	ECL 2
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 Instrument ID: GC48		5			175405	08/31/21 07:23	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-67542-1

## Client Sample ID: S-7.5-P7

## Lab Sample ID: 570-67542-13

Date Collected: 08/16/21 13:15

Matrix: Solid

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	Prep	5035			5.893 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		5			175405	08/31/21 11:47	N1A	ECL 1

## Client Sample ID: S-10-P7

## Lab Sample ID: 570-67542-14

Date Collected: 08/16/21 13:20

Matrix: Solid

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	Prep	5035			4.632 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	174333	08/26/21 03:18	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.97 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		1			175405	08/31/21 08:08	N1A	ECL 1

## Client Sample ID: S-12.5-P7

## Lab Sample ID: 570-67542-15

Date Collected: 08/16/21 13:25

Matrix: Solid

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	Prep	5035			3.53 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175405	08/31/21 08:30	N1A	ECL 1

## Client Sample ID: S-2.5-O8

## Lab Sample ID: 570-67542-16

Date Collected: 08/16/21 13:50

Matrix: Solid

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	Prep	5035			6.971 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		500	5 mL	5 mL	174333	08/26/21 03:42	P1R	ECL 2
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 Instrument ID: GC48		10			175405	08/31/21 12:10	N1A	ECL 1



# Lab Chronicle

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

Job ID: 570-67542-1

**Client Sample ID: S-5-O8**  
**Date Collected: 08/16/21 13:55**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67542-17**  
**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			10.821 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		500	5 mL	5 mL	174333	08/26/21 04:05	P1R	ECL 2
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 Instrument ID: GC48		10			175405	08/31/21 12:32	N1A	ECL 1

**Client Sample ID: S-10-O8**  
**Date Collected: 08/16/21 14:00**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67542-18**  
**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			4.585 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		500	5 mL	5 mL	174333	08/26/21 04:29	P1R	ECL 2
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 Instrument ID: GC48		1			175405	08/31/21 09:36	N1A	ECL 1

**Client Sample ID: S-12.5-O8**  
**Date Collected: 08/16/21 14:05**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67542-19**  
**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			2.993 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	174333	08/25/21 21:51	P1R	ECL 2
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 Instrument ID: GC48		1			175405	08/31/21 09:57	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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67542-1

## 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

1

2

3

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15

# Method Summary

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

Job ID: 570-67542-1

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
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



07542



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 AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE 8/16/2021  
PAGE 1 OF 1

**ExxonMobil Engr.** Jennifer Sedlachek

LABORATORY CLIENT  
**Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855  
TURNAROUND TIME: N/A  
 SAME DAY  24 HR  48 HR  72 HR  10 DAYS  
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  
 ARCHIVE SAMPLES UNTIL  
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.thompson@cardno.com  
All units in mg/kg.  
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com

PROJECT CONTACT: Robert Thompson  
SAMPLER(S): Paul Prevou, John Considine  
GLOBAL ID # COEIT LOG CODE: P O 0314476040 Agreement# A2604415  
LAB USE ONLY  
COOLER RECEIPT

**REQUESTED ANALYSIS**

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT. RIX	No. of CONT	Perform MS/MSD	N/TPH-G TPH as Gasoline	N/TPH-Dx TPH as Diesel and Motor Oil	CONTAINER TYPE
			DATE	TIME						
1	S-2.5-P1	P1	8/16/2021	1145	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
2	S-6-P1	P1	8/16/2021	1145	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
3	S-7.5-P1	P1	8/16/2021	1150	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
4	S-10-P1	P1	8/16/2021	1155	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
5	S-12.5-P1	P1	8/16/2021	1200	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
6	S-2.5-P5	P5	8/16/2021	1225	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
7	S-6-P5	P5	8/16/2021	1230	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
8	S-7.5-P5	P5	8/16/2021	1235	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
9	S-10-P5	P5	8/16/2021	1240	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
10	S-12.5-P5	P5	8/16/2021	1245	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
11	S-2.5-P7	P7	8/16/2021	1250	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
12	S-6-P7	P7	8/16/2021	1255	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
13	S-7.5-P7	P7	8/16/2021	1300	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
14	S-10-P7	P7	8/16/2021	1305	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
15	S-12.5-P7	P7	8/16/2021	1310	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
16	S-2.5-P8	P8	8/16/2021	1315	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
17	S-6-P8	P8	8/16/2021	1320	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
18	S-10-P8	P8	8/16/2021	1325	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
19	S-12.5-P8	P8	8/16/2021	1330	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
20	Trip Blank	Trip Blank	8/16/2021		S					
21	EQBT	EQBT	8/16/2021		S					

Received by (Signature) Paul Prevou  
Received by (Signature) FedEx  
Received by (Signature) [Signature]  
Received by (Signature) [Signature]  
Date & Time: 8/16/2021 4:15:00 PM  
Date & Time: 8/17/21 10:10  
Date & Time:



3-9/13-5 506 \*C-5

67542

**Ex**press Package **US Airbill**

FedEx Tracking Number **8158 1726 2131**

Form ID No. **0215**  
**4 Express Package Service**



67542 Waybill

**Recipient's Copy**  
Packages up to 150 lbs.  
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Phone \_\_\_\_\_  
State \_\_\_\_\_ ZIP \_\_\_\_\_ Dept./Floor/Suite/Room \_\_\_\_\_

**Billing Reference**

Address: **NEW CENTRAL LAB**  
**ARDEN GROVE**  
CA ZIP **91841 1427**  
Dept./Floor/Suite/Room \_\_\_\_\_



8158 1726 2131

- Next Business Day**
- FedEx First Overnight**  
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
  - FedEx Priority Overnight**  
Next business morning.\* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
  - FedEx Standard Overnight**  
Next business afternoon.\* Saturday Delivery NOT available.

- 2 or 3 Business Days**
- FedEx 2Day A.M.**  
Second business morning.\* Saturday Delivery NOT available.
  - FedEx 2Day**  
Second business afternoon.\* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
  - FedEx Express Saver**  
Third business day.\* Saturday Delivery NOT available.

- 5 Packaging** \*Declared value limit \$500.
- FedEx Envelope\*
  - FedEx Pak\*
  - FedEx Box
  - FedEx Tube
  - Other

- Special Handling and Delivery Signature Options** Fees may apply. See the FedEx Service Guide.
- Day Delivery**  
Available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
  - Signature Required**  
Rest by be left signat.
  - Direct Signature**  
Someone at recipient's address sign for delivery.
  - Indirect Signature**  
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

7  
Total \_\_\_\_\_ kg

FedEx.com 1.800.Go.FedEx 1.800.463.3339

# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67542-1

**Login Number: 67542**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Ramos, Maribel**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## 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

*Cecile de Guia*

---

Authorized for release by:  
8/31/2021 10:56:38 AM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67588-1

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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67588-1

## 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.
α	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

# Case Narrative

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

Job ID: 570-67588-1

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## Job ID: 570-67588-1

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### 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.

#### VOA Prep

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

# Detection Summary

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

Job ID: 570-67588-1

## Client Sample ID: S-2.5-A8

## Lab Sample ID: 570-67588-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	20		11	mg/Kg	50	✳	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-A8

## Lab Sample ID: 570-67588-2

Analyte	Result	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-A8

## Lab Sample ID: 570-67588-3

Analyte	Result	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-T3

## Lab Sample ID: 570-67588-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	6.3		5.8	mg/Kg	1	✳	NWTPH-Dx	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

## Lab Sample ID: 570-67588-5

Analyte	Result	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-T3

## Lab Sample ID: 570-67588-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	16		5.7	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	13		5.7	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-T3

## Lab Sample ID: 570-67588-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	220		59	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1400		59	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67588-1

## Client Sample ID: S-12.5-T3

## Lab Sample ID: 570-67588-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	49		20	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-T1

## Lab Sample ID: 570-67588-9

Analyte	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
TPH as Motor Oil Range	59		6.2	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-T1

## Lab Sample ID: 570-67588-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	19		5.8	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	18		5.8	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-T1

## Lab Sample ID: 570-67588-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	13		5.6	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	12		5.6	mg/Kg	1	✳	NWTPH-Dx	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	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	33		7.2	mg/Kg	1	✳	NWTPH-Dx	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	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-Q4

## Lab Sample ID: 570-67588-14

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	20		6.0	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	17		6.0	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-Q4

## Lab Sample ID: 570-67588-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	7.3		0.22	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	100		33	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67588-1

## Client Sample ID: S-5-Q4 (Continued)

Lab Sample ID: 570-67588-15

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-Q4

Lab Sample ID: 570-67588-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.34		0.23	mg/Kg	1	☒	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-Q4

Lab Sample ID: 570-67588-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.27		0.21	mg/Kg	1	☒	NWTPH-Gx	Total/NA

## Client Sample ID: S-12.5-Q4

Lab Sample ID: 570-67588-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	28		7.2	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	56		7.2	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-14.5-A8

Lab Sample ID: 570-67588-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.6		0.32	mg/Kg	1	☒	NWTPH-Gx	Total/NA
TPH as Diesel Range	85		9.5	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	48		9.5	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-P3

Lab Sample ID: 570-67588-20

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 Cleanup
TPH as Motor Oil Range - DL	2400		120	mg/Kg	20	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-Q2

Lab Sample ID: 570-67588-21

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 Cleanup
TPH as Motor Oil Range	240		6.2	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-Q2

Lab Sample ID: 570-67588-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.3		0.21	mg/Kg	1	☒	NWTPH-Gx	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67588-1

## Client Sample ID: S-5-Q2 (Continued)

Lab Sample ID: 570-67588-22

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-Q2

Lab Sample ID: 570-67588-23

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-Q2

Lab Sample ID: 570-67588-24

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: 570-67588-25

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-P3

Lab Sample ID: 570-67588-26

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.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67588-1

## Client Sample ID: S-2.5-A8

Lab Sample ID: 570-67588-1

Date Collected: 08/16/21 07:50

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)	20		11	mg/Kg	☼	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

### 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	69		5.8	mg/Kg	☼	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

## Client Sample ID: S-10-A8

Lab Sample ID: 570-67588-2

Date Collected: 08/16/21 08:05

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)	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

### 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	580		5.7	mg/Kg	☼	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

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	100		6.3	mg/Kg	☼	08/18/21 19:00	08/27/21 19:48	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	35	S1-	50 - 150	08/18/21 19:00	08/27/21 19:48	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	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150	08/24/21 18:22	08/29/21 07:16	1

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# Client Sample Results

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

Job ID: 570-67588-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.20	mg/Kg	☼	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

### 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		5.8	mg/Kg	☼	08/24/21 18:22	08/29/21 07:37	1
TPH as Motor Oil Range	8.3		5.8	mg/Kg	☼	08/24/21 18:22	08/29/21 07:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150	08/24/21 18:22	08/29/21 07:37	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.19	mg/Kg	☼	08/18/21 19:04	08/26/21 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150	08/18/21 19:04	08/26/21 04:18	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		5.6	mg/Kg	☼	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

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.11	mg/Kg	☼	08/18/21 19:04	08/26/21 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150	08/18/21 19:04	08/26/21 04:44	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	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

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67588-1

## 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 - 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	☼	08/18/21 19:04	08/26/21 05:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150	08/18/21 19:04	08/26/21 05:09	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	220		59	mg/Kg	☼	08/24/21 18:22	08/29/21 22:16	10
TPH as Motor Oil Range	1400		59	mg/Kg	☼	08/24/21 18:22	08/29/21 22:16	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150	08/24/21 18:22	08/29/21 22:16	10

## 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

### 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	mg/Kg	☼	08/18/21 19:04	08/26/21 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51		50 - 150	08/18/21 19:04	08/26/21 05:35	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		20	mg/Kg	☼	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
n-Octacosane (Surr)	90		50 - 150	08/24/21 18:22	08/29/21 22:38	1

## Client Sample ID: S-2.5-T1

Lab Sample ID: 570-67588-9

Date Collected: 08/16/21 09:00

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)	0.29		0.26	mg/Kg	☼	08/18/21 19:04	08/26/21 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150	08/18/21 19:04	08/26/21 06:01	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	20		6.2	mg/Kg	☼	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)	90		50 - 150	08/24/21 18:22	08/29/21 22:58	1

# Client Sample Results

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

Job ID: 570-67588-1

## Client Sample ID: S-5-T1

Date Collected: 08/16/21 09:05

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67588-10

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)	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

### 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	19		5.8	mg/Kg	☼	08/24/21 18:22	08/29/21 23:17	1
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	1

## Client Sample ID: S-7.5-T1

Date Collected: 08/16/21 09:10

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67588-11

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		0.11	mg/Kg	☼	08/18/21 19:04	08/26/21 07:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150	08/18/21 19:04	08/26/21 07:43	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	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	87		50 - 150	08/24/21 18:22	08/29/21 23:38	1

## Client Sample ID: S-10-T1

Date Collected: 08/16/21 09:15

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67588-12

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		0.77	mg/Kg	☼	08/18/21 19:04	08/26/21 08:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150	08/18/21 19:04	08/26/21 08:09	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		7.2	mg/Kg	☼	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	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 Results

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

Job ID: 570-67588-1

## 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

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		0.88	mg/Kg	☼	08/18/21 19:04	08/27/21 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	47	S1-	50 - 150	08/18/21 19:04	08/27/21 22:33	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		23	mg/Kg	☼	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

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67588-14

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)	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	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	20		6.0	mg/Kg	☼	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

Date Collected: 08/16/21 09:45

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67588-15

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	100		33	mg/Kg	☼	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

# Client Sample Results

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

Job ID: 570-67588-1

## Client Sample ID: S-7.5-Q4

Lab Sample ID: 570-67588-16

Date Collected: 08/16/21 09:50

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)	0.34		0.23	mg/Kg	☼	08/18/21 19:04	08/27/21 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150	08/18/21 19:04	08/27/21 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	22		6.0	mg/Kg	☼	08/24/21 18:22	08/30/21 01:20	1
TPH as Motor Oil Range	100		6.0	mg/Kg	☼	08/24/21 18:22	08/30/21 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		50 - 150	08/24/21 18:22	08/30/21 01:20	1

## Client Sample ID: S-10-Q4

Lab Sample ID: 570-67588-17

Date Collected: 08/16/21 09:55

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)	0.27		0.21	mg/Kg	☼	08/18/21 19:04	08/26/21 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150	08/18/21 19:04	08/26/21 18:44	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	☼	08/24/21 18:22	08/30/21 02:22	1
TPH as Motor Oil Range	ND		6.0	mg/Kg	☼	08/24/21 18:22	08/30/21 02:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	90		50 - 150	08/24/21 18:22	08/30/21 02:22	1

## Client Sample ID: S-12.5-Q4

Lab Sample ID: 570-67588-18

Date Collected: 08/16/21 10:00

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		0.47	mg/Kg	☼	08/18/21 19:04	08/26/21 18:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61		50 - 150	08/18/21 19:04	08/26/21 18:21	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	28		7.2	mg/Kg	☼	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
n-Octacosane (Surr)	96		50 - 150	08/24/21 18:22	08/30/21 02:42	1

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# Client Sample Results

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

Job ID: 570-67588-1

## Client Sample ID: S-14.5-A8

Lab Sample ID: 570-67588-19

Date Collected: 08/16/21 08:15

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)	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
4-Bromofluorobenzene (Surr)	52		50 - 150	08/18/21 19:04	08/26/21 17:57	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	85		9.5	mg/Kg	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150	08/24/21 18:22	08/30/21 03:02	1

## Client Sample ID: S-2.5-P3

Lab Sample ID: 570-67588-20

Date Collected: 08/16/21 10:15

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)	800		100	mg/Kg	☼	08/18/21 19:00	08/27/21 19:01	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150	08/18/21 19:00	08/27/21 19:01	500

### 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	6100		120	mg/Kg	☼	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
n-Octacosane (Surr)	106		50 - 150	08/24/21 18:22	08/30/21 17:04	20

## Client Sample ID: S-2.5-Q2

Lab Sample ID: 570-67588-21

Date Collected: 08/16/21 11:00

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)	53		4.6	mg/Kg	☼	08/18/21 19:00	08/27/21 22:56	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58		50 - 150	08/18/21 19:00	08/27/21 22:56	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	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	1

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# Client Sample Results

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

Job ID: 570-67588-1

## Client Sample ID: S-5-Q2

Date Collected: 08/16/21 11:05

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67588-22

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)	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

### 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		5.9	mg/Kg	☼	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

Date Collected: 08/16/21 11:10

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67588-23

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)	0.58		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 - 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	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	122		50 - 150	08/24/21 18:32	08/30/21 02:42	1

## Client Sample ID: S-10-Q2

Date Collected: 08/16/21 11:15

Date Received: 08/17/21 10:10

## Lab Sample ID: 570-67588-24

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		0.20	mg/Kg	☼	08/18/21 19:04	08/27/21 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150	08/18/21 19:04	08/27/21 15:36	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		6.2	mg/Kg	☼	08/24/21 18:32	08/30/21 03:48	1
TPH as Motor Oil Range	6.8		6.2	mg/Kg	☼	08/24/21 18:32	08/30/21 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150	08/24/21 18:32	08/30/21 03:48	1

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# Client Sample Results

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

Job ID: 570-67588-1

## 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 - Northwest - Volatile Petroleum 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	08/27/21 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150	08/18/21 19:04	08/27/21 15:59	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		6.1	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		50 - 150	08/24/21 18:32	08/30/21 04:10	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	5.3		1.1	mg/Kg	☼	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

### 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		17	mg/Kg	☼	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



# Surrogate Summary

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

Job ID: 570-67588-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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

**Surrogate Legend**

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)

Lab Sample ID	Client Sample ID	OTCSN (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

# 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)

Lab Sample ID	Client Sample ID	OTCSN (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

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 570-67588-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-174393/38**  
**Matrix: Solid**  
**Analysis Batch: 174393**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/26/21 01:43	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150				08/26/21 01:43	1

**Lab Sample ID: LCS 570-174393/36**  
**Matrix: Solid**  
**Analysis Batch: 174393**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	1.844		mg/Kg		87	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	89		50 - 150				

**Lab Sample ID: LCSD 570-174393/37**  
**Matrix: Solid**  
**Analysis Batch: 174393**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.824		mg/Kg		86	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		50 - 150						

**Lab Sample ID: MB 570-174430/35**  
**Matrix: Solid**  
**Analysis Batch: 174430**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/26/21 06:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51		50 - 150				08/26/21 06:26	1

**Lab Sample ID: LCS 570-174430/33**  
**Matrix: Solid**  
**Analysis Batch: 174430**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.11	2.040		mg/Kg		97	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	90		50 - 150				

# QC Sample Results

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

Job ID: 570-67588-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-174430/39**  
**Matrix: Solid**  
**Analysis Batch: 174430**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.067		mg/Kg		97	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	90		50 - 150						

**Lab Sample ID: MB 570-174789/37**  
**Matrix: Solid**  
**Analysis Batch: 174789**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/27/21 11:42	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	62		50 - 150			08/27/21 11:42	1	

**Lab Sample ID: MB 570-174789/38**  
**Matrix: Solid**  
**Analysis Batch: 174789**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/27/21 12:06	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	57		50 - 150			08/27/21 12:06	20	

**Lab Sample ID: LCS 570-174789/35**  
**Matrix: Solid**  
**Analysis Batch: 174789**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.121		mg/Kg		100	77 - 128		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	96		50 - 150						

**Lab Sample ID: LCSD 570-174789/36**  
**Matrix: Solid**  
**Analysis Batch: 174789**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.136		mg/Kg		101	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	77		50 - 150						

# QC Sample Results

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

Job ID: 570-67588-1

## 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**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
TPH as Diesel Range	ND		5.0	mg/Kg		08/24/21 18:22	08/28/21 19:23	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/24/21 18:22	08/28/21 19:23	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
<i>n-Octacosane (Surr)</i>	97		50 - 150			08/24/21 18:22	08/28/21 19:23	1

**Lab Sample ID: LCS 570-174070/2-A**  
**Matrix: Solid**  
**Analysis Batch: 175154**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174070**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
<i>n-Octacosane (Surr)</i>	95		50 - 150				

**Lab Sample ID: LCS 570-174070/6-A**  
**Matrix: Solid**  
**Analysis Batch: 175154**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174070**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
<i>n-Octacosane (Surr)</i>	98		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**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
TPH as Diesel (C10-C28)	400	472.1		mg/Kg		118	76 - 126	6	20
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	97		50 - 150						

**Lab Sample ID: LCSD 570-174070/7-A**  
**Matrix: Solid**  
**Analysis Batch: 175154**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174070**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
TPH as Motor Oil (C17-C44)	400	406.4		mg/Kg		102	71 - 139	2	20
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	90		50 - 150						

# QC Sample Results

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

Job ID: 570-67588-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-67588-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 175154**

**Client Sample ID: S-2.5-A8**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	79		464	605.7		mg/Kg	⊛	113	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>						
<i>n-Octacosane (Surr)</i>	107		50 - 150						

**Lab Sample ID: 570-67588-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 175154**

**Client Sample ID: S-2.5-A8**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	67		457	532.5		mg/Kg	⊛	102	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>						
<i>n-Octacosane (Surr)</i>	89		50 - 150						

**Lab Sample ID: 570-67588-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175154**

**Client Sample ID: S-2.5-A8**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	79		461	541.0		mg/Kg	⊛	100	37 - 175	11	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
<i>n-Octacosane (Surr)</i>	84		50 - 150								

**Lab Sample ID: 570-67588-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175154**

**Client Sample ID: S-2.5-A8**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	67		460	539.1		mg/Kg	⊛	103	71 - 174	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
<i>n-Octacosane (Surr)</i>	94		50 - 150								

**Lab Sample ID: MB 570-174079/1-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	MB Result	MB 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
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
<i>n-Octacosane (Surr)</i>	124		50 - 150	08/24/21 18:28	08/29/21 12:54	1		

# QC Sample Results

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

Job ID: 570-67588-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-174079/2-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	454.4		mg/Kg		114	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	129		50 - 150				

**Lab Sample ID: LCS 570-174079/6-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	439.9		mg/Kg		110	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	122		50 - 150				

**Lab Sample ID: LCSD 570-174079/3-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	441.2		mg/Kg		110	76 - 126	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	119		50 - 150						

**Lab Sample ID: LCSD 570-174079/7-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	406.7		mg/Kg		102	71 - 139	8	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	105		50 - 150						

**Lab Sample ID: 570-67613-A-21-A MS**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Matrix Spike**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	8000	F2	464	5916	4	mg/Kg	⊛	-446	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	117		50 - 150						

# QC Sample Results

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

Job ID: 570-67588-1

## 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 Sample ID: Matrix Spike Duplicate**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Diesel (C10-C28)	8000	F2	469	7539	4 F2	mg/Kg	⊛	-95	37 - 175	24	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>MSD</b>	<b>MSD</b>						
<i>n-Octacosane (Surr)</i>	129		50 - 150								

**Lab Sample ID: 570-67613-A-21-C MS**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Matrix Spike**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	3800		471	3540	4	mg/Kg	⊛	-51	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>MS</b>	<b>MS</b>						
<i>n-Octacosane (Surr)</i>	125		50 - 150								

**Lab Sample ID: 570-67613-A-21-D MSD**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	3800		473	3431	4	mg/Kg	⊛	-74	71 - 174	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>MSD</b>	<b>MSD</b>						
<i>n-Octacosane (Surr)</i>	119		50 - 150								



# QC Association Summary

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

Job ID: 570-67588-1

## 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	

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-67588-1

## 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

# QC Association Summary

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

Job ID: 570-67588-1

## 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

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# QC Association Summary

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

Job ID: 570-67588-1

## 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  
 Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67588-1

## Client Sample ID: S-2.5-A8

## Lab Sample ID: 570-67588-1

Date Collected: 08/16/21 07:50

Matrix: Solid

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	Prep	5035			6.794 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175154	08/29/21 06:36	N5Y3	ECL 1

## Client Sample ID: S-10-A8

## Lab Sample ID: 570-67588-2

Date Collected: 08/16/21 08:05

Matrix: Solid

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	Prep	5035			6.995 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		100	5 mL	5 mL	174789	08/27/21 20:11	A9VE	ECL 2
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 Instrument ID: GC50		1			175154	08/29/21 06:56	N5Y3	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		50	5 mL	5 mL	174789	08/27/21 19:48	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		1			175154	08/29/21 07:16	N5Y3	ECL 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC22		1	5 g	5 mL	174393	08/26/21 03:52	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 Instrument ID: GC50		1			175154	08/29/21 07:37	N5Y3	ECL 1

# Lab Chronicle

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

Job ID: 570-67588-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 04:18	A9VE	ECL 2
Instrument ID: GC22										
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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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		1	5 g	5 mL	174393	08/26/21 05:09	A9VE	ECL 2
Instrument ID: GC22										
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175226	08/29/21 22:16	A1W	ECL 1
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-67588-1

**Client Sample ID: S-2.5-T1**  
**Date Collected: 08/16/21 09:00**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67588-9**  
**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			5.964 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175226	08/29/21 22:58	A1W	ECL 1

**Client Sample ID: S-5-T1**  
**Date Collected: 08/16/21 09:05**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67588-10**  
**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			6.921 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	174393	08/26/21 06:27	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.21 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		1			175226	08/29/21 23:17	A1W	ECL 1

**Client Sample ID: S-7.5-T1**  
**Date Collected: 08/16/21 09:10**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67588-11**  
**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			12.868 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	174393	08/26/21 07:43	A9VE	ECL 2
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 Instrument ID: GC50		1			175226	08/29/21 23:38	A1W	ECL 1

**Client Sample ID: S-10-T1**  
**Date Collected: 08/16/21 09:15**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67588-12**  
**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			2.34 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	174393	08/26/21 08:09	A9VE	ECL 2
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 Instrument ID: GC50		1			175226	08/29/21 23:58	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-67588-1

## Client Sample ID: S-12.5-T1

Lab Sample ID: 570-67588-13

Date Collected: 08/16/21 09:20

Matrix: Solid

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	Prep	5035			6.594 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175226	08/30/21 00:20	A1W	ECL 1

## Client Sample ID: S-2.5-Q4

Lab Sample ID: 570-67588-14

Date Collected: 08/16/21 09:40

Matrix: Solid

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	Prep	5035			6.845 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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	NWTPH-Dx Instrument ID: GC50		1			175226	08/30/21 00:40	A1W	ECL 1

## Client Sample ID: S-5-Q4

Lab Sample ID: 570-67588-15

Date Collected: 08/16/21 09:45

Matrix: Solid

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	Prep	5035			7.54 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	174789	08/27/21 13:16	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 Instrument ID: GC50		5			175226	08/30/21 01:00	A1W	ECL 1

## Client Sample ID: S-7.5-Q4

Lab Sample ID: 570-67588-16

Date Collected: 08/16/21 09:50

Matrix: Solid

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	Prep	5035			6.65 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	174789	08/27/21 13:39	A9VE	ECL 2
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 Instrument ID: GC50		1			175226	08/30/21 01:20	A1W	ECL 1



# Lab Chronicle

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

Job ID: 570-67588-1

**Client Sample ID: S-10-Q4**  
**Date Collected: 08/16/21 09:55**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67588-17**  
**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			7.059 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175226	08/30/21 02:22	A1W	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.848 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		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 Instrument ID: GC50		1			175226	08/30/21 02:42	A1W	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175226	08/30/21 03:02	A1W	ECL 1

**Client Sample ID: S-2.5-P3**  
**Date Collected: 08/16/21 10:15**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67588-20**  
**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			7.106 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		500	5 mL	5 mL	174789	08/27/21 19:01	A9VE	ECL 2
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 Instrument ID: GC50	DL	20			175333	08/30/21 17:04	UJ3K	ECL 1

# Lab Chronicle

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

Job ID: 570-67588-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175228	08/30/21 01:59	N1A	ECL 1

**Client Sample ID: S-5-Q2**  
**Date Collected: 08/16/21 11:05**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67588-22**  
**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			7.104 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	174789	08/27/21 14:49	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	174079	08/24/21 18:32	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		1			175228	08/30/21 02:20	N1A	ECL 1

**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**  
**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			6.613 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175228	08/30/21 02:42	N1A	ECL 1

**Client Sample ID: S-10-Q2**  
**Date Collected: 08/16/21 11:15**  
**Date Received: 08/17/21 10:10**

**Lab Sample ID: 570-67588-24**  
**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			7.669 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	174789	08/27/21 15:36	A9VE	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	NWTPH-Dx Instrument ID: GC48		1			175228	08/30/21 03:48	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-67588-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175228	08/30/21 04:10	N1A	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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	NWTPH-Dx Instrument ID: GC48		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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67588-1

## 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

1

2

3

4

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# Method Summary

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

Job ID: 570-67588-1

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
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

**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 [laina.cole@cardno.com](mailto:laina.cole@cardno.com) Web [www.cardno.com](http://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.

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](mailto:Cecile.deGuia@eurofinset.com)  
[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [570-236357]  
Attachments: 2

> > [Bank information has changed, please refer to remittance information on invoice.](#) < <

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6075400



7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
CalsciencE (714) 895-6494 FAX. (714) 894-7601

**Site Name** Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE 8/17/2021  
PAGE 1 OF 2

**ExxonMobil Engr** Jennifer Sedlachek

LABORATORY CLIENT: **Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855  
TURNAROUND TIME: N/A  
PROJECT CONTACT: Robert Thompson  
SAMPLER(S): Paul Prevou, John Considine

GLOBAL ID # COBEL LOG CODE:  
P O 0314476040 Agreement# A2604415  
LAB USE ONLY  
COOLER RECEIPT

SAME DAY  24 HR  48 HR  72 HR  10 DAYS  
 RWQCB REPORTING  ARCHIVE SAMPLES UNTIL / /  
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)

**SPECIAL INSTRUCTIONS:**  
Perform 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.coile@cardno.com, robert.thompson@cardno.com  
All units in mg/kg.  
Report to: laina.coile@cardno.com, robert.thompson@cardno.com, and camaron.penner-ash@cardno.com

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT-RIX	NO. OF CONT	Perform M/MSD	NNTPH-GX TPH as Gasoline	NNTPH-DX TPH as Diesel and Motor Oil	CONTAINER TYPE
			DATE	TIME						
1	S-2.5-A8	A8	8/16/2021	0750	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
2	S-5-A8	A8	8/16/2021	0805	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
3	S-7.5-A8	A8	8/16/2021	0815	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
4	S-10-A8	A8	8/16/2021	0830	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
5	S-12.5-A8	A8	8/16/2021	0835	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
6	S-2.5-T3	T3	8/16/2021	0840	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
7	S-5-T3	T3	8/16/2021	0845	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
8	S-7.5-T3	T3	8/16/2021	0850	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
9	S-10-T3	T3	8/16/2021	0855	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
10	S-12.5-T3	T3	8/16/2021	0900	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
11	S-2.5-T1	T1	8/16/2021	0905	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
12	S-5-T1	T1	8/16/2021	0910	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
13	S-7.5-T1	T1	8/16/2021	0915	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
14	S-10-T1	T1	8/16/2021	0920	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
15	S-12.5-T1	T1	8/16/2021	0925	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
16	S-2.5-Q4	Q4	8/16/2021	0930	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
17	S-5-Q4	Q4	8/16/2021	0935	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
18	S-7.5-Q4	Q4	8/16/2021	0940	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
19	S-10-Q4	Q4	8/16/2021	0945	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
20	S-12.5-Q4	Q4	8/16/2021	0950	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
21	S-2.5-A6	A6	8/16/2021	0955	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
22	S-5-A6	A6	8/16/2021	1000	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
23	S-7.5-A6	A6	8/16/2021	1005	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
24	S-10-A6	A6	8/16/2021	1010	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
25	S-12.5-A6	A6	8/16/2021	1015	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
26	Trip-Blank	Trip-Blank	8/17/2021		S					
27	EQBT	EQBT	8/17/2021		S					



570-67588 Chain of Custody

**REQUESTED ANALYSIS**

Relinquished by (Signature) *Paul Prevou*  
Relinquished by (Signature) *Paul Prevou*  
Relinquished by (Signature) *Paul Prevou*  
Received by (Signature) *Paul Prevou*  
Received by (Signature) *Paul Prevou*  
Received by (Signature) *Paul Prevou*  
Date & Time: 8/16/2021 4 15 00 PM  
Date & Time: 8/17/21 10:10  
Date & Time: 8/17/21 10:10

3-7/3-3 506  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



075480



7440 LINCOLN WAY  
 GARDEN GROVE, CA 92841-1432  
 TEL: (714) 896-5494 . FAX: (714) 894-7601

**Site Name** Everett Bulk Plant  
 Provide MRN for retail or AFE for major projects  
 Retail Project (MRN)  
 Major Project (AFE)  
 Project Name ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
 DATE: 8/16/2021  
 PAGE: 2 OF 2

ExxonMobil Engr Jennifer Sediachek

LABORATORY CLIENT  
**Cardno**  
 ADDRESS: 309 South Cloverdale Street Unit A13  
 CITY: Seattle, WA 98108  
 TEL: 206-510-5855  
 TURNAROUND TIME:  24 HR  48 HR  72 HR  5 DAYS  10 DAYS

PROJECT CONTACT: Robert Thompson  
 SAMPLE(S): Paul Prevou, John Considine  
 PROJECT ID # COREL LOG CODE: P O 0314476040 Agreement# A2804415

Perform MS/MSD: N/TPH, Gx TPH as Gasoline  
 Motor Oil: N/TPH, Dx TPH as Diesel and

LAB USE ONLY: COOLER RECEIPT  
 Temp: °C

SPECIAL INSTRUCTIONS		SAMPLING		Field Point Name	NO. OF CONT	CONTAINER TYPE
<input type="checkbox"/> RWQCB REPORTING <input checked="" type="checkbox"/> ARCHIVE SAMPLES UNTIL ___/___/___ SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)		DATE	TIME			
LAB USE ONLY	SAMPLE ID	DATE	TIME	Field Point Name	NO. OF CONT	CONTAINER TYPE
	S-2.5-P3	8/16/2021	1015	P3	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-5-P3	8/16/2021	1024	P3	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-7.5-P3	8/16/2021	1101	P3	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-10-P3	8/16/2021	1115	P3	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-12.5-P3	8/16/2021	1130	P3	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-2.5-Q2	8/16/2021	1105	Q2	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-5-Q2	8/16/2021	1110	Q2	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-7.5-Q2	8/16/2021	1115	Q2	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-10-Q2	8/16/2021	1130	Q2	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-2.5-P1	8/16/2021	1145	P1	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-5-P1	8/16/2021	1150	P1	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-7.5-P1	8/16/2021	1155	P1	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-10-P1	8/16/2021	1200	P1	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-2.5-P5	8/16/2021	1205	P5	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-5-P5	8/16/2021	1210	P5	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-7.5-P5	8/16/2021	1215	P5	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-10-P5	8/16/2021	1220	P5	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-2.5-P3	8/16/2021	1225	P3	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-5-P3	8/16/2021	1225	P3	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-7.5-P3	8/16/2021	1225	P3	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-10-P3	8/16/2021	1225	P3	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	Tripp Blank	8/16/2021		Tripp Blank		
	FCBT	8/16/2021		FCBT		

Requested Analysis: PERFORM MS/MSD

Received by (Signature): Paul Prevou  
 Received by (Signature): Jennifer Sediachek  
 Received by (Signature): Paul Prevou  
 Received by (Signature): Jennifer Sediachek

Date & Time: 8/16/2021 4:15:00 PM  
 Date & Time: 8/17/21  
 Date & Time: 8/17/21



W15VU

Part # 15629742



570-67588 Waybill

SHIP DAT  
ACTWT: 4159  
CWO: 699  
DIMS: 19  
BILL RECEIPT

ORIGIN ID:SEAA (281) 389-7025  
GHD  
9725 3RD AVE NE  
SUITE 204  
SEATTLE, WA 98115  
UNITED STATES US

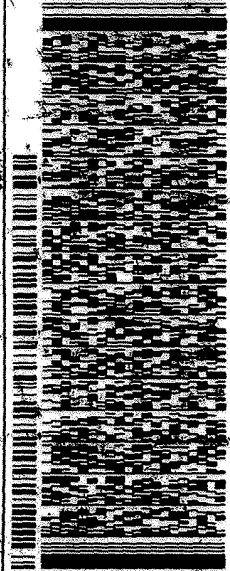
038 C

4159  
08.17

EUROFINS CALSCIENCE INC  
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 892-5628  
REF: DEPT: INV: 28



TUE - 17 AUG 10:30A  
PRIORITY OVERNIGHT

TRK# 2826 2937 4159  
0201

AHS  
92841  
CA-US SNA

92 APVA



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# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67588-1

**Login Number: 67588**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Ramos, Maribel**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## 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

*Cecile de Guia*

---

Authorized for release by:  
9/1/2021 3:04:40 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

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
570-67613-29	S-12.5-L3	Solid	08/17/21 13:45	08/18/21 10:15

# Definitions/Glossary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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
S1+	Surrogate recovery exceeds control limits, high biased.

## Glossary

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

# 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.

#### GC VOA

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-175094. 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.

#### 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  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-2.5-N1

## Lab Sample ID: 570-67613-1

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-N1

## Lab Sample ID: 570-67613-2

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-N1

## Lab Sample ID: 570-67613-3

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: 570-67613-4

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 Cleanup
TPH as Motor Oil Range	11		6.2	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-M2

## Lab Sample ID: 570-67613-5

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 Cleanup
TPH as Motor Oil Range	23		5.7	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-M2

## Lab Sample ID: 570-67613-6

Analyte	Result	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: 570-67613-7

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 Cleanup
TPH as Motor Oil Range	450		10	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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)	89		47	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	970		9.6	mg/Kg	1	✳	NWTPH-Dx	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	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.48		0.24	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	17		6.1	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	18		6.1	mg/Kg	1	✳	NWTPH-Dx	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	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	16		6.2	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	86		6.2	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-L1

## Lab Sample ID: 570-67613-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	210		56	mg/Kg	250	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	660		6.4	mg/Kg	1	✳	NWTPH-Dx	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

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.3		0.95	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	35		16	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	59		16	mg/Kg	1	✳	NWTPH-Dx	Silica Gel 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	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	84		6.7	mg/Kg	1	✳	NWTPH-Dx	Silica Gel 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.

Eurofins Calscience LLC

# Detection Summary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-12.5-L1 (Continued)

## Lab Sample ID: 570-67613-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	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-K2

## Lab Sample ID: 570-67613-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	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 Sample ID: 570-67613-16

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-K2

## Lab Sample ID: 570-67613-17

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-K2

## Lab Sample ID: 570-67613-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.2		0.22	mg/Kg	1	☼	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 Cleanup

## Client Sample ID: S-12.5-K2

## Lab Sample ID: 570-67613-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	580		79	mg/Kg	250	☼	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-M4

## Lab Sample ID: 570-67613-20

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.

Eurofins Calscience LLC

# Detection Summary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-5-M4

## Lab Sample ID: 570-67613-21

Analyte	Result	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 Cleanup
TPH as Motor Oil Range	1400		29	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-M4

## Lab Sample ID: 570-67613-22

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-M4

## Lab Sample ID: 570-67613-23

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: 570-67613-24

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-L3

## Lab Sample ID: 570-67613-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.4		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: 570-67613-26

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 Cleanup
TPH as Motor Oil Range - DL	2600		64	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-L3

## Lab Sample ID: 570-67613-27

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 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.

Eurofins Calscience LLC

# Detection Summary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-10-L3

## Lab Sample ID: 570-67613-28

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

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-2.5-N1

Lab Sample ID: 570-67613-1

Date Collected: 08/17/21 10:35

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)	0.86		0.20	mg/Kg	☼	08/19/21 18:16	08/31/21 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150	08/19/21 18:16	08/31/21 12:48	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	13		5.7	mg/Kg	☼	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

Lab Sample ID: 570-67613-2

Date Collected: 08/17/21 10:40

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	160		7.1	mg/Kg	☼	08/24/21 18:14	08/29/21 15:16	1
TPH as Motor Oil Range	140		7.1	mg/Kg	☼	08/24/21 18:14	08/29/21 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150	08/24/21 18:14	08/29/21 15:16	1

## Client Sample ID: S-10-N1

Lab Sample ID: 570-67613-3

Date Collected: 08/17/21 10:45

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)	1.8		0.21	mg/Kg	☼	08/19/21 18:16	08/28/21 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150	08/19/21 18:16	08/28/21 13:06	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	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

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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

### 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	☼	08/19/21 18:16	08/28/21 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	33	S1-	50 - 150	08/19/21 18:16	08/28/21 13:29	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	15		6.2	mg/Kg	☼	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

## Client Sample ID: S-2.5-M2

Lab Sample ID: 570-67613-5

Date Collected: 08/17/21 10:55

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)	0.96		0.20	mg/Kg	☼	08/19/21 18:16	08/28/21 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150	08/19/21 18:16	08/28/21 21:45	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	160		5.7	mg/Kg	☼	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

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)	190		42	mg/Kg	☼	08/19/21 18:16	08/31/21 17:39	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		50 - 150	08/19/21 18:16	08/31/21 17:39	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	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	91		50 - 150	08/24/21 18:14	08/29/21 16:35	2

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-7.5-M2

Lab Sample ID: 570-67613-7

Date Collected: 08/17/21 11:05

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)	5.1		0.46	mg/Kg	☼	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

### 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		10	mg/Kg	☼	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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum 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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	970		9.6	mg/Kg	☼	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

## Client Sample ID: S-12.5-M2

Lab Sample ID: 570-67613-9

Date Collected: 08/17/21 11:15

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)	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150	08/24/21 18:14	08/29/21 17:34	1

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-2.5-L1

Lab Sample ID: 570-67613-10

Date Collected: 08/17/21 11:30

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)	0.42		0.23	mg/Kg	☼	08/19/21 18:16	08/28/21 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		50 - 150			08/19/21 18:16	08/28/21 19:23	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	16		6.2	mg/Kg	☼	08/24/21 18:14	08/29/21 17:54	1
TPH as Motor Oil Range	86		6.2	mg/Kg	☼	08/24/21 18:14	08/29/21 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150			08/24/21 18:14	08/29/21 17:54	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	210		56	mg/Kg	☼	08/19/21 18:16	08/28/21 19:47	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	☼	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
n-Octacosane (Surr)	95		50 - 150			08/24/21 18:14	08/29/21 18:54	1

## Client Sample ID: S-7.5-L1

Lab Sample ID: 570-67613-12

Date Collected: 08/17/21 11:40

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)	1.3		0.95	mg/Kg	☼	08/19/21 18:16	08/31/21 14:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150			08/19/21 18:16	08/31/21 14:04	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	35		16	mg/Kg	☼	08/24/21 18:14	08/29/21 19:14	1
TPH as Motor Oil Range	59		16	mg/Kg	☼	08/24/21 18:14	08/29/21 19:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			08/24/21 18:14	08/29/21 19:14	1

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	4.9		0.24	mg/Kg	☼	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	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	84		6.7	mg/Kg	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		50 - 150	08/24/21 18:14	08/29/21 19:35	1

## 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

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	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	12		7.3	mg/Kg	☼	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
n-Octacosane (Surr)	95		50 - 150	08/24/21 18:14	08/29/21 19:55	1

## Client Sample ID: S-2.5-K2

Date Collected: 08/17/21 12:20

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67613-15

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)	460		56	mg/Kg	☼	08/19/21 18:16	08/28/21 14:48	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
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

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-5-K2

Date Collected: 08/17/21 12:25

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67613-16

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)	1100		110	mg/Kg	☼	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

### 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	14000		58	mg/Kg	☼	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

Date Collected: 08/17/21 12:30

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67613-17

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)	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)	110		50 - 150	08/19/21 18:16	08/28/21 21:22	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	19		6.1	mg/Kg	☼	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

## Client Sample ID: S-10-K2

Date Collected: 08/17/21 12:35

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67613-18

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)	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

### 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	34		6.5	mg/Kg	☼	08/24/21 18:14	08/29/21 21:16	1
TPH as Motor Oil Range	17		6.5	mg/Kg	☼	08/24/21 18:14	08/29/21 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150	08/24/21 18:14	08/29/21 21:16	1

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-12.5-K2

## Lab Sample ID: 570-67613-19

Date Collected: 08/17/21 12:40

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)	580		79	mg/Kg	☼	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

### 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		8.5	mg/Kg	☼	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

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	13000		280	mg/Kg	☼	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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1100		120	mg/Kg	☼	08/19/21 18:16	08/28/21 15:35	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		50 - 150	08/19/21 18:16	08/28/21 15:35	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	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

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.55	mg/Kg	☼	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

### 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	5500		120	mg/Kg	☼	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

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)	620		71	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.9	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150	08/24/21 18:29	08/29/21 23:24	1

## 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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.0		0.86	mg/Kg	☼	08/19/21 18:16	08/29/21 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150	08/19/21 18:16	08/29/21 02:50	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		15	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	130		50 - 150	08/24/21 18:29	08/29/21 23:46	1

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-2.5-L3

Date Collected: 08/17/21 13:25

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67613-25

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)	1.4		0.34	mg/Kg	☼	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

### 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	8600		29	mg/Kg	☼	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

Date Collected: 08/17/21 13:30

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67613-26

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		0.45	mg/Kg	☼	08/19/21 18:16	08/29/21 03:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55		50 - 150			08/19/21 18:16	08/29/21 03:37	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	7000		64	mg/Kg	☼	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

## Client Sample ID: S-7.5-L3

Date Collected: 08/17/21 13:35

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67613-27

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)	0.34		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 - Northwest - Semi-Volatile Petroleum Products (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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	127		50 - 150			08/24/21 18:31	08/30/21 00:52	1

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

**Client Sample ID: S-10-L3**

**Lab Sample ID: 570-67613-28**

Date Collected: 08/17/21 13:40

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)	210		59	mg/Kg	☼	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

**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		6.4	mg/Kg	☼	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

**Client Sample ID: S-12.5-L3**

**Lab Sample ID: 570-67613-29**

Date Collected: 08/17/21 13:45

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		13	mg/Kg	☼	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  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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
LCS 570-175094/3	Lab Control Sample	94
LCS 570-175182/32	Lab Control Sample	76
LCS 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
MB 570-175493/6	Method Blank	79

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)



# Surrogate Summary

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

**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)
570-67613-1	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
570-67613-20 - 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
570-67613-21 MSD	S-5-M4	129
570-67613-21 MSD	S-5-M4	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
LCS 570-174079/2-A	Lab Control Sample	129
LCS 570-174079/6-A	Lab Control Sample	122
LCSD 570-174063/3-A	Lab Control Sample Dup	93
LCSD 570-174063/7-A	Lab Control Sample Dup	88
LCSD 570-174079/3-A	Lab Control Sample Dup	119
LCSD 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

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-175094/5**  
**Matrix: Solid**  
**Analysis Batch: 175094**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/28/21 11:55	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59		50 - 150				08/28/21 11:55	1

**Lab Sample ID: MB 570-175094/6**  
**Matrix: Solid**  
**Analysis Batch: 175094**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/28/21 12:19	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 150				08/28/21 12:19	20

**Lab Sample ID: LCS 570-175094/3**  
**Matrix: Solid**  
**Analysis Batch: 175094**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.10	2.232		mg/Kg		106	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	94		50 - 150				

**Lab Sample ID: LCSD 570-175094/4**  
**Matrix: Solid**  
**Analysis Batch: 175094**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.215		mg/Kg		104	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	80		50 - 150						

**Lab Sample ID: MB 570-175182/34**  
**Matrix: Solid**  
**Analysis Batch: 175182**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/28/21 23:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55		50 - 150				08/28/21 23:42	1

# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-175182/32**  
**Matrix: Solid**  
**Analysis Batch: 175182**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.172		mg/Kg		102	77 - 128
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		76					50 - 150

**Lab Sample ID: LCSD 570-175182/33**  
**Matrix: Solid**  
**Analysis Batch: 175182**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.10	2.175		mg/Kg		104	77 - 128	0	16
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		85					50 - 150		

**Lab Sample ID: MB 570-175493/5**  
**Matrix: Solid**  
**Analysis Batch: 175493**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/31/21 08:13	1
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	79		50 - 150				08/31/21 08:13	1

**Lab Sample ID: MB 570-175493/6**  
**Matrix: Solid**  
**Analysis Batch: 175493**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/31/21 08:38	20
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	79		50 - 150				08/31/21 08:38	20

**Lab Sample ID: LCS 570-175493/3**  
**Matrix: Solid**  
**Analysis Batch: 175493**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.762		mg/Kg		83	77 - 128
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		93					50 - 150

# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-175493/4**  
**Matrix: Solid**  
**Analysis Batch: 175493**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.759		mg/Kg		83	77 - 128	0	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	90		50 - 150						

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-174063/1-A**  
**Matrix: Solid**  
**Analysis Batch: 175226**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174063**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/24/21 18:14	08/29/21 11:59	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/24/21 18:14	08/29/21 11:59	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	99		50 - 150			08/24/21 18:14	08/29/21 11:59	1

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	453.8		mg/Kg		113	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	101		50 - 150				

**Lab Sample ID: LCS 570-174063/6-A**  
**Matrix: Solid**  
**Analysis Batch: 175226**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174063**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	418.0		mg/Kg		104	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	96		50 - 150				

**Lab Sample ID: LCSD 570-174063/3-A**  
**Matrix: Solid**  
**Analysis Batch: 175226**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174063**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	442.8		mg/Kg		111	76 - 126	2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
n-Octacosane (Surr)	93		50 - 150						

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# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-174063/7-A**  
**Matrix: Solid**  
**Analysis Batch: 175226**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174063**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Motor Oil (C17-C44)	400	401.7		mg/Kg		100	71 - 139	4	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	88		50 - 150							

**Lab Sample ID: 570-67613-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 175226**

**Client Sample ID: S-2.5-N1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174063**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	16		461	521.5		mg/Kg	⊛	110	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	95		50 - 150								

**Lab Sample ID: 570-67613-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 175226**

**Client Sample ID: S-2.5-N1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174063**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	ND		465	479.1		mg/Kg	⊛	100	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	92		50 - 150								

**Lab Sample ID: 570-67613-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175226**

**Client Sample ID: S-2.5-N1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174063**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	16		464	555.1		mg/Kg	⊛	116	37 - 175	6	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	101		50 - 150								

**Lab Sample ID: 570-67613-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175226**

**Client Sample ID: S-2.5-N1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174063**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	ND		459	483.2		mg/Kg	⊛	102	71 - 174	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	98		50 - 150								

# QC Sample Results

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-174079/1-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	MB MB		RL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier								
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
Surrogate	MB MB		Limits	Prepared		Analyzed		Dil Fac		
%Recovery	Qualifier									
n-Octacosane (Surr)	124		50 - 150			08/24/21 18:28	08/29/21 12:54			1

**Lab Sample ID: LCS 570-174079/2-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier					
TPH as Diesel (C10-C28)	400	454.4		mg/Kg		114	76 - 126	
Surrogate	LCS LCS		Limits					
%Recovery	Qualifier							
n-Octacosane (Surr)	129		50 - 150					

**Lab Sample ID: LCS 570-174079/6-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier					
TPH as Motor Oil (C17-C44)	400	439.9		mg/Kg		110	71 - 139	
Surrogate	LCS LCS		Limits					
%Recovery	Qualifier							
n-Octacosane (Surr)	122		50 - 150					

**Lab Sample ID: LCSD 570-174079/3-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits		RPD	Limit
		Result	Qualifier							
TPH as Diesel (C10-C28)	400	441.2		mg/Kg		110	76 - 126	3	20	
Surrogate	LCSD LCSD		Limits							
%Recovery	Qualifier									
n-Octacosane (Surr)	119		50 - 150							

**Lab Sample ID: LCSD 570-174079/7-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174079**

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits		RPD	Limit
		Result	Qualifier							
TPH as Motor Oil (C17-C44)	400	406.7		mg/Kg		102	71 - 139	8	20	
Surrogate	LCSD LCSD		Limits							
%Recovery	Qualifier									
n-Octacosane (Surr)	105		50 - 150							

# QC Sample Results

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-67613-21 MS**

**Matrix: Solid**

**Analysis Batch: 175228**

**Client Sample ID: S-5-M4**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 174079**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
TPH as Diesel (C10-C28)	8000	F2	464	5916	4	mg/Kg	⊛	-446		37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS</b>	<b>MS</b>	<b>Qualifiers</b>	<b>Limits</b>					
<i>n-Octacosane (Surr)</i>	117					50 - 150				

**Lab Sample ID: 570-67613-21 MS**

**Matrix: Solid**

**Analysis Batch: 175228**

**Client Sample ID: S-5-M4**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 174079**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
TPH as Motor Oil (C17-C44)	3800		471	3540	4	mg/Kg	⊛	-51		71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS</b>	<b>MS</b>	<b>Qualifiers</b>	<b>Limits</b>					
<i>n-Octacosane (Surr)</i>	125					50 - 150				

**Lab Sample ID: 570-67613-21 MSD**

**Matrix: Solid**

**Analysis Batch: 175228**

**Client Sample ID: S-5-M4**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 174079**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
TPH as Diesel (C10-C28)	8000	F2	469	7539	4 F2	mg/Kg	⊛	-95		37 - 175	24	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>	<b>Qualifiers</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	129					50 - 150						

**Lab Sample ID: 570-67613-21 MSD**

**Matrix: Solid**

**Analysis Batch: 175228**

**Client Sample ID: S-5-M4**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 174079**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
TPH as Motor Oil (C17-C44)	3800		473	3431	4	mg/Kg	⊛	-74		71 - 174	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>	<b>Qualifiers</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	119					50 - 150						

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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	

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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	

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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 - DL	S-5-L3	Silica Gel Cleanup	Solid	NWTPH-Dx	174079

# Lab Chronicle

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-2.5-N1

Lab Sample ID: 570-67613-1

Date Collected: 08/17/21 10:35

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	175493	08/31/21 12:48	P1R	ECL 2
Instrument ID: GC22										
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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-10-N1

Lab Sample ID: 570-67613-3

Date Collected: 08/17/21 10:45

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.647 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-2.5-M2

## Lab Sample ID: 570-67613-5

Date Collected: 08/17/21 10:55

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175226	08/29/21 16:15	A1W	ECL 1

## Client Sample ID: S-5-M2

## Lab Sample ID: 570-67613-6

Date Collected: 08/17/21 11:00

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.554 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		100	5 mL	5 mL	175493	08/31/21 17:39	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		2			175226	08/29/21 16:35	A1W	ECL 1

## Client Sample ID: S-7.5-M2

## Lab Sample ID: 570-67613-7

Date Collected: 08/17/21 11:05

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.543 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	175094	08/28/21 18:13	P1R	ECL 2
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 Instrument ID: GC50		1			175226	08/29/21 16:55	A1W	ECL 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.18 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		100	5 mL	5 mL	175493	08/31/21 15:20	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 Instrument ID: GC50		1			175226	08/29/21 17:14	A1W	ECL 1

# Lab Chronicle

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-12.5-M2

## Lab Sample ID: 570-67613-9

Date Collected: 08/17/21 11:15

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	175493	08/31/21 13:39	P1R	ECL 2
Instrument ID: GC22										
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
Instrument ID: GC50										

## Client Sample ID: S-2.5-L1

## Lab Sample ID: 570-67613-10

Date Collected: 08/17/21 11:30

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.905 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 19:23	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.21 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 17:54	A1W	ECL 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-7.5-L1

## Lab Sample ID: 570-67613-12

Date Collected: 08/17/21 11:40

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175226	08/29/21 19:35	A1W	ECL 1

**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**  
**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			6.428 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	175094	08/28/21 20:58	P1R	ECL 2
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 Instrument ID: GC50		1			175226	08/29/21 19:55	A1W	ECL 1

**Client Sample ID: S-2.5-K2**  
**Date Collected: 08/17/21 12:20**  
**Date Received: 08/18/21 10:15**

**Lab Sample ID: 570-67613-15**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.899 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		250	5 mL	5 mL	175094	08/28/21 14:48	P1R	ECL 2
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 Instrument ID: GC50	DL	10			175333	08/30/21 16:04	UJ3K	ECL 1

**Client Sample ID: S-5-K2**  
**Date Collected: 08/17/21 12:25**  
**Date Received: 08/18/21 10:15**

**Lab Sample ID: 570-67613-16**  
**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			6.902 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		500	5 mL	5 mL	175094	08/28/21 15:11	P1R	ECL 2
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 Instrument ID: GC50	DL	10			175333	08/30/21 16:24	UJ3K	ECL 1

# Lab Chronicle

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-7.5-K2

## Lab Sample ID: 570-67613-17

Date Collected: 08/17/21 12:30

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175226	08/29/21 20:56	A1W	ECL 1

## Client Sample ID: S-10-K2

## Lab Sample ID: 570-67613-18

Date Collected: 08/17/21 12:35

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175226	08/29/21 21:16	A1W	ECL 1

## Client Sample ID: S-12.5-K2

## Lab Sample ID: 570-67613-19

Date Collected: 08/17/21 12:40

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		250	5 mL	5 mL	175094	08/28/21 14:22	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 Instrument ID: GC50		1			175226	08/29/21 21:36	A1W	ECL 1

## Client Sample ID: S-2.5-M4

## Lab Sample ID: 570-67613-20

Date Collected: 08/17/21 13:00

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.047 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	175182	08/29/21 01:17	P1R	ECL 2
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 Instrument ID: GC50	DL	50			175333	08/30/21 16:44	UJ3K	ECL 1



# Lab Chronicle

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.987 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
Instrument 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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.653 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 01:40	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174079	08/24/21 18:29	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175228	08/29/21 23:03	N1A	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-10-M4

Lab Sample ID: 570-67613-23

Date Collected: 08/17/21 13:15

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## Client Sample ID: S-2.5-L3

## Lab Sample ID: 570-67613-25

Date Collected: 08/17/21 13:25

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		5			175228	08/30/21 00:09	N1A	ECL 1

## Client Sample ID: S-5-L3

## Lab Sample ID: 570-67613-26

Date Collected: 08/17/21 13:30

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.552 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	175182	08/29/21 03:37	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC	DL		10.07 g	10 mL	174079	08/24/21 18:31	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48	DL	10			175405	08/30/21 16:47	N1A	ECL 1

## Client Sample ID: S-7.5-L3

## Lab Sample ID: 570-67613-27

Date Collected: 08/17/21 13:35

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.101 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175228	08/30/21 00:52	N1A	ECL 1

## Client Sample ID: S-10-L3

## Lab Sample ID: 570-67613-28

Date Collected: 08/17/21 13:40

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		250	5 mL	5 mL	175094	08/28/21 15:58	P1R	ECL 2
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 Instrument ID: GC48		1			175228	08/30/21 01:14	N1A	ECL 1

# Lab Chronicle

Client: Cardno, Inc  
 Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

**Client Sample ID: S-12.5-L3**

**Lab Sample ID: 570-67613-29**

**Date Collected: 08/17/21 13:45**

**Matrix: Solid**

**Date Received: 08/18/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.694 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
Instrument 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
Instrument 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  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## 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

1

2

3

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15

# Method Summary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

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
5035	Closed System Purge and Trap	SW846	ECL 2

#### Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

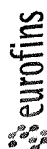
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### 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

10/13



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 AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**

DATE: 8/17/2021

PAGE 1 OF 2

ExxonMobil Engr' Jennifer Sedlachek

LABORATORY CLIENT  
**Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855  
TURNAROUND TIME:  SAME DAY  24 HR  48 HR  72 HR  5 DAYS  10 DAYS  
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  ARCHIVE SAMPLES UNTIL \_\_\_\_\_  
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.thompson@cardno.com  
All units in mg/kg.  
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com

PROJECT CONTACT: Robert Thompson  
SAMPLER(S): Paul Prevou, John Considine  
GLOBAL ID # COELT LOG CODE: P O 0314476040, Agreement# A2604415  
LAB USE ONLY: [ ]  
COELT RECEIPT: [ ]  
Temp: [ ]

**REQUESTED ANALYSIS**

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	CONTAINER TYPE
			DATE	TIME		
	1 S-2.5-M1	M1	8/17/2021	1035	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	2 S-5-M1	M1	8/17/2021	1040	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	3 S-7.5-M1	M1	8/17/2021	1045	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	4 S-10-M1	M1	8/17/2021	1050	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	5 S-12.5-M1	M1	8/17/2021	1055	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	6 S-5-M2	M2	8/17/2021	1100	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	7 S-7.5-M2	M2	8/17/2021	1105	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	8 S-10-M2	M2	8/17/2021	1110	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	9 S-12.5-M2	M2	8/17/2021	1115	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	10 S-2.5-L1	L1	8/17/2021	1120	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	11 S-5-L1	L1	8/17/2021	1125	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	12 S-7.5-L1	L1	8/17/2021	1130	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	13 S-10-L1	L1	8/17/2021	1135	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	14 S-12.5-L1	L1	8/17/2021	1140	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	15 S-2.5-K2	K2	8/17/2021	1205	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	16 S-5-K2	K2	8/17/2021	1210	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	17 S-7.5-K2	K2	8/17/2021	1215	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	18 S-10-K2	K2	8/17/2021	1220	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	19 S-12.5-K2	K2	8/17/2021	1225	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	Trip-Blank	Trip-Blank	8/17/2021			
	EQB1	EQB1	8/17/2021			

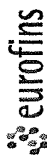
Perform MS/MSD  
NWTPH-GX - TPH as Gasoline  
NWTPH-DX - TPH as Diesel and Motor Oil  
Date & Time: 8/17/2021 4:15:00 PM  
Date, & Time: 8/18/21 10:15  
Date, & Time: [ ]

Relinquished by (Signature) Paul Prevou  
Received by (Signature) [Signature]  
Relinquished by (Signature) [Signature]  
Received by (Signature) [Signature]  
Relinquished by (Signature) [Signature]  
Received by (Signature) [Signature]

Relinquished by (Signature) [Signature]  
Received by (Signature) [Signature]  
Relinquished by (Signature) [Signature]  
Received by (Signature) [Signature]

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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 AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name**  
ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE 8/17/2021  
PAGE 2 OF 2

ExxonMobil Engr. Jennifer Sedlachek

LABORATORY CLIENT  
**Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855  
TURNAROUND TIME: N/A  
 SAME DAY  24 HR  48 HR  72 HR  5 DAYS  10 DAYS  
 RWQCB REPORTING  ARCHIVE SAMPLES UNTIL  
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.thompson@cardno.com  
All units in mg/kg.  
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com

GLOBAL ID # COELT LOG CODE  
PROJECT CONTACT: Robert Thompson  
SAMPLER(S): Paul Prevou, John Considine  
P O 0314476040, Agreement# A2604415  
LAB USE ONLY  
QUALITY RECEIPT  
Temp

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	MATERIAL	RISK	TIME	DATE	Perform M/MS/SD	N/TPH-Gx - TPH as Gasoline	N/TPH-Dx - TPH as Diesel and Motor Oil	CONTAINER TYPE
			DATE	TIME									
	20 S-2-5-MH	MH		1300	4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	21 S-5-MH	MH		1305	4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	22 S-7-5-MH	MH		1310	4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	23 S-10-MH	MH		1315	4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	24 S-12-5-MH	MH		1320	4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	25 S-2-5-L3	L3		1325	4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	26 S-5-L3	L3		1330	4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	27 S-7-5-L3	L3		1335	4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	28 S-10-L3	L3		1340	4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	29 S-12-5-L3	L3		1345	4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-2-5				4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-5				4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-7-5				4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-10				4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-12-5				4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-2-5				4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-5				4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-7-5				4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-10				4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	S-12-5				4	S			8/17/2021	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	Trip Blank	Trip Blank							8/17/2021				
	EQB1	EQB1							8/17/2021				

Requested by (Signature): Paul Prevou  
Received by (Signature): Jennifer Sedlachek  
Date & Time: 8/17/2021 4:15:00 PM  
Requested by (Signature): Paul Prevou  
Received by (Signature): Jennifer Sedlachek  
Date & Time: 8/18/21 10:15

Relinquished by (Signature) L COC 210809 to 210813\_use me



# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67613-1

**Login Number: 67613**

**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.	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	





## 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

*Cecile de Guia*

---

Authorized for release by:  
9/1/2021 7:07:06 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67715-1

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
570-67715-27	S-16-N3	Solid	08/17/21 09:45	08/18/21 10:15

# Definitions/Glossary

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

Job ID: 570-67715-1

## Qualifiers

### GC VOA

Qualifier	Qualifier Description
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

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.
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.
α	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

# 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 notified 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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67715-1

---

## 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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# Detection Summary

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

Job ID: 570-67715-1

## Client Sample ID: S-2.5-N7

## Lab Sample ID: 570-67715-1

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: 570-67715-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1200		170	mg/Kg	500	✘	NWTPH-Gx	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 Cleanup

## Client Sample ID: S-7.5-N7

## Lab Sample ID: 570-67715-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	9500		890	mg/Kg	500	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	24000		170	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	1000		170	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-N7

## Lab Sample ID: 570-67715-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1400		350	mg/Kg	250	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	4400		46	mg/Kg	2	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1800		46	mg/Kg	2	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-N7

## Lab Sample ID: 570-67715-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.4		0.85	mg/Kg	1	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	320		21	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	190		21	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-O6

## Lab Sample ID: 570-67715-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	170		58	mg/Kg	250	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	1000		52	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1700		52	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-O6

## Lab Sample ID: 570-67715-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2800		490	mg/Kg	2500	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	2000		59	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67715-1

## Client Sample ID: S-5-O6 (Continued)

## Lab Sample ID: 570-67715-7

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-O6

## Lab Sample ID: 570-67715-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	200		24	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	220		5.7	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-O6

## Lab Sample ID: 570-67715-9

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 Cleanup
TPH as Motor Oil Range	27		6.1	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-O6

## Lab Sample ID: 570-67715-10

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 Cleanup
TPH as Motor Oil Range	210		13	mg/Kg	2	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-N5

## Lab Sample ID: 570-67715-11

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 Cleanup
TPH as Motor Oil Range	6300		380	mg/Kg	50	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-N5

## Lab Sample ID: 570-67715-12

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-N5

## Lab Sample ID: 570-67715-13

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-N5

## Lab Sample ID: 570-67715-14

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 Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Detection Summary

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

Job ID: 570-67715-1

## Client Sample ID: S-12.5-N5

Lab Sample ID: 570-67715-15

No Detections.

## Client Sample ID: S-10-O4

Lab Sample ID: 570-67715-16

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

Lab Sample ID: 570-67715-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	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	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-O6 DUP

Lab Sample ID: 570-67715-18

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

Lab Sample ID: 570-67715-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1700	H	190	mg/Kg	1000	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	930		5.5	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	9.5		5.5	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-N3

Lab Sample ID: 570-67715-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	880	H	110	mg/Kg	500	✳	NWTPH-Gx	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

Lab Sample ID: 570-67715-21

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

Lab Sample ID: 570-67715-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.25		0.22	mg/Kg	1	✳	NWTPH-Gx	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67715-1

## Client Sample ID: S-5-O2

## Lab Sample ID: 570-67715-23

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 Cleanup

## Client Sample ID: S-7.5-O2

## Lab Sample ID: 570-67715-24

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-O2

## Lab Sample ID: 570-67715-25

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: 570-67715-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	14		6.3	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-16-N3

## Lab Sample ID: 570-67715-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	15		11	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67715-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
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-Bromofluorobenzene (Surr)	72		50 - 150			08/23/21 16:31	08/31/21 15:13	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	6100		28	mg/Kg	☼	08/25/21 18:19	08/30/21 10:44	5
TPH as Motor Oil Range	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

Date Collected: 08/17/21 06:50

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-2

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		170	mg/Kg	☼	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

### 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	1600		6.7	mg/Kg	☼	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

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum 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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	24000		170	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-67715-1

## Client Sample ID: S-10-N7

Date Collected: 08/17/21 07:00

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-4

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)	1400		350	mg/Kg	☼	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

### 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	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

## 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

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)	4.4		0.85	mg/Kg	☼	08/23/21 16:31	08/29/21 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	53		50 - 150	08/23/21 16:31	08/29/21 00:29	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	320		21	mg/Kg	☼	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

Date Collected: 08/17/21 07:35

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-6

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		58	mg/Kg	☼	08/23/21 16:31	08/31/21 16:25	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61		50 - 150	08/23/21 16:31	08/31/21 16:25	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	1000		52	mg/Kg	☼	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

# Client Sample Results

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

Job ID: 570-67715-1

## Client Sample ID: S-5-O6

Date Collected: 08/17/21 07:40

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-7

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)	2800		490	mg/Kg	☼	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

### 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	2000		59	mg/Kg	☼	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

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-8

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)	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)	70		50 - 150	08/23/21 16:31	08/31/21 15:36	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	220		5.7	mg/Kg	☼	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

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-9

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)	2900		590	mg/Kg	☼	08/23/21 16:31	08/31/21 18:49	2500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		50 - 150	08/23/21 16:31	08/31/21 18:49	2500

### 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	600		6.1	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	90		50 - 150	08/25/21 18:19	08/30/21 07:08	1

# Client Sample Results

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

Job ID: 570-67715-1

## Client Sample ID: S-12.5-O6

Lab Sample ID: 570-67715-10

Date Collected: 08/17/21 07:55

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)	210		22	mg/Kg	☼	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

### 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	260		13	mg/Kg	☼	08/25/21 18:19	08/30/21 07:28	2
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 Fac
n-Octacosane (Surr)	94		50 - 150	08/25/21 18:19	08/30/21 07:28	2

## 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 - Northwest - Volatile Petroleum 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)	100		50 - 150	08/23/21 16:31	08/31/21 17:13	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	110000		380	mg/Kg	☼	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

## Client Sample ID: S-5-N5

Lab Sample ID: 570-67715-12

Date Collected: 08/17/21 08:25

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)	1100	H	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

### 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	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	5

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# Client Sample Results

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

Job ID: 570-67715-1

## Client Sample ID: S-7.5-N5

Date Collected: 08/17/21 08:30

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-13

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)	0.87		0.21	mg/Kg	☼	08/23/21 16:31	08/31/21 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		50 - 150	08/23/21 16:31	08/31/21 23:29	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	☼	08/25/21 18:19	08/30/21 17:30	1
TPH as Motor Oil Range	ND		6.0	mg/Kg	☼	08/25/21 18:19	08/30/21 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150	08/25/21 18:19	08/30/21 17:30	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	9.4		0.24	mg/Kg	☼	08/23/21 16:31	08/31/21 23:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150	08/23/21 16:31	08/31/21 23:53	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	32		6.0	mg/Kg	☼	08/25/21 18:19	08/30/21 17:51	1
TPH as Motor Oil Range	ND		6.0	mg/Kg	☼	08/25/21 18:19	08/30/21 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	118		50 - 150	08/25/21 18:19	08/30/21 17:51	1

## 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

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		0.98	mg/Kg	☼	08/23/21 16:31	08/31/21 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150	08/23/21 16:31	08/31/21 19:00	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		29	mg/Kg	☼	08/25/21 18:19	08/30/21 18:13	1
TPH as Motor Oil Range	ND		29	mg/Kg	☼	08/25/21 18:19	08/30/21 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150	08/25/21 18:19	08/30/21 18:13	1

# Client Sample Results

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

Job ID: 570-67715-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	66	H	4.7	mg/Kg	☼	08/23/21 16:31	09/01/21 10:25	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150			08/23/21 16:31	09/01/21 10:25	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	230		6.1	mg/Kg	☼	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

Date Collected: 08/17/21 09:20

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-17

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)	1.2		0.74	mg/Kg	☼	08/23/21 16:31	08/31/21 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			08/23/21 16:31	08/31/21 18:34	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		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

Date Collected: 08/17/21 08:00

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-18

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)	55		3.9	mg/Kg	☼	08/23/21 16:31	08/31/21 23:44	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	165	S1+	50 - 150			08/23/21 16:31	08/31/21 23:44	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	1100		5.8	mg/Kg	☼	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



# Client Sample Results

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

Job ID: 570-67715-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1700	H	190	mg/Kg	☼	08/23/21 16:31	09/01/21 10:51	1000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150			08/23/21 16:31	09/01/21 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	☼	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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		50 - 150			08/25/21 18:20	08/30/21 19:39	1

## Client Sample ID: S-5-N3

Date Collected: 08/17/21 09:35

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-20

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)	880	H	110	mg/Kg	☼	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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	780		6.0	mg/Kg	☼	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
n-Octacosane (Surr)	139		50 - 150			08/25/21 18:20	08/31/21 15:28	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	193	S1+	50 - 150			08/23/21 16:31	08/31/21 23:15	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	☼	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

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# Client Sample Results

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

Job ID: 570-67715-1

## Client Sample ID: S-2.5-O2

Lab Sample ID: 570-67715-22

Date Collected: 08/17/21 10:05

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)	0.25		0.22	mg/Kg	☼	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

### 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	45		6.1	mg/Kg	☼	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

## Client Sample ID: S-5-O2

Lab Sample ID: 570-67715-23

Date Collected: 08/17/21 10:10

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)	ND		0.18	mg/Kg	☼	08/23/21 16:31	08/31/21 19:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	0	S1-	50 - 150			08/23/21 16:31	08/31/21 19:51	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		12	mg/Kg	☼	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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	86		50 - 150			08/25/21 18:22	08/29/21 17:11	2

## 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

### 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		0.47	mg/Kg	☼	08/23/21 16:31	08/31/21 20:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150			08/23/21 16:31	08/31/21 20:16	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	240		74	mg/Kg	☼	08/25/21 18:22	08/29/21 17:33	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

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# Client Sample Results

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

Job ID: 570-67715-1

## 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

### 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		0.66	mg/Kg	☼	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
n-Octacosane (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		6.3	mg/Kg	☼	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

Date Collected: 08/17/21 09:45

Date Received: 08/18/21 10:15

## Lab Sample ID: 570-67715-27

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	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		11	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		50 - 150	08/25/21 18:22	08/29/21 18:39	1

# Surrogate Summary

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

Job ID: 570-67715-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (50-150)
570-67715-1	S-2.5-N7	72
570-67715-2	S-5-N7	97
570-67715-3	S-7.5-N7	63
570-67715-4	S-10-N7	82
570-67715-5	S-12.5-N7	53
570-67715-6	S-2.5-O6	61
570-67715-7	S-5-O6	70
570-67715-8	S-7.5-O6	70
570-67715-9	S-10-O6	64
570-67715-10	S-12.5-O6	67
570-67715-11	S-2.5-N5	100
570-67715-12	S-5-N5	283 S1+
570-67715-13	S-7.5-N5	115
570-67715-14	S-10-N5	75
570-67715-15	S-12.5-N5	71
570-67715-16	S-10-O4	71
570-67715-17	S-12.5-O4	72
570-67715-18	S-7.5-O6 DUP	165 S1+
570-67715-19	S-2.5-N3	90
570-67715-20	S-5-N3	132
570-67715-21	S-7.5-N3	193 S1+
570-67715-22	S-2.5-O2	80
570-67715-23	S-5-O2	0 S1-
570-67715-24	S-7.5-O2	73
570-67715-25	S-10-O2	69
570-67715-26	S-12.5-O2	70
570-67715-27	S-16-N3	85
LCS 570-175182/32	Lab Control Sample	76
LCS 570-175493/3	Lab Control Sample	93
LCS 570-175737/77	Lab Control Sample	81
LCS 570-175849/14	Lab Control Sample	106
LCS 570-175886/37	Lab Control Sample	89
LCSD 570-175182/33	Lab Control Sample Dup	85
LCSD 570-175493/4	Lab Control Sample Dup	90
LCSD 570-175737/78	Lab Control Sample Dup	81
LCSD 570-175849/15	Lab Control Sample Dup	108
LCSD 570-175886/38	Lab Control Sample Dup	93
MB 570-175182/34	Method Blank	55
MB 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
MB 570-175886/40	Method Blank	81

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

# 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)

Lab Sample ID	Client Sample ID	OTCSN (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-O6 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
LCS 570-174384/2-A	Lab Control Sample	120
LCS 570-174384/6-A	Lab Control Sample	116
LCS 570-174385/2-A	Lab Control Sample	119
LCS 570-174385/6-A	Lab Control Sample	118
LCSD 570-174384/3-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
LCSD 570-174385/7-A	Lab Control Sample Dup	120
MB 570-174384/1-A	Method Blank	120
MB 570-174385/1-A	Method Blank	120

**Surrogate Legend**

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 570-67715-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-175182/34**  
**Matrix: Solid**  
**Analysis Batch: 175182**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/28/21 23:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55		50 - 150				08/28/21 23:42	1

**Lab Sample ID: LCS 570-175182/32**  
**Matrix: Solid**  
**Analysis Batch: 175182**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.172		mg/Kg		102	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	76		50 - 150				

**Lab Sample ID: LCSD 570-175182/33**  
**Matrix: Solid**  
**Analysis Batch: 175182**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.10	2.175		mg/Kg		104	77 - 128	0	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	85		50 - 150						

**Lab Sample ID: MB 570-175493/5**  
**Matrix: Solid**  
**Analysis Batch: 175493**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/31/21 08:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150				08/31/21 08:13	1

**Lab Sample ID: LCS 570-175493/3**  
**Matrix: Solid**  
**Analysis Batch: 175493**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.762		mg/Kg		83	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	93		50 - 150				

# QC Sample Results

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

Job ID: 570-67715-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-175493/4**  
**Matrix: Solid**  
**Analysis Batch: 175493**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.759		mg/Kg		83	77 - 128	0	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	90		50 - 150						

**Lab Sample ID: MB 570-175737/51**  
**Matrix: Solid**  
**Analysis Batch: 175737**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/31/21 09:10	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>					
4-Bromofluorobenzene (Surr)	74		50 - 150					
						<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							08/31/21 09:10	20

**Lab Sample ID: LCS 570-175737/77**  
**Matrix: Solid**  
**Analysis Batch: 175737**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TPH as Gasoline (C4-C13)	2.10	2.148		mg/Kg		102	77 - 128		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	81		50 - 150						

**Lab Sample ID: LCSD 570-175737/78**  
**Matrix: Solid**  
**Analysis Batch: 175737**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.020		mg/Kg		95	77 - 128	6	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	81		50 - 150						

**Lab Sample ID: MB 570-175849/4**  
**Matrix: Solid**  
**Analysis Batch: 175849**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/31/21 20:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>					
4-Bromofluorobenzene (Surr)	78		50 - 150					
						<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							08/31/21 20:44	1

# QC Sample Results

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

Job ID: 570-67715-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-175849/5**  
**Matrix: Solid**  
**Analysis Batch: 175849**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/31/21 21:19	20
Surrogate	MB %Recovery	MB 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**  
**Matrix: Solid**  
**Analysis Batch: 175849**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.015		mg/Kg		95	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	106		50 - 150				

**Lab Sample ID: LCSD 570-175849/15**  
**Matrix: Solid**  
**Analysis Batch: 175849**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.11	2.026		mg/Kg		96	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		50 - 150						

**Lab Sample ID: MB 570-175886/39**  
**Matrix: Solid**  
**Analysis Batch: 175886**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/31/21 23:47	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150				08/31/21 23:47	20

**Lab Sample ID: MB 570-175886/40**  
**Matrix: Solid**  
**Analysis Batch: 175886**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			09/01/21 00:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150				09/01/21 00:13	1



# QC Sample Results

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

Job ID: 570-67715-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-175886/37**  
**Matrix: Solid**  
**Analysis Batch: 175886**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	1.796		mg/Kg		84	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	89		50 - 150				

**Lab Sample ID: LCSD 570-175886/38**  
**Matrix: Solid**  
**Analysis Batch: 175886**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.858		mg/Kg		87	77 - 128	3	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	93		50 - 150						

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-174384/1-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174384**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/25/21 18:19	08/29/21 16:07	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/25/21 18:19	08/29/21 16:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	120		50 - 150			08/25/21 18:19	08/29/21 16:07	1

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	407.9		mg/Kg		102	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	420.5		mg/Kg		105	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	116		50 - 150				

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# QC Sample Results

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

Job ID: 570-67715-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-174384/3-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174384**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	428.9		mg/Kg		107	76 - 126	5	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	119		50 - 150						

**Lab Sample ID: LCSD 570-174384/7-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174384**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	402.6		mg/Kg		101	71 - 139	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	115		50 - 150						

**Lab Sample ID: 570-67715-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: S-2.5-N7**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174384**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	6900		454	6533	4	mg/Kg	⊛	-74	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	131		50 - 150								

**Lab Sample ID: 570-67715-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: S-2.5-N7**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174384**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	5500	E F2	455	4561	E 4	mg/Kg	⊛	-197	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	102		50 - 150								

**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**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	6900		441	7429	4	mg/Kg	⊛	127	37 - 175	13	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	124		50 - 150								

# QC Sample Results

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

Job ID: 570-67715-1

## 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**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	5500	E F2	444	8761	E 4 F2	mg/Kg	☼	744	71 - 174	63	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	128		50 - 150								

**Lab Sample ID: MB 570-174385/1-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174385**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/25/21 18:22	08/29/21 12:33	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/25/21 18:22	08/29/21 12:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>n-Octacosane (Surr)</i>	120		50 - 150			08/25/21 18:22	08/29/21 12:33	1

**Lab Sample ID: LCS 570-174385/2-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174385**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	424.6		mg/Kg		106	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	119		50 - 150				

**Lab Sample ID: LCS 570-174385/6-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174385**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	431.3		mg/Kg		108	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	118		50 - 150				

**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**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	437.2		mg/Kg		109	76 - 126	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	120		50 - 150						

# QC Sample Results

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

Job ID: 570-67715-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-174385/7-A**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174385**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Motor Oil (C17-C44)	400	433.3		mg/Kg		108	71 - 139	0	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	120		50 - 150							

**Lab Sample ID: 570-67715-22 MS**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: S-2.5-O2**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174385**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	61		489	579.5		mg/Kg	⊛	106	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	115		50 - 150								

**Lab Sample ID: 570-67715-22 MS**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: S-2.5-O2**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174385**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	87		487	534.0		mg/Kg	⊛	92	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	115		50 - 150								

**Lab Sample ID: 570-67715-22 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: S-2.5-O2**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174385**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	61		497	600.9		mg/Kg	⊛	109	37 - 175	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	121		50 - 150								

**Lab Sample ID: 570-67715-22 MSD**  
**Matrix: Solid**  
**Analysis Batch: 175228**

**Client Sample ID: S-2.5-O2**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174385**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	87		480	543.4		mg/Kg	⊛	95	71 - 174	2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	115		50 - 150								

# QC Association Summary

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

Job ID: 570-67715-1

## 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	

# QC Association Summary

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

Job ID: 570-67715-1

## GC VOA

### Analysis Batch: 175737

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
570-67715-13	S-7.5-N5	Total/NA	Solid	NWTPH-Gx	173703
570-67715-14	S-10-N5	Total/NA	Solid	NWTPH-Gx	173703
570-67715-27	S-16-N3	Total/NA	Solid	NWTPH-Gx	173703

## GC Semi VOA

### Prep Batch: 174384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67715-1	S-2.5-N7	Silica Gel Cleanup	Solid	3550C SGC	
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	

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-67715-1

## 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  
 Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67715-1

## 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-O6	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



# Lab Chronicle

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

Job ID: 570-67715-1

## Client Sample ID: S-2.5-N7

Lab Sample ID: 570-67715-1

Date Collected: 08/17/21 06:45

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		50	5 mL	5 mL	175737	08/31/21 15:13	A9VE	ECL 2
Instrument ID: GC1										
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
Instrument ID: GC48										

## Client Sample ID: S-5-N7

Lab Sample ID: 570-67715-2

Date Collected: 08/17/21 06:50

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175737	08/31/21 17:37	A9VE	ECL 2
Instrument ID: GC1										
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 04:45	A1W	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-7.5-N7

Lab Sample ID: 570-67715-3

Date Collected: 08/17/21 06:55

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	175737	08/31/21 18:01	A9VE	ECL 2
Instrument ID: GC1										
Silica Gel Cleanup	Prep	3550C SGC	DL		10.09 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175333	08/30/21 17:24	UJ3K	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-10-N7

Lab Sample ID: 570-67715-4

Date Collected: 08/17/21 07:00

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-67715-1

## Client Sample ID: S-12.5-N7

Lab Sample ID: 570-67715-5

Date Collected: 08/17/21 07:05

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			175226	08/30/21 05:48	A1W	ECL 1

## Client Sample ID: S-2.5-O6

Lab Sample ID: 570-67715-6

Date Collected: 08/17/21 07:35

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.845 g	5 mL	173704	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC1		250	5 mL	5 mL	175737	08/31/21 16:25	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.34 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		10			175226	08/30/21 10:14	A1W	ECL 1

## Client Sample ID: S-5-O6

Lab Sample ID: 570-67715-7

Date Collected: 08/17/21 07:40

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC1		2500	5 mL	5 mL	175737	08/31/21 18:25	A9VE	ECL 2
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 Instrument ID: GC50		10			175226	08/30/21 10:34	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC1		100	5 mL	5 mL	175737	08/31/21 15:36	A9VE	ECL 2
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 Instrument ID: GC50		1			175226	08/30/21 06:48	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-67715-1

## Client Sample ID: S-10-O6

## Lab Sample ID: 570-67715-9

Date Collected: 08/17/21 07:50

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		2500	5 mL	5 mL	175737	08/31/21 18:49	A9VE	ECL 2
Instrument ID: GC1										
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
Instrument ID: GC50										

## Client Sample ID: S-12.5-O6

## Lab Sample ID: 570-67715-10

Date Collected: 08/17/21 07:55

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	175737	08/31/21 17:13	A9VE	ECL 2
Instrument ID: GC1										
Silica Gel Cleanup	Prep	3550C SGC			10.33 g	10 mL	174384	08/25/21 18:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		50			175333	08/30/21 17:44	UJ3K	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-5-N5

## Lab Sample ID: 570-67715-12

Date Collected: 08/17/21 08:25

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67715-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	175904	08/31/21 23:29	P1R	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	175904	08/31/21 23:53	P1R	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC48										

## Client Sample ID: S-12.5-N5

Lab Sample ID: 570-67715-15

Date Collected: 08/17/21 08:40

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-10-O4

Lab Sample ID: 570-67715-16

Date Collected: 08/17/21 09:15

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67715-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175405	08/30/21 18:56	N1A	ECL 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC25		20	5 mL	5 mL	175849	08/31/21 23:44	P1R	ECL 2
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 Instrument ID: GC48		1			175405	08/30/21 19:17	N1A	ECL 1

## Client Sample ID: S-2.5-N3

Lab Sample ID: 570-67715-19

Date Collected: 08/17/21 09:30

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175405	08/30/21 19:39	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC25		500	5 mL	5 mL	175849	09/01/21 00:42	P1R	ECL 2
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 Instrument ID: GC48		1			175405	08/31/21 15:28	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-67715-1

## Client Sample ID: S-7.5-N3

## Lab Sample ID: 570-67715-21

Date Collected: 08/17/21 09:40

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175228	08/29/21 16:28	N1A	ECL 1

## Client Sample ID: S-2.5-O2

## Lab Sample ID: 570-67715-22

Date Collected: 08/17/21 10:05

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC22		1	5 g	5 mL	175493	08/31/21 19:25	P1R	ECL 2
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 Instrument ID: GC48		1			175228	08/29/21 16:50	N1A	ECL 1

## Client Sample ID: S-5-O2

## Lab Sample ID: 570-67715-23

Date Collected: 08/17/21 10:10

Matrix: Solid

Date Received: 08/18/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC22		1	5 g	5 mL	175493	08/31/21 19:51	P1R	ECL 2
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 Instrument ID: GC48		2			175228	08/29/21 17:11	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC22		1	5 g	5 mL	175493	08/31/21 20:16	P1R	ECL 2
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 Instrument ID: GC48		5			175228	08/29/21 17:33	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-67715-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.195 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	175493	08/31/21 20:42	P1R	ECL 2
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 Instrument ID: GC48		1			175228	08/29/21 17:54	N1A	ECL 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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.283 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		1	5 g	5 mL	175886	09/01/21 10:00	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	174385	08/25/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		1			175228	08/29/21 18:17	N1A	ECL 1

**Client Sample ID: S-16-N3**  
**Date Collected: 08/17/21 09:45**  
**Date Received: 08/18/21 10:15**

**Lab Sample ID: 570-67715-27**  
**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			9.41 g	5 g	173703	08/23/21 16:31	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			175228	08/29/21 18:39	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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67715-1

## 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

Job ID: 570-67715-1

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
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

67715



7440 LINCOLN WAY  
 GARDEN GROVE, CA 92841-1432  
 Calscience TEL: (714) 896-5494 FAX: (714) 894-7601

**Site Name** Everett Bulk Plant  
 Provide MRN for retail or AFE for major projects  
 Retail Project (MRN)  
 Major Project (AFE)  
 Project Name ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
 DATE 8/17/2021  
 PAGE 1 OF 2

ExxonMobil Engr Jennifer Sediachek

LABORATORY CLIENT  
**Cardno**  
 ADDRESS: 309 South Cloverdale Street Unit A13  
 CITY: Seattle, WA 98108  
 TEL: 206-510-5855 FAX: N/A  
 EMAIL: robert.thompson@cardno.com

LAB/USE ONLY  
 COOLER RECEIPT

P O 0314476040 Agreement# A2804415

PROJECT CONTACT:  
**Robert Thompson**  
 SAMPLER(S): Paul Prevou, John Considine

GLOBAL ID # COELT LOG CODE:  
 570-67715 Chain of Custody

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT. RIX	NO. OF CONT.	CONTAINER TYPE
			DATE	TIME			
	1 S-2.5-N7	N7	8/17/2021	0645	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	2 S-5-N7	N7	8/17/2021	0650	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	3 S-7.5-N7	N7	8/17/2021	0655	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	4 S-10-N7	N7	8/17/2021	0700	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	5 S-12.5-N7	N7	8/17/2021	0705	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	6 S-2.5-O6	O6	8/17/2021	0735	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	7 S-5-O6	O6	8/17/2021	0740	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	8 S-10-O6	O6	8/17/2021	0745	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	9 S-12.5-O6	O6	8/17/2021	0750	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	10 S-2.5-N5	N5	8/17/2021	0755	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	11 S-5-N5	N5	8/17/2021	0800	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	12 S-7.5-N5	N5	8/17/2021	0805	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	13 S-10-N5	N5	8/17/2021	0810	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	14 S-12.5-N5	N5	8/17/2021	0815	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	15 S-2.5-O4	O4	8/17/2021	0820	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	16 S-5-O4	O4	8/17/2021	0825	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	17 S-7.5-O4	O4	8/17/2021	0830	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	18 S-10-O4	O4	8/17/2021	0835	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	19 S-12.5-O4	O4	8/17/2021	0840	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	20 DUP	DUP	8/17/2021	0845	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	21 Trip-Blank	Trip-Blank	8/17/2021	0850	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	22 EQBT	EQBT	8/17/2021	0855	S	4	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

**REQUESTED ANALYSIS**

Perform MS/MSD  
 NVT/PH-GX TPH as Gasoline  
 Motor Oil  
 NVT/PH-DX TPH as Diesel and

Requested by (Signature): Paul Prevou  
 Date: 8/17/2021 4:15:00 PM

Received by (Signature): [Signature]  
 Date: 8/18/21 10:15



## 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-7.5-06 (570-67715-8): **07:45**

S-10-06 (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 [robert.thompson@cardno.com](mailto:robert.thompson@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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---

**From:** de Guia, Cecile <Cecile.deGuia@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,

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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: [Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)  
Website: [www.eurofinsUS.com/Calscience](http://www.eurofinsUS.com/Calscience)

Please note our adjusted schedule for Labor Day

---

**From:** Laina Cole <[laina.cole@cardno.com](mailto:laina.cole@cardno.com)>  
**Sent:** Thursday, August 19, 2021 2:49 PM  
**To:** de Guia, Cecile <[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)>; Cam Penner-Ash <[cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)>; Bobby Thompson <[robert.thompson@cardno.com](mailto: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 [laina.cole@cardno.com](mailto:laina.cole@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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, any use, distribution or copying of the information contained in this email and its attachments is strictly prohibited. If you have received this email in error, please email the sender by replying to this message and immediately delete and destroy any copies of this email and any attachments. The views or opinions expressed are the author's own and may not reflect the views or opinions of Cardno.

---

**From:** Cecile de Guia <[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)>  
**Sent:** Thursday, August 19, 2021 2:36 PM  
**To:** Cam Penner-Ash <[cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)>; Laina Cole <[laina.cole@cardno.com](mailto:laina.cole@cardno.com)>; Bobby Thompson <[robert.thompson@cardno.com](mailto: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](mailto:Cecile.deGuia@eurofinset.com)  
[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [570-232901]  
Attachments: 2

> > Bank information has changed, please refer to remittance information on invoice. < <



7440 LINCOLN WAY  
 Calsciencie GARDEN GROVE, CA 92841-1432  
 TEL: (714) 896-5494 FAX: (714) 894-7601

**Site Name**  
 Everett Bulk Plant  
 Provide MRN for retail or AFE for major projects  
 Retail Project (MRN)  
 Major Project (AFE)  
 Project Name  
 ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
 DATE 8/17/2021  
 PAGE 1 OF 2

ExxonMobil Engr  
 Jennifer Sediachek

**LABORATORY CLIENT**  
**Cardno**  
**ADDRESS:**  
 309 South Cloverdale Street Unit A13  
**CITY:**  
 Seattle, WA 98108  
**TEL:** 206-510-5855  
**FAX:** N/A  
 robert.thompson@cardno.com

**TURNDOWN TIME**  
 SAME DAY  24 HR  48 HR  72 HR  10 DAYS

**SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)**  
 RWQCB REPORTING  
 ARCHIVE SAMPLES UNTIL \_\_\_\_\_

**SPECIAL INSTRUCTIONS:**

**GLOBAL ID # COELT LOG CODE:**

**PROJECT CONTACT:**  
**Robert Thompson**  
**SAMPLER(S): Paul Prevou, John Considine**

**LAB USE ONLY:**  
**COOLER RECEIPT**  
 Temp: 40°C

**REQUIRED ANALYSIS**

570-67715 Chain of Custody

P O 0314476040 Agreement# A2804415

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. All units in mg/kg. Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-sch@cardno.com

LAB. USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT. RIX	NO. OF CONT	PERFORM MS/MSD		CONTAINER TYPE
			DATE	TIME			NWTPH-GX TPH as Gasoline	NWTPH-DX TPH as Diesel and Motor Oil	
	1 S-2.5-N7	N7	8/17/2021	0645	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	2 S-5-N7	N7	8/17/2021	0650	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	3 S-7.5-N7	N7	8/17/2021	0655	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	4 S-10-N7	N7	8/17/2021	0700	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	5 S-12.5-N7	N7	8/17/2021	0705	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	6 S-2.5-06	06	8/17/2021	0715	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	7 S-5-06	06	8/17/2021	0740	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	8 S-7.5-06	06	8/17/2021	0745	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	9 S-10-06	06	8/17/2021	0750	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	10 S-12.5-06	06	8/17/2021	0755	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	11 S-2.5-N5	N5	8/17/2021	0805	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	12 S-5-N5	N5	8/17/2021	0810	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	13 S-7.5-N5	N5	8/17/2021	0815	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	14 S-10-N5	N5	8/17/2021	0820	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	15 S-12.5-N5	N5	8/17/2021	0825	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	16 DUP	DUP	8/17/2021	0830	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	17 S-10-04	04	8/17/2021	0915	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	18 S-12.5-04	04	8/17/2021	0920	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	19 Trip Blank EGBT	Trip Blank-EGBT	8/17/2021		S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	20 Trip Blank EGBT	Trip Blank-EGBT	8/17/2021		S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

**Received by (Signature)**  
 Paul Prevou  
**Received by (Signature)**  
 Paul Prevou  
**Received by (Signature)**  
 Paul Prevou

**Date & Time**  
 8/17/2021 4:15:00 PM  
 8/18/21 10:15  
 8/18/21 10:15



0775



7440 LINCOLN WAY  
CALISTOGUE GARDEN GROVE, CA 92841-1432  
TEL: (714) 896-6494 FAX: (714) 894-7601

Site Name

Everett Bulk Plant

Provide MRN for retail or AFE for major projects

Retail Project (MRN)

Major Project (AFE)

Project Name

ExxonMobil ADC / 0314476040

CHAIN OF CUSTODY RECORD

DATE: 8/17/2021

PAGE: 2 OF 2

ExxonMobil Engr Jennifer Sedlachek

LABORATORY CLIENT: **Cardno**  
 ADDRESS: **309 South Cloverdale Street Unit A13**  
 CITY: **Seattle, WA 98108**  
 TEL: **206-510-5855**  
 TURNAROUND TIME:  24 HR  48 HR  72 HR  5 DAYS  10 DAYS  
 SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY):  
 RWQCB REPORTING  ARCHIVE SAMPLES UNTIL \_\_\_\_\_  
 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.thompson@cardno.com  
 All units in mg/kg.  
 Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-stsh@cardno.com

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MATERIAL	NO. OF CONT	Perform MS/MSD	NMT/TPH - TPH as Gasoline	NMT/TPH - TPH as Diesel and Motor Oil	CONTAINER TYPE
			DATE	TIME						
	S-2.5-N3	N3	8/17/2021	0930	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-5-N3	N3	8/17/2021	0935	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-7.5-N3	N3	8/17/2021	0940	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-10-N3	N3	8/17/2021	---	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-12.5-N3	N3	8/17/2021	---	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-2.5-O2	O2	8/17/2021	1005	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-5-O2	O2	8/17/2021	1010	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-7.5-O2	O2	8/17/2021	1015	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-10-O2	O2	8/17/2021	1020	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-12.5-O2	O2	8/17/2021	1025	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-2.5-		8/17/2021	---	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-5-		8/17/2021	---	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-7.5-		8/17/2021	---	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-10-		8/17/2021	---	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-12.5-		8/17/2021	---	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	S-2.5-N3	N3	8/17/2021	0945	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	Trip Blank		8/17/2021	---	S	4	X	X		
	EQB1		8/17/2021	---	S	4	X	X		

REQUESTED ANALYSIS

GLOBAL ID # COBELT LOG CODE: P O 0314476040; Agreement# A2604415

PROJECT CONTACT: Robert Thompson

SAMPLER(S): Robert Paul Prevou, John Considine

Date, & Time: 8/17/2021 4:15:00 PM

Received by (Signature): [Signature]

Received by (Signature): [Signature]

Received by (Signature): [Signature]



67715

Du...

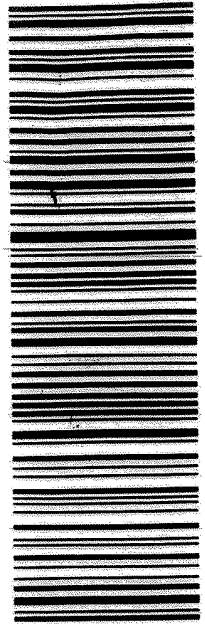
66897286 BBP EXP 02/22

WED - 18 AUG 10:30A  
PRIORITY OVERNIGHT

FedEx  
TRK# 8037 1524 5070  
0200

NSR  
92841  
CA-US SNA

92 APVA



56DLJ/BNFS/FEAR



570-67715 Waybill

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# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67715-1

**Login Number: 67715**  
**List Number: 1**  
**Creator: Ramos, Maribel**

**List Source: Eurofins Calscience LLC**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## 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

*Cecile de Guia*

---

Authorized for release by:  
9/3/2021 5:43:08 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67856-1

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

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# Definitions/Glossary

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

Job ID: 570-67856-1

## 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.
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.
α	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

# 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.

**GC VOA**

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.

**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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67856-1

## Client Sample ID: S-2.5-K4

## 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	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.99		0.21	mg/Kg	1	✳	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	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.67		0.50	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	9.5		6.7	mg/Kg	1	✳	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	D	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 Cleanup
TPH as Motor Oil Range	280		150	mg/Kg	20	✳	NWTPH-Dx	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	1	✳	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	D	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-67856-1

## Client Sample ID: S-12.5-L5

## Lab Sample ID: 570-67856-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	23		20	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-M6

## Lab Sample ID: 570-67856-9

Analyte	Result	Qualifier	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

## Lab Sample ID: 570-67856-10

Analyte	Result	Qualifier	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-M6

## Lab Sample ID: 570-67856-11

Analyte	Result	Qualifier	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-M6

## Lab Sample ID: 570-67856-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	8.5		0.44	mg/Kg	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 Sample ID: 570-67856-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	120		19	mg/Kg	1	☒	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-L7

## Lab Sample ID: 570-67856-14

Analyte	Result	Qualifier	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 - DL	2000		55	mg/Kg	10	☒	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Detection Summary

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

Job ID: 570-67856-1

## Client Sample ID: S-5-L7

## Lab Sample ID: 570-67856-15

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-L7

## Lab Sample ID: 570-67856-16

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	✳	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-L7

## Lab Sample ID: 570-67856-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	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-L7

## Lab Sample ID: 570-67856-18

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-K4

## Lab Sample ID: 570-67856-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	22		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

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67856-1

## 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 - Northwest - Volatile Petroleum Products (GC)

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

### 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	5800		54	mg/Kg	☼	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

## Lab Sample ID: 570-67856-2

Date Collected: 08/18/21 07:10

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)	0.99		0.21	mg/Kg	☼	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

### 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		5.9	mg/Kg	☼	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)	111		50 - 150	08/25/21 18:16	09/02/21 09:34	1

## Client Sample ID: S-10-K4

## Lab Sample ID: 570-67856-3

Date Collected: 08/18/21 07:15

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)	0.67		0.50	mg/Kg	☼	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	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	9.5		6.7	mg/Kg	☼	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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# Client Sample Results

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

Job ID: 570-67856-1

**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

**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	☼	08/24/21 16:26	09/01/21 03:45	500
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	52		50 - 150			08/24/21 16:26	09/01/21 03:45	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 Motor Oil Range	500		5.5	mg/Kg	☼	08/25/21 18:16	09/02/21 11:01	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
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**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	8700		55	mg/Kg	☼	08/25/21 18:16	09/02/21 19:56	10
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
n-Octacosane (Surr)	140		50 - 150			08/25/21 18:16	09/02/21 19:56	10

**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

**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
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
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**

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
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
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 - Northwest - Volatile Petroleum 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
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
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	☼	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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# Client Sample Results

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

Job ID: 570-67856-1

## Client Sample ID: S-7.5-L5

Date Collected: 08/18/21 07:55

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67856-6

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	140		50 - 150	08/25/21 18:16	09/02/21 20:18	1

## Client Sample ID: S-10-L5

Date Collected: 08/18/21 08:00

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67856-7

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - RA**

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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	138		50 - 150	08/25/21 18:16	09/02/21 20:41	1

## 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

**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	☆	08/24/21 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

**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 18:16	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	56		50 - 150	08/25/21 18:16	09/02/21 12:28	1

## Client Sample ID: S-2.5-M6

Date Collected: 08/18/21 08:30

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67856-9

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)	1500		110	mg/Kg	☆	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

# Client Sample Results

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

Job ID: 570-67856-1

## 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-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	10000		110	mg/Kg	☼	08/25/21 18:16	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

## Client Sample ID: S-5-M6

Lab Sample ID: 570-67856-10

Date Collected: 08/18/21 08:35

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)	1200		130	mg/Kg	☼	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

### 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	4400		60	mg/Kg	☼	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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	67		9.1	mg/Kg	☼	08/24/21 16:26	09/01/21 10:27	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		50 - 150			08/24/21 16:26	09/01/21 10:27	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	60		8.2	mg/Kg	☼	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

## Client Sample ID: S-10-M6

Lab Sample ID: 570-67856-12

Date Collected: 08/18/21 08:45

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)	8.5		0.44	mg/Kg	☼	08/24/21 16:26	09/01/21 04:43	1

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# Client Sample Results

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

Job ID: 570-67856-1

## Client Sample ID: S-10-M6

Date Collected: 08/18/21 08:45

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67856-12

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		
<b>Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup</b>								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	690		8.9	mg/Kg	☆	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

## Lab Sample ID: 570-67856-13

Matrix: Solid

<b>Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)</b>								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		1.2	mg/Kg	☆	08/24/21 16:26	09/01/21 08:07	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	64		50 - 150	08/24/21 16:26	09/01/21 08:07	1		
<b>Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup</b>								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	120		19	mg/Kg	☆	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

Date Collected: 08/18/21 09:05

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67856-14

Matrix: Solid

<b>Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)</b>								
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		
<b>Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL</b>								
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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	143		50 - 150	08/25/21 18:16	09/02/21 21:03	10		

# Client Sample Results

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

Job ID: 570-67856-1

**Client Sample ID: S-5-L7**

Date Collected: 08/18/21 09:10

Date Received: 08/20/21 09:30

**Lab Sample ID: 570-67856-15**

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)	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

**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	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	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	45000		760	mg/Kg	☼	08/25/21 18:16	09/03/21 14:15	100
Surrogate	%Recovery	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**

Date Collected: 08/18/21 09:15

Date Received: 08/20/21 09:30

**Lab Sample ID: 570-67856-16**

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)	290		28	mg/Kg	☼	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

**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		99	mg/Kg	☼	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**

Date Collected: 08/18/21 09:20

Date Received: 08/20/21 09:30

**Lab Sample ID: 570-67856-17**

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)	410		110	mg/Kg	☼	08/24/21 16:26	09/01/21 06:59	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51		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	☼	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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# Client Sample Results

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

Job ID: 570-67856-1

## Client Sample ID: S-10-L7

Date Collected: 08/18/21 09:20

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67856-17

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	131		50 - 150	08/25/21 18:18	09/02/21 15:42	2

## Client Sample ID: S-12.5-L7

Date Collected: 08/18/21 09:25

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67856-18

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		2.0	mg/Kg	✧	08/24/21 16:26	09/01/21 08:31	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	70		50 - 150	08/24/21 16:26	09/01/21 08:31	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		28	mg/Kg	✧	08/25/21 18:18	09/02/21 16:04	1
TPH as Motor Oil Range	73		28	mg/Kg	✧	08/25/21 18:18	09/02/21 16:04	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>n</i> -Octacosane (Surr)	66		50 - 150	08/25/21 18:18	09/02/21 16:04	1		

## Client Sample ID: S-15-K4

Date Collected: 08/18/21 07:20

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67856-19

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)	22		0.81	mg/Kg	✧	08/24/21 16:26	09/01/21 08:54	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	90		50 - 150	08/24/21 16:26	09/01/21 08:54	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	65		12	mg/Kg	✧	08/25/21 18:18	09/02/21 16:25	1
TPH as Motor Oil Range	56		12	mg/Kg	✧	08/25/21 18:18	09/02/21 16:25	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>n</i> -Octacosane (Surr)	119		50 - 150	08/25/21 18:18	09/02/21 16:25	1		



# Surrogate Summary

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

Job ID: 570-67856-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (50-150)
570-67856-1	S-2.5-K4	81
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

**Surrogate Legend**

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)

Lab Sample ID	Client Sample ID	OTCSN (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+

# 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)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (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

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 570-67856-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-175894/7**  
**Matrix: Solid**  
**Analysis Batch: 175894**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			09/01/21 02:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150				09/01/21 02:32	1

**Lab Sample ID: MB 570-175894/8**  
**Matrix: Solid**  
**Analysis Batch: 175894**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			09/01/21 02:57	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		50 - 150				09/01/21 02:57	20

**Lab Sample ID: LCS 570-175894/5**  
**Matrix: Solid**  
**Analysis Batch: 175894**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.801		mg/Kg		85	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	78		50 - 150				

**Lab Sample ID: LCSD 570-175894/6**  
**Matrix: Solid**  
**Analysis Batch: 175894**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.10	1.828		mg/Kg		87	77 - 128	2	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	79		50 - 150						

**Lab Sample ID: MB 570-175904/54**  
**Matrix: Solid**  
**Analysis Batch: 175904**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/31/21 22:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150				08/31/21 22:40	1

# QC Sample Results

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

Job ID: 570-67856-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-175904/61**  
**Matrix: Solid**  
**Analysis Batch: 175904**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.028		mg/Kg		96	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	97		50 - 150				

**Lab Sample ID: LCSD 570-175904/62**  
**Matrix: Solid**  
**Analysis Batch: 175904**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.10	2.118		mg/Kg		101	77 - 128	4	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	101		50 - 150						

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-174383/1-A**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174383**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		08/25/21 18:16	09/01/21 19:21	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/25/21 18:16	09/01/21 19:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	106		50 - 150			08/25/21 18:16	09/01/21 19:21	1

**Lab Sample ID: LCS 570-174383/2-A**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174383**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	450.7		mg/Kg		113	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	122		50 - 150				

**Lab Sample ID: LCS 570-174383/6-A**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174383**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	456.2		mg/Kg		114	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	115		50 - 150				

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# QC Sample Results

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

Job ID: 570-67856-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-174383/3-A**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174383**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Diesel (C10-C28)	400	439.8		mg/Kg		110	76 - 126	2	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	114		50 - 150							

**Lab Sample ID: LCSD 570-174383/7-A**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174383**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Motor Oil (C17-C44)	400	443.1		mg/Kg		111	71 - 139	3	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	118		50 - 150							

**Lab Sample ID: 570-67856-9 MS**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: S-2.5-M6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174383**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	11000		451	22070	E 4	mg/Kg	⊛	2545	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	233	S1+	50 - 150								

**Lab Sample ID: 570-67856-9 MS**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: S-2.5-M6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174383**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	4000		456	4685	E 4	mg/Kg	⊛	153	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	119		50 - 150								

**Lab Sample ID: 570-67856-9 MSD**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: S-2.5-M6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174383**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	11000		457	21440	E 4	mg/Kg	⊛	2376	37 - 175	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	225	S1+	50 - 150								

# QC Sample Results

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

Job ID: 570-67856-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-67856-9 MSD**

**Matrix: Solid**

**Analysis Batch: 176144**

**Client Sample ID: S-2.5-M6**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 174383**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	4000		459	5178	E 4	mg/Kg	✱	259	71 - 174	10	20
<b>Surrogate</b>	<b>MSD</b>	<b>MSD</b>									
<i>n</i> -Octacosane (Surr)	117										50 - 150

- 1
- 2
- 3
- 4
- 5
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- 8
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- 13
- 14
- 15

# QC Association Summary

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

Job ID: 570-67856-1

## 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	
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	
LCS 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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67856-1

## 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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67856-1

## 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

# Lab Chronicle

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

Job ID: 570-67856-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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
Instrument ID: GC48										

**Client Sample ID: S-5-K4**  
**Date Collected: 08/18/21 07:10**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67856-2**  
**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			7.029 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 09:18	P1R	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC48										

**Client Sample ID: S-10-K4**  
**Date Collected: 08/18/21 07:15**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67856-3**  
**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			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
Instrument 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
Instrument ID: GC48										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67856-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument ID: GC48										

**Client Sample ID: S-5-L5**  
**Date Collected: 08/18/21 07:50**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67856-5**  
**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			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
Instrument 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
Instrument ID: GC48										

**Client Sample ID: S-7.5-L5**  
**Date Collected: 08/18/21 07:55**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67856-6**  
**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			5.96 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
Instrument 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
Instrument ID: GC48										

**Client Sample ID: S-10-L5**  
**Date Collected: 08/18/21 08:00**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67856-7**  
**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			5.61 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67856-1

## Client Sample ID: S-12.5-L5

## Lab Sample ID: 570-67856-8

Date Collected: 08/18/21 08:05

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			176144	09/02/21 12:28	N1A	ECL 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC1		500	5 mL	5 mL	175894	09/01/21 04:57	A9VE	ECL 2
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 Instrument ID: GC48		20			176144	09/02/21 12:49	N1A	ECL 1

## Client Sample ID: S-5-M6

## Lab Sample ID: 570-67856-10

Date Collected: 08/18/21 08:35

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.994 g	5 mL	174022	08/24/21 16:26	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC1		500	5 mL	5 mL	175894	09/01/21 05:22	A9VE	ECL 2
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 Instrument ID: GC48		10			176144	09/02/21 13:11	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC1		20	5 mL	5 mL	175894	09/01/21 10:27	A9VE	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 Instrument ID: GC48		1			176144	09/02/21 13:32	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-67856-1

## Client Sample ID: S-10-M6

## Lab Sample ID: 570-67856-12

Date Collected: 08/18/21 08:45

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.081 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 04:43	P1R	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC48										

## Client Sample ID: S-12.5-M6

## Lab Sample ID: 570-67856-13

Date Collected: 08/18/21 08:50

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.902 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 08:07	P1R	ECL 2
Instrument ID: GC56										
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	174383	08/25/21 18:16	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 14:15	N1A	ECL 1
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-5-L7

## Lab Sample ID: 570-67856-15

Date Collected: 08/18/21 09:10

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.42 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
Instrument 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67856-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		50	5 mL	5 mL	175894	09/01/21 10:03	A9VE	ECL 2
Instrument ID: GC1										
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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.102 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	Prep	3550C SGC			10.39 g	10 mL	174383	08/25/21 18:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			176144	09/02/21 15:42	N1A	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-12.5-L7

Lab Sample ID: 570-67856-18

Date Collected: 08/18/21 09:25

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	175904	09/01/21 08:31	P1R	ECL 2
Instrument ID: GC56										
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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67856-1

## 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

1

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# Method Summary

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

Job ID: 570-67856-1

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
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





7440 LINCOLN WAY  
Calcsistence GARDEN GROVE, CA 92841-1432  
TEL. (714) 896-6494 . FAX. (714) 894-7601

**Site Name**

Everett Bulk Plant

Provide MRN for retail or AFE for major projects

Retail Project (MRN)

Major Project (AFE)

**Project Name**

ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**

DATE: 8/19/2021

PAGE 1 OF 1

67854

LABORATORY CLIENT:  
**Cardno**  
ADDRESS:  
**309 South Cloverdale Street Unit A13**  
CITY:  
**Seattle, WA 98108**  
TEL: **206-510-5955** FAX: **N/A** Email: **robert.thompson@cardno.com**

TURNAROUND TIME:  24 HR  48 HR  72 HR  10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY):  ARCHIVE SAMPLES UNTIL \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

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.thompson@cardno.com  
All units in mg/kg.  
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner@cardno.com

GLOBAL ID # COBLET LOG CODE: \_\_\_\_\_

PROJECT CONTACT: **Robert Thompson**

SAMPLER(S): **Robert Paul Prevou, John Considine**

LAB USE ONLY: \_\_\_\_\_

COOLER RECEIPT: \_\_\_\_\_

P O 0314476040 Agreement# A2604415

LAB. USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT.	MATERIAL	PERFORM M/MSD	NNTPH-GX TPH as Gasoline	NNTPH-DX TPH as Diesel and Motor Oil	CONTAINER TYPE	REQUESTED ANALYSIS
			DATE	TIME							
1	S-2.5-K4	K4	8/18/2021	0705	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
2	S-5-K4	K4	8/18/2021	0710	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
3	S-7.5-K4	K4	8/18/2021	0715	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
4	S-10-K4	K4	8/18/2021	0715	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
5	S-12.5-K4	K4	8/18/2021	0715	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
6	S-2.5-L5	L5	8/18/2021	0745	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
7	S-5-L5	L5	8/18/2021	0750	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
8	S-7.5-L5	L5	8/18/2021	0755	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
9	S-10-L5	L5	8/18/2021	0800	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
10	S-12.5-L5	L5	8/18/2021	0805	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
11	S-2.5-M6	M6	8/18/2021	0830	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
12	S-5-M6	M6	8/18/2021	0835	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
13	S-7.5-M6	M6	8/18/2021	0840	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
14	S-10-M6	M6	8/18/2021	0845	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
15	S-12.5-M6	M6	8/18/2021	0850	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
16	S-2.5-L7	L7	8/18/2021	0910	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
17	S-5-L7	L7	8/18/2021	0915	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
18	S-7.5-L7	L7	8/18/2021	0920	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
19	S-10-L7	L7	8/18/2021	0925	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
20	S-12.5-L7	L7	8/18/2021	0930	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
21	S-2.5-K4	K4	8/18/2021	0720	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar		
22	TriP Blank	TriP Blank	8/18/2021	0800	4	S					
23	EQB+	EQB+	8/18/2021	0800	4	S					

Date, & Time: 8/19/2021 4 15 00 PM  
Date, & Time: 8/20/21 0930  
Date, & Time: \_\_\_\_\_

Relinquished by (Signature): *[Signature]*  
Relinquished by (Signature): *[Signature]*  
Relinquished by (Signature): *[Signature]*

Received by (Signature): *[Signature]*  
Received by (Signature): *[Signature]*  
Received by (Signature): *[Signature]*

FedEx

Barcode: 570-67856 Chain of Custody

2-7/23 566 XCS

# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67856-1

**Login Number: 67856**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Ramos, Maribel**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## 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

*Cecile de Guia*

---

Authorized for release by:  
9/3/2021 6:41:05 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67857-1

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
570-67857-19	S-2-L9	Solid	08/18/21 10:35	08/20/21 09:30

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# Definitions/Glossary

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

Job ID: 570-67857-1

## 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.
α	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

# Case Narrative

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

Job ID: 570-67857-1

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## Job ID: 570-67857-1

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### 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.

#### GC VOA

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.

#### VOA Prep

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

# Detection Summary

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

Job ID: 570-67857-1

## Client Sample ID: S-2.5-K6

## Lab Sample ID: 570-67857-1

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

## Lab Sample ID: 570-67857-2

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 Cleanup
TPH as Diesel Range - DL	14000		380	mg/Kg	50	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-K6

## Lab Sample ID: 570-67857-3

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	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-K6

## Lab Sample ID: 570-67857-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	120		14	mg/Kg	50	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	38		6.4	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	33		6.4	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-K6

## Lab Sample ID: 570-67857-5

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 Cleanup

## Client Sample ID: S-2.5-K8

## Lab Sample ID: 570-67857-6

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 Cleanup

## Client Sample ID: S-5-K8

## Lab Sample ID: 570-67857-7

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 Cleanup
TPH as Motor Oil Range	2300		140	mg/Kg	20	✘	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Detection Summary

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

Job ID: 570-67857-1

## Client Sample ID: S-7.5-K8

## Lab Sample ID: 570-67857-8

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-K8

## 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: 570-67857-10

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: 570-67857-11

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 Cleanup
TPH as Motor Oil Range	280		5.2	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-L9

## Lab Sample ID: 570-67857-12

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 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: 570-67857-13

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 Cleanup

## Client Sample ID: S-2.5-M8

## Lab Sample ID: 570-67857-14

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

# Detection Summary

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

Job ID: 570-67857-1

## Client Sample ID: S-5-M8

## Lab Sample ID: 570-67857-15

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 Cleanup
TPH as Motor Oil Range	14		5.6	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-M8

## Lab Sample ID: 570-67857-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	490		190	mg/Kg	250	✳	NWTPH-Gx	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	D	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 Cleanup
TPH as Motor Oil Range	2100		55	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67857-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1200		120	mg/Kg	☼	08/23/21 13:47	09/01/21 16:25	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131		50 - 150	08/23/21 13:47	09/01/21 16:25	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	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
n-Octacosane (Surr)	53		50 - 150	08/25/21 18:24	09/01/21 22:37	2

## Client Sample ID: S-5-K6

Date Collected: 08/18/21 09:45

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67857-2

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)	560		190	mg/Kg	☼	08/23/21 13:47	09/01/21 15:57	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150	08/23/21 13:47	09/01/21 15:57	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 Motor Oil Range	920		38	mg/Kg	☼	08/25/21 18:24	09/01/21 22:59	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	129		50 - 150	08/25/21 18:24	09/01/21 22:59	5

### 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	14000		380	mg/Kg	☼	08/25/21 18:24	09/02/21 16:47	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	53		50 - 150	08/25/21 18:24	09/02/21 16:47	50

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

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

### 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		5.7	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-67857-1

## 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
<i>n</i> -Octacosane (Surr)	118		50 - 150	08/25/21 18:24	09/01/21 23:21	1

## Client Sample ID: S-10-K6

Date Collected: 08/18/21 09:55

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67857-4

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)	120		14	mg/Kg	☆	08/23/21 13:47	09/01/21 15:00	50
Surrogate	%Recovery	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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	38		6.4	mg/Kg	☆	08/25/21 18:24	09/01/21 23:42	1
TPH as Motor Oil Range	33		6.4	mg/Kg	☆	08/25/21 18:24	09/01/21 23:42	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>n</i> -Octacosane (Surr)	111		50 - 150	08/25/21 18:24	09/01/21 23:42	1		

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.24	mg/Kg	☆	08/23/21 13:47	09/01/21 09:12	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	81		50 - 150	08/23/21 13:47	09/01/21 09:12	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	ND		6.0	mg/Kg	☆	08/25/21 18:24	09/02/21 00:04	1
TPH as Motor Oil Range	6.2		6.0	mg/Kg	☆	08/25/21 18:24	09/02/21 00:04	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>n</i> -Octacosane (Surr)	116		50 - 150	08/25/21 18:24	09/02/21 00:04	1		

## Client Sample ID: S-2.5-K8

Date Collected: 08/18/21 10:05

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67857-6

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)	4.5		0.21	mg/Kg	☆	08/23/21 13:47	09/01/21 11:06	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	124		50 - 150	08/23/21 13:47	09/01/21 11:06	1		

# Client Sample Results

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

Job ID: 570-67857-1

## 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-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	2800		28	mg/Kg	☼	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	☼	08/23/21 13:47	09/01/21 21:14	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			08/23/21 13:47	09/01/21 21:14	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	19000		140	mg/Kg	☼	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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	123		50 - 150			08/25/21 18:24	09/02/21 19:34	20

## Client Sample ID: S-7.5-K8

Lab Sample ID: 570-67857-8

Date Collected: 08/18/21 10:15

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)	3400		270	mg/Kg	☼	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: 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	59000		230	mg/Kg	☼	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)	151	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

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)	1500		140	mg/Kg	☼	08/23/21 13:47	09/01/21 20:23	500

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# Client Sample Results

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

Job ID: 570-67857-1

## Client Sample ID: S-10-K8

Lab Sample ID: 570-67857-9

Date Collected: 08/18/21 12:00

Matrix: Solid

Date Received: 08/20/21 09:30

Surrogate	%Recovery	Qualifier	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	D	Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	270		6.5	mg/Kg	☆	08/25/21 18:24	09/02/21 01:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150	08/25/21 18:24	09/02/21 01:32	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	4900		33	mg/Kg	☆	08/25/21 18:24	09/02/21 18:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	142		50 - 150	08/25/21 18:24	09/02/21 18:07	5

## 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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	10		1.8	mg/Kg	☆	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	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	44		26	mg/Kg	☆	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
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111		50 - 150	08/25/21 18:24	09/02/21 01:54	1

## 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 - Northwest - Volatile Petroleum Products (GC)

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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	370		5.2	mg/Kg	☆	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
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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

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# Client Sample Results

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

Job ID: 570-67857-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1400		78	mg/Kg	☼	08/23/21 13:47	09/01/21 22:07	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150	08/23/21 13:47	09/01/21 22:07	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	310		6.3	mg/Kg	☼	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

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		2.0	mg/Kg	☼	08/23/21 13:47	09/01/21 10:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150	08/23/21 13:47	09/01/21 10:09	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		29	mg/Kg	☼	08/25/21 18:24	09/02/21 03:44	1
TPH as Motor Oil Range	33		29	mg/Kg	☼	08/25/21 18:24	09/02/21 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		50 - 150	08/25/21 18:24	09/02/21 03:44	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum 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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139		50 - 150	08/23/21 13:47	09/01/21 23:24	1000

### 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	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

# Client Sample Results

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

Job ID: 570-67857-1

## 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

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		48	mg/Kg	☼	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	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	250		5.6	mg/Kg	☼	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	Qualifier	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

Date Collected: 08/18/21 11:05

Date Received: 08/20/21 09:30

## Lab Sample ID: 570-67857-16

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
4-Bromofluorobenzene (Surr)	80		50 - 150	08/23/21 13:47	09/01/21 21:16	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	☼	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
n-Octacosane (Surr)	112		50 - 150	08/25/21 18:24	09/02/21 04:49	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	740		47	mg/Kg	☼	08/23/21 13:47	09/01/21 21:39	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150	08/23/21 13:47	09/01/21 21:39	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	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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67857-1

## 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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	6.0		2.2	mg/Kg	☼	08/23/21 13:47	09/01/21 10:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		50 - 150	08/23/21 13:47	09/01/21 10:38	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		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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111		50 - 150	08/25/21 18:24	09/02/21 05:34	1

## Client Sample ID: S-2-L9

Lab Sample ID: 570-67857-19

Date Collected: 08/18/21 10:35

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)	96		58	mg/Kg	☼	08/23/21 13:47	09/01/21 22:03	250

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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150	08/25/21 18:24	09/03/21 12:47	10

# Surrogate Summary

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

Job ID: 570-67857-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB1 (50-150)
570-67857-1	S-2.5-K6	131
570-67857-2	S-5-K6	101
570-67857-3	S-7.5-K6	176 S1+
570-67857-4	S-10-K6	157 S1+
570-67857-5	S-12.5-K6	81
570-67857-6	S-2.5-K8	124
570-67857-7	S-5-K8	69
570-67857-8	S-7.5-K8	132
570-67857-9	S-10-K8	64
570-67857-10	S-12.5-K8	101
570-67857-11	S-5-L9	286 S1+
570-67857-12	S-10-L9	71
570-67857-13	S-12.5-L9	68
570-67857-14	S-2.5-M8	139
570-67857-15	S-5-M8	106
570-67857-16	S-7.5-M8	80
570-67857-17	S-10-M8	85
570-67857-18	S-12.5-M8	101
570-67857-19	S-2-L9	75
LCS 570-175849/14	Lab Control Sample	106
LCS 570-175972/3	Lab Control Sample	110
LCS 570-176056/6	Lab Control Sample	87
LCSD 570-175849/15	Lab Control Sample Dup	108
LCSD 570-175972/4	Lab Control Sample Dup	123
LCSD 570-176056/7	Lab Control Sample Dup	89
MB 570-175849/4	Method Blank	78
MB 570-175849/5	Method Blank	79
MB 570-175972/6	Method Blank	75
MB 570-176056/9	Method Blank	64

**Surrogate Legend**

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)		
Lab Sample ID	Client Sample ID	OTCSN (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

# 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)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (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

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 570-67857-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-175849/4**  
**Matrix: Solid**  
**Analysis Batch: 175849**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			08/31/21 20:44	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150				08/31/21 20:44	1

**Lab Sample ID: MB 570-175849/5**  
**Matrix: Solid**  
**Analysis Batch: 175849**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			08/31/21 21:19	20
Surrogate	MB %Recovery	MB 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**  
**Matrix: Solid**  
**Analysis Batch: 175849**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.015		mg/Kg		95	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	106		50 - 150				

**Lab Sample ID: LCSD 570-175849/15**  
**Matrix: Solid**  
**Analysis Batch: 175849**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.11	2.026		mg/Kg		96	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		50 - 150						

**Lab Sample ID: MB 570-175972/6**  
**Matrix: Solid**  
**Analysis Batch: 175972**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			09/01/21 12:18	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150				09/01/21 12:18	20

# QC Sample Results

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

Job ID: 570-67857-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-175972/3**  
**Matrix: Solid**  
**Analysis Batch: 175972**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.051		mg/Kg		97	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	110		50 - 150				

**Lab Sample ID: LCSD 570-175972/4**  
**Matrix: Solid**  
**Analysis Batch: 175972**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.944		mg/Kg		92	77 - 128	5	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	123		50 - 150						

**Lab Sample ID: MB 570-176056/9**  
**Matrix: Solid**  
**Analysis Batch: 176056**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			09/01/21 16:04	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	64		50 - 150				09/01/21 16:04	20

**Lab Sample ID: LCS 570-176056/6**  
**Matrix: Solid**  
**Analysis Batch: 176056**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.089		mg/Kg		99	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	87		50 - 150				

**Lab Sample ID: LCSD 570-176056/7**  
**Matrix: Solid**  
**Analysis Batch: 176056**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.138		mg/Kg		101	77 - 128	2	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	89		50 - 150						

# QC Sample Results

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

Job ID: 570-67857-1

## 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**

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
TPH as Diesel Range	ND		5.0	mg/Kg		08/25/21 18:24	09/01/21 19:00	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		08/25/21 18:24	09/01/21 19:00	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
<i>n-Octacosane (Surr)</i>	110		50 - 150			08/25/21 18:24	09/01/21 19:00	1

**Lab Sample ID: LCS 570-174386/2-A**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174386**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
<i>n-Octacosane (Surr)</i>	116		50 - 150				

**Lab Sample ID: LCS 570-174386/6-A**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174386**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
<i>n-Octacosane (Surr)</i>	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**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
TPH as Diesel (C10-C28)	400	455.9		mg/Kg		114	76 - 126	3	20
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	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**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
TPH as Motor Oil (C17-C44)	400	440.6		mg/Kg		110	71 - 139	1	20
Surrogate	LCSD LCSD		Limits						
	%Recovery	Qualifier							
<i>n-Octacosane (Surr)</i>	112		50 - 150						

# QC Sample Results

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

Job ID: 570-67857-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-67857-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: S-2.5-K6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174386**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
TPH as Diesel (C10-C28)	3200		479	9041	E 4	mg/Kg	⊛	1225		37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	119		50 - 150							

**Lab Sample ID: 570-67857-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: S-2.5-K6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174386**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
TPH as Motor Oil (C17-C44)	1600		469	2163	E	mg/Kg	⊛	114		71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	40	S1-	50 - 150							

**Lab Sample ID: 570-67857-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: S-2.5-K6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174386**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
TPH as Diesel (C10-C28)	3200		468	9763	E 4	mg/Kg	⊛	1409		37 - 175	8	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>									
<i>n-Octacosane (Surr)</i>	121		50 - 150									

**Lab Sample ID: 570-67857-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 176144**

**Client Sample ID: S-2.5-K6**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 174386**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
TPH as Motor Oil (C17-C44)	1600		469	2112	E	mg/Kg	⊛	103		71 - 174	2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>									
<i>n-Octacosane (Surr)</i>	47	S1-	50 - 150									

# QC Association Summary

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

Job ID: 570-67857-1

## 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	
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	



# QC Association Summary

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

Job ID: 570-67857-1

## 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

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# QC Association Summary

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

Job ID: 570-67857-1

## 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

# Lab Chronicle

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

Job ID: 570-67857-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	175849	09/01/21 16:25	P1R	ECL 2
Instrument ID: GC25										
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
Instrument ID: GC48										

**Client Sample ID: S-5-K6**  
**Date Collected: 08/18/21 09:45**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67857-2**  
**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			5.134 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175849	09/01/21 15:57	P1R	ECL 2
Instrument ID: GC25										
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		5			176144	09/01/21 22:59	N1A	ECL 1
Instrument ID: GC48										
Silica Gel Cleanup	Prep	3550C SGC	DL		10.14 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
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**  
**Date Collected: 08/18/21 09:50**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67857-3**  
**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			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
Instrument 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
Instrument ID: GC48										

**Client Sample ID: S-10-K6**  
**Date Collected: 08/18/21 09:55**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67857-4**  
**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			5.855 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67857-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			176144	09/02/21 00:04	N1A	ECL 1

**Client Sample ID: S-2.5-K8**  
**Date Collected: 08/18/21 10:05**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67857-6**  
**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			6.924 g	5 g	173650	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC25		1	5 g	5 mL	175849	09/01/21 11:06	P1R	ECL 2
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 Instrument ID: GC48		5			176144	09/02/21 00:26	N1A	ECL 1

**Client Sample ID: S-5-K8**  
**Date Collected: 08/18/21 10:10**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67857-7**  
**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			5.722 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		500	5 mL	5 mL	176056	09/01/21 21:14	A9VE	ECL 2
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 Instrument ID: GC48		20			176144	09/02/21 19:34	N1A	ECL 1

**Client Sample ID: S-7.5-K8**  
**Date Collected: 08/18/21 10:15**  
**Date Received: 08/20/21 09:30**

**Lab Sample ID: 570-67857-8**  
**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			5.2 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC22		500	5 mL	5 mL	176056	09/01/21 20:48	A9VE	ECL 2
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 Instrument ID: GC48	DL	20			176144	09/02/21 17:45	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-67857-1

## Client Sample ID: S-10-K8

## Lab Sample ID: 570-67857-9

Date Collected: 08/18/21 12:00

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	176056	09/01/21 20:23	A9VE	ECL 2
Instrument ID: GC22										
Silica Gel Cleanup	Prep	3550C SGC			10.29 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 01:32	N1A	ECL 1
Instrument ID: GC48										
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	NWTPH-Dx	DL	5			176144	09/02/21 18:07	N1A	ECL 1
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	175849	09/01/21 09:40	P1R	ECL 2
Instrument ID: GC25										
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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.93 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-10-L9

## Lab Sample ID: 570-67857-12

Date Collected: 08/18/21 10:45

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.154 g	5 mL	173648	08/23/21 13:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	176056	09/01/21 22:07	A9VE	ECL 2
Instrument ID: GC22										
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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67857-1

## Client Sample ID: S-12.5-L9

## Lab Sample ID: 570-67857-13

Date Collected: 08/18/21 10:50

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	175849	09/01/21 10:09	P1R	ECL 2
Instrument ID: GC25										
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
Instrument ID: GC48										

## Client Sample ID: S-2.5-M8

## Lab Sample ID: 570-67857-14

Date Collected: 08/18/21 10:55

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-5-M8

## Lab Sample ID: 570-67857-15

Date Collected: 08/18/21 11:00

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-7.5-M8

## Lab Sample ID: 570-67857-16

Date Collected: 08/18/21 11:05

Matrix: Solid

Date Received: 08/20/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-67857-1

**Client Sample ID: S-10-M8**

**Lab Sample ID: 570-67857-17**

**Date Collected: 08/18/21 11:10**

**Matrix: Solid**

**Date Received: 08/20/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.518 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 21:39	P1R	ECL 2
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		1			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**

**Matrix: Solid**

**Date Received: 08/20/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	175849	09/01/21 10:38	P1R	ECL 2
Instrument ID: GC25										
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			176144	09/02/21 05:34	N1A	ECL 1
Instrument ID: GC48										

**Client Sample ID: S-2-L9**

**Lab Sample ID: 570-67857-19**

**Date Collected: 08/18/21 10:35**

**Matrix: Solid**

**Date Received: 08/20/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.916 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 22:03	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.04 g	10 mL	174386	08/25/21 18:24	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			176550	09/03/21 12:47	N1A	ECL 1
Instrument 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  
Project/Site: ExxonMobil ADC / 0314476040

Job ID: 570-67857-1

## 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

1

2

3

4

5

6

7

8

9

10

11

12

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15



# Method Summary

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

Job ID: 570-67857-1

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
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

UNST



7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
Calsciense (714) 896-6494 . FAX. (714) 894-7501

**Site Name** Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE: 8/19/2021  
PAGE \_\_\_\_\_ OF \_\_\_\_\_

ExxonMobil Engr Jennifer Sedlacthek

LABORATORY CLIENT  
**Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855 FAX: N/A  
TURNAROUND TIME: robert.thompson@cardno.com

LABORATORY CLIENT GLOBAL ID # COELET LOG CODE: P O 0314476040 Agreement# A2604415

PROJECT CONTACT: Robert Thompson  
SAMPLER(S): Paul Prevou, John Consideine

LAB USE ONLY:  COOLER RECEIPT  T-500P

**REQUESTED ANALYSIS**

Perform MS/MSD NWTPH-GX - TPH as Gasoline NWTPH-DX - TPH as Diesel and Motor Oil

Barcode: 570-67857 Chain of Custody

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	MAT. RUX	CONTAINER TYPE
			DATE	TIME			
1	S-2.5-K6	K6	8/18/2021	0910	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
2	S-5-K6	K6	8/18/2021	0915	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
3	S-7.5-K6	K6	8/18/2021	0950	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
4	S-10-K6	K6	8/18/2021	0955	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
5	S-12.5-K6	K6	8/18/2021	1000	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
6	S-2.5-K8	K8	8/18/2021	1005	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
7	S-5-K8	K8	8/18/2021	1010	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
8	S-7.5-K8	K8	8/18/2021	1015	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
9	S-10-K8	K8	8/18/2021	1020	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
10	S-12.5-K8	K8	8/18/2021	1025	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
11	S-2.5-L9	L9	8/18/2021	1030	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
12	S-5-L9	L9	8/18/2021	1035	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
13	S-7.5-L9	L9	8/18/2021	1040	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
14	S-10-L9	L9	8/18/2021	1045	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
15	S-12.5-L9	L9	8/18/2021	1050	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
16	S-2.5-M8	M8	8/18/2021	1055	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
17	S-5-M8	M8	8/18/2021	1100	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
18	S-7.5-M8	M8	8/18/2021	1105	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
19	S-10-M8	M8	8/18/2021	1110	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
20	S-12.5-M8	M8	8/18/2021	1115	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
21	S-2-L9	L9	8/18/2021	1035	4	S	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
22	Trip Blank	Trip Blank					
23	EQB1	EQB1					

Relinquished by (Signature) Paul Prevou  
Relinquished by (Signature) Paul Prevou  
Relinquished by (Signature) Paul Prevou

Received by (Signature) Paul Prevou  
Received by (Signature) Paul Prevou  
Received by (Signature) Paul Prevou

Date & Time: 8/19/2021 4:15:00 PM  
Date & Time: 8/20/21 09:30  
Date & Time: 8/20/21 09:30

2-9/2-5 506 #C0



# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67857-1

**Login Number: 67857**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Ramos, Maribel**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## 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

*Cecile de Guia*

---

Authorized for release by:  
10/27/2021 9:35:47 AM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil/ADC/0314476040

Job ID: 570-72680-1

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  
Project/Site: ExxonMobil/ADC/0314476040

Job ID: 570-72680-1

## Qualifiers

### 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.
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

# Case Narrative

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

Job ID: 570-72680-1

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## Job ID: 570-72680-1

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### 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.

#### GC VOA

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188470. 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.



# Detection Summary

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

Job ID: 570-72680-1

## Client Sample ID: S-5-C3

## Lab Sample ID: 570-72680-1

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: 570-72680-2

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: 570-72680-3

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-C3

## Lab Sample ID: 570-72680-4

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: 570-72680-5

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: 570-72680-6

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: 570-72680-7

No Detections.

## Client Sample ID: S-2.5-E3

## Lab Sample ID: 570-72680-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
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
TPH as Motor Oil Range	220		10	mg/Kg	2	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-72680-1

## Client Sample ID: S-5-E3

## Lab Sample ID: 570-72680-9

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

## Lab Sample ID: 570-72680-10

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: 570-72680-11

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-E5

## Lab Sample ID: 570-72680-12

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: 570-72680-13

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 Cleanup
TPH as Motor Oil Range	1700		220	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-E5

## Lab Sample ID: 570-72680-14

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: 570-72680-15

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-E6A

## Lab Sample ID: 570-72680-16

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-72680-1

## 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.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-72680-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2.1		0.22	mg/Kg	☼	10/21/21 13:27	10/22/21 06:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150	10/21/21 13:27	10/22/21 06:49	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	290		33	mg/Kg	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150	10/21/21 20:44	10/22/21 01:40	5

## Client Sample ID: S-7.5-C3

Date Collected: 10/12/21 09:25

Date Received: 10/13/21 10:15

## Lab Sample ID: 570-72680-2

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)	120		75	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
n-Octacosane (Surr)	74		50 - 150	10/21/21 20:44	10/22/21 02:00	1

## Client Sample ID: S-10-C3

Date Collected: 10/12/21 09:30

Date Received: 10/13/21 10:15

## Lab Sample ID: 570-72680-3

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		0.30	mg/Kg	☼	10/26/21 12:26	10/26/21 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		50 - 150	10/26/21 12:26	10/26/21 18:29	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	☼	10/21/21 20:44	10/22/21 02:20	1
TPH as Motor 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-Octacosane (Surr)	96		50 - 150	10/21/21 20:44	10/22/21 02:20	1

# Client Sample Results

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

Job ID: 570-72680-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.96		0.27	mg/Kg	☼	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

### 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		6.6	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150	10/21/21 20:44	10/22/21 02:41	1

## Client Sample ID: S-5-D2

Lab Sample ID: 570-72680-5

Date Collected: 10/12/21 09:55

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)	200		21	mg/Kg	☼	10/21/21 13:27	10/23/21 15:33	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150	10/21/21 13:27	10/23/21 15:33	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	5200		56	mg/Kg	☼	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

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	540		94	mg/Kg	☼	10/21/21 13:27	10/23/21 16:44	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150	10/21/21 13:27	10/23/21 16:44	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	4600		60	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150	10/21/21 20:44	10/22/21 03:20	10

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-72680-1

## 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 - 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	☼	10/21/21 13:27	10/22/21 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150	10/21/21 13:27	10/22/21 13:55	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		6.3	mg/Kg	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150	10/21/21 20:44	10/22/21 03:41	1

## Client Sample ID: S-2.5-E3

Date Collected: 10/12/21 10:10

Date Received: 10/13/21 10:15

## Lab Sample ID: 570-72680-8

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)	0.37		0.25	mg/Kg	☼	10/21/21 13:27	10/22/21 09:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		50 - 150	10/21/21 13:27	10/22/21 09:58	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	110		10	mg/Kg	☼	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
n-Octacosane (Surr)	75		50 - 150	10/21/21 20:44	10/26/21 12:16	2

## 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

### 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	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150	10/21/21 13:27	10/23/21 15:10	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	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	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150	10/21/21 20:44	10/22/21 04:22	20

# Client Sample Results

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

Job ID: 570-72680-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.21	mg/Kg	☼	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

### 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	☼	10/21/21 20:44	10/22/21 04:41	1
TPH as Motor Oil Range	9.0		5.6	mg/Kg	☼	10/21/21 20:44	10/22/21 04:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			10/21/21 20:44	10/22/21 04:41	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

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)	650		51	mg/Kg	☼	10/21/21 13:27	10/23/21 16:21	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150			10/21/21 13:27	10/23/21 16:21	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	89000		630	mg/Kg	☼	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

Date Received: 10/13/21 10:15

## Lab Sample ID: 570-72680-12

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)	770		120	mg/Kg	☼	10/21/21 13:27	10/23/21 17:08	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150			10/21/21 13:27	10/23/21 17:08	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	36000		240	mg/Kg	☼	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	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94		50 - 150			10/21/21 20:44	10/22/21 11:27	5

# Client Sample Results

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

Job ID: 570-72680-1

## 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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	740		190	mg/Kg	☼	10/21/21 13:27	10/23/21 17:31	500

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	☼	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	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150	10/21/21 20:44	10/22/21 11:47	5

## 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	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	140		19	mg/Kg	☼	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	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	27000		160	mg/Kg	☼	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)	101		50 - 150	10/21/21 20:44	10/22/21 12:07	10

## Client Sample ID: S-15-E5

Date Collected: 10/12/21 11:20

Date Received: 10/13/21 10:15

## Lab Sample ID: 570-72680-15

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)	0.27		0.22	mg/Kg	☼	10/21/21 13:27	10/25/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		50 - 150	10/21/21 13:27	10/25/21 19:12	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	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)	95		50 - 150	10/21/21 20:44	10/22/21 07:07	1



# Client Sample Results

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

Job ID: 570-72680-1

## Client Sample ID: S-15-E6A

Lab Sample ID: 570-72680-16

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	☼	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

Date Collected: 10/12/21 11:30

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		0.97	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	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		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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			10/21/21 20:44	10/22/21 07:46	1

## Client Sample ID: S-15-E8A

Lab Sample ID: 570-72680-18

Date Collected: 10/12/21 13:10

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)	1.4		0.22	mg/Kg	☼	10/21/21 13:27	10/22/21 17:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150			10/21/21 13:27	10/22/21 17:15	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		6.1	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 Results

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

Job ID: 570-72680-1

## Client Sample ID: S-17.5-E8A

Lab Sample ID: 570-72680-19

Date Collected: 10/12/21 13:15

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)	23		4.9	mg/Kg	☼	10/21/21 13:27	10/25/21 22:02	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150	10/21/21 13:27	10/25/21 22:02	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	72		6.0	mg/Kg	☼	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
n-Octacosane (Surr)	95		50 - 150	10/21/21 20:44	10/22/21 08:28	1

## Client Sample ID: S-20-E8A

Lab Sample ID: 570-72680-20

Date Collected: 10/12/21 13:20

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		2.3	mg/Kg	☼	10/21/21 13:27	10/25/21 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150	10/21/21 13:27	10/25/21 20:01	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		56	mg/Kg	☼	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

Date Collected: 10/12/21 00:00

Matrix: Water

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		100	ug/L			10/19/21 21:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56		50 - 150		10/19/21 21:49	1

## Client Sample ID: S-20-E8A DUP

Lab Sample ID: 570-72680-22

Date Collected: 10/12/21 13:25

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		1.9	mg/Kg	☼	10/21/21 13:27	10/22/21 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 150	10/21/21 13:27	10/22/21 18:26	1

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# Client Sample Results

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

Job ID: 570-72680-1

## Client Sample ID: S-20-E8A DUP

Lab Sample ID: 570-72680-22

Date Collected: 10/12/21 13:25

Matrix: Solid

Date Received: 10/13/21 10:15

### 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		530	mg/Kg	☼	10/21/21 21:31	10/22/21 22:23	10
<b>TPH as Motor Oil Range</b>	<b>570</b>		530	mg/Kg	☼	10/21/21 21:31	10/22/21 22:23	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -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)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>TPH as Gasoline (C4-C13)</b>	<b>2200</b>		370	mg/Kg	☼	10/21/21 13:27	10/23/21 18:19	1000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>4</i> -Bromofluorobenzene (Surr)	73		50 - 150			10/21/21 13:27	10/23/21 18:19	1000

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>TPH as Diesel Range</b>	<b>12000</b>		130	mg/Kg	☼	10/21/21 21:31	10/22/21 22:43	5
<b>TPH as Motor Oil Range</b>	<b>3000</b>		130	mg/Kg	☼	10/21/21 21:31	10/22/21 22:43	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	106		50 - 150			10/21/21 21:31	10/22/21 22:43	5

## Client Sample ID: S-17.5-G8A

Lab Sample ID: 570-72680-24

Date Collected: 10/12/21 14:20

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
<b>TPH as Gasoline (C4-C13)</b>	<b>2900</b>		1100	mg/Kg	☼	10/21/21 13:27	10/25/21 21:38	1000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>4</i> -Bromofluorobenzene (Surr)	94		50 - 150			10/21/21 13:27	10/25/21 21:38	1000

### Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>TPH as Diesel Range</b>	<b>29000</b>		700	mg/Kg	☼	10/21/21 21:31	10/22/21 23:04	20
<b>TPH as Motor Oil Range</b>	<b>7100</b>		700	mg/Kg	☼	10/21/21 21:31	10/22/21 23:04	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -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

Date Collected: 10/12/21 14:25

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		1.6	mg/Kg	☼	10/21/21 13:27	10/25/21 20:25	1

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# Client Sample Results

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

Job ID: 570-72680-1

**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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		50 - 150	10/21/21 13:27	10/25/21 20:25	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	ND		110	mg/Kg	☆	10/21/21 21:31	10/26/21 13:02	2
<b>TPH as Motor Oil Range</b>	<b>730</b>		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

# Surrogate Summary

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

Job ID: 570-72680-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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
570-72680-18	S-15-E8A	71
570-72680-19	S-17.5-E8A	90
570-72680-20	S-20-E8A	80
570-72680-22	S-20-E8A DUP	54
570-72680-23	S-15-G8A	73
570-72680-24	S-17.5-G8A	94
570-72680-25	S-20-G8A	76
LCS 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
LCSD 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
LCSD 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

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

# Surrogate Summary

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

Job ID: 570-72680-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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-Bromofluorobenzene (Surr)

## 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)
570-72680-1	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  
Project/Site: ExxonMobil/ADC/0314476040

Job ID: 570-72680-1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (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

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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

Job ID: 570-72680-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-187662/5**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ug/L			10/19/21 18:52	1
Surrogate	MB %Recovery	MB 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**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2130	2099		ug/L		99	76 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	91		50 - 150				

**Lab Sample ID: LCSD 570-187662/4**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2130	2111		ug/L		99	76 - 128	1	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	87		50 - 150						

**Lab Sample ID: 570-72969-D-3 MS**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	ND		2130	2070		ug/L		97	69 - 132
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		50 - 150						

**Lab Sample ID: 570-72969-D-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2130	2120		ug/L		100	69 - 132	2	15
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		50 - 150								



# QC Sample Results

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

Job ID: 570-72680-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-188305/33**  
**Matrix: Solid**  
**Analysis Batch: 188305**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/22/21 00:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 150				10/22/21 00:32	1

**Lab Sample ID: LCS 570-188305/31**  
**Matrix: Solid**  
**Analysis Batch: 188305**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	1.773		mg/Kg		83	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	93		50 - 150				

**Lab Sample ID: LCSD 570-188305/32**  
**Matrix: Solid**  
**Analysis Batch: 188305**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.754		mg/Kg		82	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		50 - 150						

**Lab Sample ID: MB 570-188470/6**  
**Matrix: Solid**  
**Analysis Batch: 188470**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/22/21 12:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150				10/22/21 12:19	1

**Lab Sample ID: LCS 570-188470/4**  
**Matrix: Solid**  
**Analysis Batch: 188470**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.305		mg/Kg		109	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		50 - 150				

# QC Sample Results

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

Job ID: 570-72680-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-188470/5**  
**Matrix: Solid**  
**Analysis Batch: 188470**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.265		mg/Kg		107	77 - 128	2	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	111		50 - 150						

**Lab Sample ID: MB 570-188568/5**  
**Matrix: Solid**  
**Analysis Batch: 188568**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/22/21 14:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	82		50 - 150				10/22/21 14:32	1

**Lab Sample ID: LCS 570-188568/3**  
**Matrix: Solid**  
**Analysis Batch: 188568**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.861		mg/Kg		87	77 - 128		
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	73		50 - 150						

**Lab Sample ID: LCSD 570-188568/4**  
**Matrix: Solid**  
**Analysis Batch: 188568**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.898		mg/Kg		89	77 - 128	2	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	86		50 - 150						

**Lab Sample ID: MB 570-188860/6**  
**Matrix: Solid**  
**Analysis Batch: 188860**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/23/21 14:17	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	69		50 - 150				10/23/21 14:17	20

# QC Sample Results

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

Job ID: 570-72680-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-188860/3**  
**Matrix: Solid**  
**Analysis Batch: 188860**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.932		mg/Kg		91	77 - 128
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		86					50 - 150

**Lab Sample ID: LCSD 570-188860/4**  
**Matrix: Solid**  
**Analysis Batch: 188860**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.856		mg/Kg		87	77 - 128	4	16
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		108					50 - 150		

**Lab Sample ID: MB 570-189079/5**  
**Matrix: Solid**  
**Analysis Batch: 189079**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/25/21 14:30	1
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	95		50 - 150				10/25/21 14:30	1

**Lab Sample ID: MB 570-189079/6**  
**Matrix: Solid**  
**Analysis Batch: 189079**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/25/21 14:54	20
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	94		50 - 150				10/25/21 14:54	20

**Lab Sample ID: LCS 570-189079/3**  
**Matrix: Solid**  
**Analysis Batch: 189079**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.184		mg/Kg		102	77 - 128
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		120					50 - 150

# QC Sample Results

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

Job ID: 570-72680-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-189079/4**  
**Matrix: Solid**  
**Analysis Batch: 189079**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.216		mg/Kg		104	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	123		50 - 150						

**Lab Sample ID: MB 570-189399/3-A**  
**Matrix: Solid**  
**Analysis Batch: 189364**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 189399**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg		10/26/21 12:26	10/26/21 14:13	1	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>			
4-Bromofluorobenzene (Surr)	92		50 - 150	10/26/21 12:26	10/26/21 14:13	1			

**Lab Sample ID: LCS 570-189399/1-A**  
**Matrix: Solid**  
**Analysis Batch: 189364**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 189399**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.301		mg/Kg		108	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	122		50 - 150				

**Lab Sample ID: LCSD 570-189399/2-A**  
**Matrix: Solid**  
**Analysis Batch: 189364**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 189399**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.234		mg/Kg		105	77 - 128	3	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	122		50 - 150						

**Lab Sample ID: 570-72680-3 MS**  
**Matrix: Solid**  
**Analysis Batch: 189364**

**Client Sample ID: S-10-C3**  
**Prep Type: Total/NA**  
**Prep Batch: 189399**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	ND		2.50	2.069		mg/Kg	☼	77	48 - 114
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	123		50 - 150						

# QC Sample Results

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

Job ID: 570-72680-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-72680-3 MSD**  
**Matrix: Solid**  
**Analysis Batch: 189364**

**Client Sample ID: S-10-C3**  
**Prep Type: Total/NA**  
**Prep Batch: 189399**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2.50	2.079		mg/Kg	☼	77	48 - 114	0	23
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
4-Bromofluorobenzene (Surr)	128		50 - 150								

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-188370/1-A**  
**Matrix: Solid**  
**Analysis Batch: 188373**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188370**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	ND		5.0	mg/Kg		10/21/21 20:44	10/21/21 22:40	1	
TPH as Motor Oil Range	ND		5.0	mg/Kg		10/21/21 20:44	10/21/21 22:40	1	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>			
n-Octacosane (Surr)	92		50 - 150	10/21/21 20:44	10/21/21 22:40	1			

**Lab Sample ID: LCS 570-188370/2-A**  
**Matrix: Solid**  
**Analysis Batch: 188373**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188370**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	370.3		mg/Kg		93	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>LCS Limits</b>				
n-Octacosane (Surr)	94		50 - 150				

**Lab Sample ID: LCS 570-188370/6-A**  
**Matrix: Solid**  
**Analysis Batch: 188373**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188370**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	404.9		mg/Kg		101	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>LCS Limits</b>				
n-Octacosane (Surr)	92		50 - 150				

**Lab Sample ID: LCSD 570-188370/3-A**  
**Matrix: Solid**  
**Analysis Batch: 188373**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188370**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	363.6		mg/Kg		91	76 - 126	2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>LCSD Limits</b>						
n-Octacosane (Surr)	97		50 - 150						

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# QC Sample Results

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

Job ID: 570-72680-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-188370/7-A**  
**Matrix: Solid**  
**Analysis Batch: 188373**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188370**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Motor Oil (C17-C44)	400	420.3		mg/Kg		105	71 - 139	4	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	97		50 - 150							

**Lab Sample ID: 570-72680-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 188373**

**Client Sample ID: S-5-C3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188370**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	360		479	636.3		mg/Kg	⊛	58	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	89		50 - 150								

**Lab Sample ID: 570-72680-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 188373**

**Client Sample ID: S-5-C3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188370**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	550		514	1188		mg/Kg	⊛	124	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	94		50 - 150								

**Lab Sample ID: 570-72680-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 188373**

**Client Sample ID: S-5-C3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188370**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	360		525	774.2		mg/Kg	⊛	79	37 - 175	20	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	98		50 - 150								

**Lab Sample ID: 570-72680-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 188373**

**Client Sample ID: S-5-C3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188370**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	550		531	1124		mg/Kg	⊛	108	71 - 174	6	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	99		50 - 150								

# QC Sample Results

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

Job ID: 570-72680-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-188375/1-A**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		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
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150			10/21/21 21:31	10/22/21 19:17	1

**Lab Sample ID: LCS 570-188375/2-A**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	426.9		mg/Kg		107	76 - 126
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	102		50 - 150				

**Lab Sample ID: LCS 570-188375/6-A**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	408.0		mg/Kg		102	71 - 139
Surrogate	LCS %Recovery	LCS Qualifier	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**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	413.1		mg/Kg		103	76 - 126	3	20
Surrogate	LCSD %Recovery	LCSD 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**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	420.1		mg/Kg		105	71 - 139	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	103		50 - 150						

# QC Sample Results

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

Job ID: 570-72680-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-72859-A-22-A MS**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: Matrix Spike**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
TPH as Diesel (C10-C28)	5500		458	5600	4	mg/Kg	⊛	20	37 - 175	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS</b>	<b>MS</b>							
<i>n-Octacosane (Surr)</i>	106					50 - 150				

**Lab Sample ID: 570-72859-A-22-B MSD**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
TPH as Diesel (C10-C28)	5500		443	5648	4	mg/Kg	⊛	31	37 - 175		1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>								
<i>n-Octacosane (Surr)</i>	114					50 - 150					

**Lab Sample ID: 570-72859-A-22-C MS**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: Matrix Spike**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier	Added	Result	Qualifier				Limits	
TPH as Motor Oil (C17-C44)	4400		439	4358	4	mg/Kg	⊛	-3	71 - 174	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS</b>	<b>MS</b>							
<i>n-Octacosane (Surr)</i>	104					50 - 150				

**Lab Sample ID: 570-72859-A-22-D MSD**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	4400		463	5253	4	mg/Kg	⊛	190	71 - 174		19
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>								
<i>n-Octacosane (Surr)</i>	114					50 - 150					



# QC Association Summary

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

Job ID: 570-72680-1

## 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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-1	S-5-C3	Total/NA	Solid	NWTPH-Gx	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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# QC Association Summary

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

Job ID: 570-72680-1

## 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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-3	S-10-C3	Total/NA	Solid	NWTPH-Gx	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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72680-3	S-10-C3	Total/NA	Solid	5035	
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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# QC Association Summary

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

Job ID: 570-72680-1

## 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 Batch
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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# QC Association Summary

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

Job ID: 570-72680-1

## 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

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-72680-1

## 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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# Lab Chronicle

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

Job ID: 570-72680-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		5			188373	10/22/21 01:40	N1A	ECL 1

**Client Sample ID: S-7.5-C3**  
**Date Collected: 10/12/21 09:25**  
**Date Received: 10/13/21 10:15**

**Lab Sample ID: 570-72680-2**  
**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			4.352 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		100	5 mL	5 mL	188860	10/23/21 15:57	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			7.43 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		1			188373	10/22/21 02:00	N1A	ECL 1

**Client Sample ID: S-10-C3**  
**Date Collected: 10/12/21 09:30**  
**Date Received: 10/13/21 10:15**

**Lab Sample ID: 570-72680-3**  
**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			5.01 g	5 mL	189399	10/26/21 12:26	A9VE	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC1		1	5 g	5 mL	189364	10/26/21 18:29	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.93 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		1			188373	10/22/21 02:20	N1A	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		1	5 g	5 mL	188305	10/22/21 08:24	A9VE	ECL 2
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 Instrument ID: GC50		1			188373	10/22/21 02:41	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-72680-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		100	5 mL	5 mL	188860	10/23/21 15:33	P1R	ECL 2
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 Instrument ID: GC50		10			188373	10/22/21 03:01	N1A	ECL 1

**Client Sample ID: S-7.5-D2**  
**Date Collected: 10/12/21 10:00**  
**Date Received: 10/13/21 10:15**

**Lab Sample ID: 570-72680-6**  
**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			4.013 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		250	5 mL	5 mL	188860	10/23/21 16:44	P1R	ECL 2
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 Instrument ID: GC50		10			188373	10/22/21 03:20	N1A	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			188373	10/22/21 03:41	N1A	ECL 1

**Client Sample ID: S-2.5-E3**  
**Date Collected: 10/12/21 10:10**  
**Date Received: 10/13/21 10:15**

**Lab Sample ID: 570-72680-8**  
**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			5.27 g	5 g	188235	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		1	5 g	5 mL	188305	10/22/21 09:58	A9VE	ECL 2
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 Instrument ID: GC50		2			189336	10/26/21 12:16	N5Y3	ECL 1

# Lab Chronicle

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

Job ID: 570-72680-1

## Client Sample ID: S-5-E3

## Lab Sample ID: 570-72680-9

Date Collected: 10/12/21 10:15

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		20			188373	10/22/21 04:22	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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	NWTPH-Dx Instrument ID: GC50		1			188373	10/22/21 04:41	N1A	ECL 1

## Client Sample ID: S-5-E5

## Lab Sample ID: 570-72680-11

Date Collected: 10/12/21 11:00

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		200	5 mL	5 mL	188860	10/23/21 16:21	P1R	ECL 2
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 Instrument ID: GC50		100			188373	10/22/21 05:02	N1A	ECL 1

## Client Sample ID: S-7.5-E5

## Lab Sample ID: 570-72680-12

Date Collected: 10/12/21 11:05

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.406 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		250	5 mL	5 mL	188860	10/23/21 17:08	P1R	ECL 2
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 Instrument ID: GC50		5			188373	10/22/21 11:27	N1A	ECL 1



# Lab Chronicle

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

Job ID: 570-72680-1

## Client Sample ID: S-10-E5

Lab Sample ID: 570-72680-13

Date Collected: 10/12/21 11:10

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	188860	10/23/21 17:31	P1R	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC50										

## Client Sample ID: S-12.5-E5

Lab Sample ID: 570-72680-14

Date Collected: 10/12/21 11:15

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		20	5 mL	5 mL	189079	10/25/21 20:49	P1R	ECL 2
Instrument ID: GC1										
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
Instrument ID: GC50										

## Client Sample ID: S-15-E5

Lab Sample ID: 570-72680-15

Date Collected: 10/12/21 11:20

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-15-E6A

Lab Sample ID: 570-72680-16

Date Collected: 10/12/21 11:25

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-72680-1

## Client Sample ID: S-15-C8A

Lab Sample ID: 570-72680-17

Date Collected: 10/12/21 11:30

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			188373	10/22/21 07:46	N1A	ECL 1

## Client Sample ID: S-15-E8A

Lab Sample ID: 570-72680-18

Date Collected: 10/12/21 13:10

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			188373	10/22/21 08:07	N1A	ECL 1

## Client Sample ID: S-17.5-E8A

Lab Sample ID: 570-72680-19

Date Collected: 10/12/21 13:15

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.435 g	5 mL	188236	10/21/21 13:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC1		20	5 mL	5 mL	189079	10/25/21 22:02	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.55 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		1			188373	10/22/21 08:28	N1A	ECL 1

## Client Sample ID: S-20-E8A

Lab Sample ID: 570-72680-20

Date Collected: 10/12/21 13:20

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC1		1	5 g	5 mL	189079	10/25/21 20:01	P1R	ECL 2
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 Instrument ID: GC50		1			188373	10/22/21 08:48	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-72680-1

## Client Sample ID: Trip Blank

Lab Sample ID: 570-72680-21

Date Collected: 10/12/21 00:00

Matrix: Water

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/19/21 21:49	P1R	ECL 2
Instrument ID: GC25										

## Client Sample ID: S-20-E8A DUP

Lab Sample ID: 570-72680-22

Date Collected: 10/12/21 13:25

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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		1	5 g	5 mL	188568	10/22/21 18:26	A9VE	ECL 2
Instrument ID: 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.089 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

Matrix: Solid

Date Received: 10/13/21 10:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-72680-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.722 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 20:25	P1R	ECL 2
Instrument ID: GC1										
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



# Accreditation/Certification Summary

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

Job ID: 570-72680-1

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-18	10-12-22

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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

72680



7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
Calscience TEL: (714) 896-6494 . FAX: (714) 894-7501

**Site Name**  
Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name**  
ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE: 10/12/2021  
PAGE 1 OF 2

**ExxonMobil Engr**  
Jennifer Sedischeck

LABORATORY CLIENT: **Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855 FAX: N/A  
TURNAROUND TIME:  SAME DAY  24 HR  48 HR  72 HR  10 DAYS  
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY):  
 RWQCB REPORTING  ARCHIVE SAMPLES UNTIL / /  
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.thompson@cardno.com  
All units in mg/kg.  
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com

GLOBAL ID # COELET LOG CODE:  
PROJECT CONTACT: **Robert Thompson**  
SAMPLER(S): **Paul Prevou, Cameron Penner-Ash, John Considine**  
P O 0314476040 Agreement# A2604415  
LAB USE ONLY  
COOLER RECEIPT  
Temp: # °C

**REQUESTED ANALYSIS**

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	Perfom MS/MSD	NWTFPH-GX TPH as Gasoline	NWTFPH-DX - TPH as Diesel and Motor Oil	CONTAINER TYPE
			DATE	TIME					
	1	S-5-C3	10/12/2021	0920	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	2	S-7.5-C3	10/12/2021	0925	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	3	S-10-C3	10/12/2021	0930	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	4	S-12.5-C3	10/12/2021	0935	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	5	S-5-D2	10/12/2021	0955	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	6	S-7.5-D2	10/12/2021	1000	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	7	S-10-D2	10/12/2021	1005	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	8	S-12.5-E3	10/12/2021	1010	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	9	S-5-E3	10/12/2021	1015	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	10	S-7.5-E3	10/12/2021	1020	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	11	S-5-E5	10/12/2021	1100	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	12	S-7.5-E5	10/12/2021	1105	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	13	S-10-E5	10/12/2021	1110	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	14	S-12.5-E5	10/12/2021	1115	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	15	S-5-E5	10/12/2021	1120	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	16	S-5-E6A	10/12/2021	1125	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	17	S-5-E6A	10/12/2021	1130	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	18	S-5-E6A	10/12/2021	1310	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	19	S-17.5-E6A	10/12/2021	1315	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	20	S-20-E6A	10/12/2021	1320	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
	21	Trip Blank	10/12/2021		2	X		2 VOAs	
		EB1	40-12021						

Relinquished by (Signature): **Paul Prevou**  
Relinquished by (Signature): **Paul Prevou**  
Relinquished by (Signature): **Paul Prevou**  
Date & Time: 10/12/2021 4 15 00 PM  
Date & Time: 10/13/21 10:15  
Date & Time: 1-4/2-3 5:00







# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-72680-1

**Login Number: 72680**  
**List Number: 1**  
**Creator: Patel, Jayesh**

**List Source: Eurofins Calscience LLC**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## 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

*Cecile de Guia*

---

Authorized for release by:  
11/18/2021 5:46:51 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-72859-1

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-I5	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
570-72859-28	S-10-H2	Solid	10/13/21 14:00	10/14/21 10:00

# Definitions/Glossary

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

Job ID: 570-72859-1

## 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.
α	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

# Case Narrative

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

Job ID: 570-72859-1

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## Job ID: 570-72859-1

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### 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.

#### 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 3.2° 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 570-187023. 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.

# Detection Summary

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

Job ID: 570-72859-1

## 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	1	✘	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	1	✘	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	Method	Prep Type
TPH as Gasoline (C4-C13)	430		57	mg/Kg	250	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	8300		56	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	2200		56	mg/Kg	10	✘	NWTPH-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	D	Method	Prep Type
TPH as Gasoline (C4-C13)	11		0.51	mg/Kg	1	✘	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	✘	NWTPH-Gx	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-72859-1

## Client Sample ID: S-5-I7

## Lab Sample ID: 570-72859-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	5.0		0.32	mg/Kg	1	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	53		5.4	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	23		5.4	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-I7

## Lab Sample ID: 570-72859-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	280		110	mg/Kg	500	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	730		10	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	160		10	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-12.5-I7

## Lab Sample ID: 570-72859-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	99		6.7	mg/Kg	20	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	130		7.4	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	68		7.4	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-15-I7

## Lab Sample ID: 570-72859-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	100		38	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-I5

## Lab Sample ID: 570-72859-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	330		11	mg/Kg	50	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	7400		58	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1600		58	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-I5

## Lab Sample ID: 570-72859-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	98		17	mg/Kg	50	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	1900		60	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	370		60	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-I5

## Lab Sample ID: 570-72859-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	980		120	mg/Kg	500	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	4500		56	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	970		56	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Detection Summary

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

Job ID: 570-72859-1

## 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)	870		350	mg/Kg	1000	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	7800		120	mg/Kg	5	✳	NWTPH-Dx	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)	3.1		0.58	mg/Kg	1	✳	NWTPH-Gx	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

## Client Sample ID: S-12.5-I5-DUP

## Lab Sample ID: 570-72859-17

Analyte	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
TPH as Diesel Range	34		14	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	55		14	mg/Kg	1	✳	NWTPH-Dx	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	2100		28	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	320		28	mg/Kg	5	✳	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

## Lab Sample ID: 570-72859-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	3.1		0.25	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	660		110	mg/Kg	20	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	670		110	mg/Kg	20	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: Trip Blank

## Lab Sample ID: 570-72859-21

No Detections.

## Client Sample ID: S-5-I3

## Lab Sample ID: 570-72859-22

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

# Detection Summary

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

Job ID: 570-72859-1

## Client Sample ID: S-5-I3 (Continued)

## Lab Sample ID: 570-72859-22

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

## Client Sample ID: S-7.5-I3

## Lab Sample ID: 570-72859-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.30		0.21	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	110		5.9	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	63		5.9	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-I3

## Lab Sample ID: 570-72859-24

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

## Client Sample ID: S-5-H2

## Lab Sample ID: 570-72859-26

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

## Client Sample ID: S-10-H2

## Lab Sample ID: 570-72859-28

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.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-72859-1

## Client Sample ID: S-15-I8A

## Lab Sample ID: 570-72859-1

Date Collected: 10/13/21 11:00

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)	ND		1.9	mg/Kg	☼	10/15/21 13:00	10/16/21 16:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59		50 - 150	10/15/21 13:00	10/16/21 16:26	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		34	mg/Kg	☼	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	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	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94		50 - 150	10/22/21 12:40	10/22/21 18:28	5

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	7.7		0.22	mg/Kg	☼	10/15/21 13:00	10/16/21 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61		50 - 150	10/15/21 13:00	10/16/21 18:00	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	3900		58	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150	10/22/21 12:40	10/22/21 18:47	10

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-72859-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	430		57	mg/Kg	☼	10/15/21 13:00	10/19/21 01:07	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		50 - 150	10/15/21 13:00	10/19/21 01:07	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	☼	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

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)	810		84	mg/Kg	☼	10/15/21 13:00	10/19/21 01:30	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		50 - 150	10/15/21 13:00	10/19/21 01:30	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	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

Date Collected: 10/13/21 11:35

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)	11		0.51	mg/Kg	☼	10/15/21 13:00	10/19/21 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	47	S1-	50 - 150	10/15/21 13:00	10/19/21 18:18	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	110		15	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-72859-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	380		24	mg/Kg	☼	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

### 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	4400		63	mg/Kg	☼	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	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

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-8

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)	5.0		0.32	mg/Kg	☼	10/15/21 13:00	10/18/21 13:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150			10/15/21 13:00	10/18/21 13:23	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	53		5.4	mg/Kg	☼	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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150			10/22/21 12:40	10/22/21 20:26	1

## Client Sample ID: S-10-I7

Date Collected: 10/13/21 11:50

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-9

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)	280		110	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (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

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# Client Sample Results

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

Job ID: 570-72859-1

## Client Sample ID: S-12.5-I7

Date Collected: 10/13/21 11:55

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-10

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)	99		6.7	mg/Kg	☼	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

### 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		7.4	mg/Kg	☼	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

Date Collected: 10/13/21 12:00

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-11

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		1.3	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		38	mg/Kg	☼	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

## Client Sample ID: S-2.5-I5

Date Collected: 10/13/21 12:05

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-12

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)	330		11	mg/Kg	☼	10/15/21 13:00	10/18/21 20:25	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150	10/15/21 13:00	10/18/21 20:25	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	7400		58	mg/Kg	☼	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

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-72859-1

**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

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	98		17	mg/Kg	☼	10/15/21 13:00	10/26/21 00:23	50
Surrogate	%Recovery	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	☼	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**  
Date Collected: 10/13/21 12:15  
Date Received: 10/14/21 10:00

**Lab Sample ID: 570-72859-14**  
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)	980		120	mg/Kg	☼	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**

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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	98		50 - 150			10/22/21 12:40	10/22/21 23:05	10

**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

**Method: NWTPH-Gx - Northwest - Volatile Petroleum 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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150			10/15/21 13:00	10/19/21 02:40	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	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)	95		50 - 150			10/22/21 12:40	10/22/21 23:25	5

# Client Sample Results

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

Job ID: 570-72859-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3.1		0.58	mg/Kg	☼	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

### 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		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	1

## Client Sample ID: S-12.5-I5-DUP

Lab Sample ID: 570-72859-17

Date Collected: 10/13/21 12:30

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)	1.3		0.40	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	34		14	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		50 - 150	10/22/21 12:40	10/23/21 00:05	1

## Client Sample ID: S-5-H4

Lab Sample ID: 570-72859-18

Date Collected: 10/13/21 13:15

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)	110		5.4	mg/Kg	☼	10/15/21 13:00	10/18/21 16:35	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150	10/15/21 13:00	10/18/21 16:35	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	2100		28	mg/Kg	☼	10/22/21 12:40	10/23/21 00:25	5
TPH as Motor Oil Range	320		28	mg/Kg	☼	10/22/21 12:40	10/23/21 00:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150	10/22/21 12:40	10/23/21 00:25	5

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# Client Sample Results

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

Job ID: 570-72859-1

## Client Sample ID: S-7.5-H4

Lab Sample ID: 570-72859-19

Date Collected: 10/13/21 13:20

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)	0.64		0.23	mg/Kg	☼	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

### 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		5.6	mg/Kg	☼	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

## Client Sample ID: S-2.5-I3

Lab Sample ID: 570-72859-20

Date Collected: 10/13/21 13:25

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)	3.1		0.25	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	660		110	mg/Kg	☼	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

## 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

### 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			10/19/21 23:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150				10/19/21 23:01	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	220		12	mg/Kg	☼	10/15/21 13:00	10/18/21 20:48	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			10/15/21 13:00	10/18/21 20:48	50

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# Client Sample Results

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

Job ID: 570-72859-1

## Client Sample ID: S-5-I3

Date Collected: 10/13/21 13:30

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-22

Matrix: Solid

### 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	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
<i>n</i> -Octacosane (Surr)	129		50 - 150			10/21/21 21:31	10/22/21 23:45	10

## Client Sample ID: S-7.5-I3

Date Collected: 10/13/21 13:35

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-23

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)	0.30		0.21	mg/Kg	☼	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

### 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		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	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	106		50 - 150			10/21/21 21:31	10/23/21 00:06	1

## Client Sample ID: S-10-I3

Date Collected: 10/13/21 13:40

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-24

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		0.20	mg/Kg	☼	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

### 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		5.8	mg/Kg	☼	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
<i>n</i> -Octacosane (Surr)	107		50 - 150			10/21/21 21:31	10/23/21 00:27	1

## Client Sample ID: S-2.5-H2

Date Collected: 10/13/21 13:45

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-25

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)	76		12	mg/Kg	☼	10/15/21 13:00	10/18/21 21:12	50

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# Client Sample Results

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

Job ID: 570-72859-1

## Client Sample ID: S-2.5-H2

Date Collected: 10/13/21 13:45

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-25

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150	10/15/21 13:00	10/18/21 21:12	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	2200		58	mg/Kg	☆	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

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-26

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	1700		28	mg/Kg	☆	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	104		50 - 150	10/21/21 21:31	10/23/21 01:08	5

## Client Sample ID: S-7.5-H2

Date Collected: 10/13/21 13:55

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-27

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)	870		250	mg/Kg	☆	10/15/21 13:00	10/19/21 03:04	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150	10/15/21 13:00	10/19/21 03:04	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	6200		29	mg/Kg	☆	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

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# Client Sample Results

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

Job ID: 570-72859-1

**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 - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.57	mg/Kg	☼	10/15/21 13:02	10/18/21 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150	10/15/21 13:02	10/18/21 14:11	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		79	mg/Kg	☼	10/21/21 21:31	10/23/21 01:50	5
<b>TPH as Motor Oil Range</b>	<b>170</b>		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

# Surrogate Summary

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

Job ID: 570-72859-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (50-150)
570-72859-1	S-15-I8A	59
570-72859-2	S-2.5-H6	57
570-72859-3	S-5-H6	61
570-72859-4	S-7.5-H6	89
570-72859-5	S-10-H6	88
570-72859-6	S-12.5-H6	47 S1-
570-72859-7	S-3.5-I7	72
570-72859-8	S-5-I7	83
570-72859-9	S-10-I7	88
570-72859-10	S-12.5-I7	128
570-72859-11	S-15-I7	97
570-72859-12	S-2.5-I5	91
570-72859-13	S-5-I5	93
570-72859-14	S-7.5-I5	91
570-72859-15	S-10-I5	80
570-72859-16	S-12.5-I5	90
570-72859-17	S-12.5-I5-DUP	91
570-72859-18	S-5-H4	73
570-72859-19	S-7.5-H4	120
570-72859-20	S-2.5-I3	84
570-72859-22	S-5-I3	69
570-72859-23	S-7.5-I3	106
570-72859-24	S-10-I3	108
570-72859-25	S-2.5-H2	72
570-72859-26	S-5-H2	74
570-72859-27	S-7.5-H2	78
570-72859-28	S-10-H2	97
LCS 570-187023/3	Lab Control Sample	91
LCS 570-187196/3	Lab Control Sample	109
LCS 570-187202/3	Lab Control Sample	92
LCS 570-187353/31	Lab Control Sample	89
LCS 570-187511/6	Lab Control Sample	100
LCS 570-189079/3	Lab Control Sample	120
LCSD 570-187023/4	Lab Control Sample Dup	98
LCSD 570-187196/4	Lab Control Sample Dup	111
LCSD 570-187202/4	Lab Control Sample Dup	97
LCSD 570-187353/32	Lab Control Sample Dup	87
LCSD 570-187511/7	Lab Control Sample Dup	104
LCSD 570-189079/4	Lab Control Sample Dup	123
MB 570-187023/5	Method Blank	72
MB 570-187196/5	Method Blank	103
MB 570-187196/6	Method Blank	96
MB 570-187202/6	Method Blank	76
MB 570-187353/34	Method Blank	80
MB 570-187511/10	Method Blank	82
MB 570-189079/6	Method Blank	94

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

# Surrogate Summary

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

Job ID: 570-72859-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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-Bromofluorobenzene (Surr)

## 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)
570-72859-1	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-I7	69
570-72859-8 MSD	S-5-I7	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

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# Surrogate Summary

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

Job ID: 570-72859-1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (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

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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**  
**Matrix: Solid**  
**Analysis Batch: 187023**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/16/21 12:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150				10/16/21 12:40	1

**Lab Sample ID: LCS 570-187023/3**  
**Matrix: Solid**  
**Analysis Batch: 187023**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.136		mg/Kg		100	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	91		50 - 150				

**Lab Sample ID: LCSD 570-187023/4**  
**Matrix: Solid**  
**Analysis Batch: 187023**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.151		mg/Kg		101	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		50 - 150						

**Lab Sample ID: MB 570-187196/5**  
**Matrix: Solid**  
**Analysis Batch: 187196**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/18/21 12:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		50 - 150				10/18/21 12:07	1

**Lab Sample ID: MB 570-187196/6**  
**Matrix: Solid**  
**Analysis Batch: 187196**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/18/21 12:31	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		50 - 150				10/18/21 12:31	20



# QC Sample Results

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

Job ID: 570-72859-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-187196/3**  
**Matrix: Solid**  
**Analysis Batch: 187196**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.268		mg/Kg		107	77 - 128
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		109					50 - 150

**Lab Sample ID: LCSD 570-187196/4**  
**Matrix: Solid**  
**Analysis Batch: 187196**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.348		mg/Kg		111	77 - 128	3	16
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		111					50 - 150		

**Lab Sample ID: MB 570-187202/6**  
**Matrix: Solid**  
**Analysis Batch: 187202**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/18/21 13:05	20
<b>Surrogate</b>		<b>MB %Recovery</b>	<b>MB Qualifier</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		76					10/18/21 13:05	20

**Lab Sample ID: LCS 570-187202/3**  
**Matrix: Solid**  
**Analysis Batch: 187202**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.862		mg/Kg		88	77 - 128
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
4-Bromofluorobenzene (Surr)		92					50 - 150

**Lab Sample ID: LCSD 570-187202/4**  
**Matrix: Solid**  
**Analysis Batch: 187202**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.829		mg/Kg		86	77 - 128	2	16
<b>Surrogate</b>		<b>LCSD %Recovery</b>	<b>LCSD Qualifier</b>				<b>Limits</b>		
4-Bromofluorobenzene (Surr)		97					50 - 150		

# QC Sample Results

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

Job ID: 570-72859-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-187353/34**  
**Matrix: Solid**  
**Analysis Batch: 187353**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/19/21 00:43	20	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150					10/19/21 00:43	20

**Lab Sample ID: LCS 570-187353/31**  
**Matrix: Solid**  
**Analysis Batch: 187353**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	1.697		mg/Kg		80	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	89		50 - 150				

**Lab Sample ID: LCSD 570-187353/32**  
**Matrix: Solid**  
**Analysis Batch: 187353**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.819		mg/Kg		85	77 - 128	7	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	87		50 - 150						

**Lab Sample ID: MB 570-187511/10**  
**Matrix: Solid**  
**Analysis Batch: 187511**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/19/21 14:40	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150					10/19/21 14:40	1

**Lab Sample ID: LCS 570-187511/6**  
**Matrix: Solid**  
**Analysis Batch: 187511**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.103		mg/Kg		99	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		50 - 150				

# QC Sample Results

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

Job ID: 570-72859-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-187511/7**  
**Matrix: Solid**  
**Analysis Batch: 187511**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.140		mg/Kg		101	77 - 128	2	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	104		50 - 150						

**Lab Sample ID: MB 570-187662/5**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ug/L			10/19/21 18:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	56		50 - 150			10/19/21 18:52	1	

**Lab Sample ID: LCS 570-187662/3**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2130	2099		ug/L		99	76 - 128		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	91		50 - 150						

**Lab Sample ID: LCSD 570-187662/4**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2130	2111		ug/L		99	76 - 128	1	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	87		50 - 150						

**Lab Sample ID: 570-72969-D-3 MS**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2130	2070		ug/L		97	69 - 132		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	89		50 - 150								

# QC Sample Results

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

Job ID: 570-72859-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-72969-D-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2130	2120		ug/L		100	69 - 132	2	15
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	91		50 - 150								

**Lab Sample ID: MB 570-189079/6**  
**Matrix: Solid**  
**Analysis Batch: 189079**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/25/21 14:54	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	94		50 - 150				10/25/21 14:54	20

**Lab Sample ID: LCS 570-189079/3**  
**Matrix: Solid**  
**Analysis Batch: 189079**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.184		mg/Kg		102	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	120		50 - 150				

**Lab Sample ID: LCSD 570-189079/4**  
**Matrix: Solid**  
**Analysis Batch: 189079**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.216		mg/Kg		104	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	123		50 - 150						

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-188375/1-A**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		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
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	103		50 - 150			10/21/21 21:31	10/22/21 19:17	1

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# QC Sample Results

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**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	426.9		mg/Kg		107	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	102		50 - 150				

**Lab Sample ID: LCS 570-188375/6-A**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	408.0		mg/Kg		102	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	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**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	413.1		mg/Kg		103	76 - 126	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	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**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	420.1		mg/Kg		105	71 - 139	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	103		50 - 150						

**Lab Sample ID: 570-72859-22 MS**  
**Matrix: Solid**  
**Analysis Batch: 188558**

**Client Sample ID: S-5-13**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188375**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	5500		458	5600	4	mg/Kg	☼	20	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	106		50 - 150						

# QC Sample Results

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: 570-72859-22 MS**

**Matrix: Solid**

**Analysis Batch: 188558**

**Client Sample ID: S-5-13**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 188375**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
TPH as Motor Oil (C17-C44)	4400		439	4358	4	mg/Kg	⊛	-3		71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS</b>	<b>MS</b>	<b>Qualifier</b>	<b>Limits</b>					
<i>n-Octacosane (Surr)</i>	104									50 - 150

**Lab Sample ID: 570-72859-22 MSD**

**Matrix: Solid**

**Analysis Batch: 188558**

**Client Sample ID: S-5-13**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 188375**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
TPH as Diesel (C10-C28)	5500		443	5648	4	mg/Kg	⊛	31		37 - 175	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>	<b>Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	114									50 - 150		

**Lab Sample ID: 570-72859-22 MSD**

**Matrix: Solid**

**Analysis Batch: 188558**

**Client Sample ID: S-5-13**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 188375**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
TPH as Motor Oil (C17-C44)	4400		463	5253	4	mg/Kg	⊛	190		71 - 174	19	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b>	<b>MSD</b>	<b>Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	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**

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
TPH as Diesel Range	ND		5.0	mg/Kg		10/22/21 12:40	10/22/21 15:12	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		10/22/21 12:40	10/22/21 15:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB</b>	<b>MB</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>n-Octacosane (Surr)</i>	94					10/22/21 12:40	10/22/21 15:12	1

**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**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
TPH as Diesel (C10-C28)	400	400.2		mg/Kg		100		76 - 126
<b>Surrogate</b>	<b>LCS</b>	<b>LCS</b>	<b>Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	95							50 - 150

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# QC Sample Results

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 570-188587/6-A**  
**Matrix: Solid**  
**Analysis Batch: 188570**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188587**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	404.8		mg/Kg		101	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	93		50 - 150				

**Lab Sample ID: LCSD 570-188587/3-A**  
**Matrix: Solid**  
**Analysis Batch: 188570**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188587**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	393.9		mg/Kg		98	76 - 126	2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	92		50 - 150						

**Lab Sample ID: LCSD 570-188587/7-A**  
**Matrix: Solid**  
**Analysis Batch: 188570**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188587**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	390.8		mg/Kg		98	71 - 139	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	94		50 - 150						

**Lab Sample ID: 570-72859-8 MS**  
**Matrix: Solid**  
**Analysis Batch: 188570**

**Client Sample ID: S-5-17**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188587**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	60	F2	470	496.4		mg/Kg	⊛	93	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	89		50 - 150						

**Lab Sample ID: 570-72859-8 MS**  
**Matrix: Solid**  
**Analysis Batch: 188570**

**Client Sample ID: S-5-17**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188587**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	52	F2	434	692.5		mg/Kg	⊛	147	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	88		50 - 150						

# QC Sample Results

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: 570-72859-8 MSD**  
**Matrix: Solid**  
**Analysis Batch: 188570**

**Client Sample ID: S-5-17**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188587**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Diesel (C10-C28)	60	F2	436	264.2	F2	mg/Kg	⊛	47	37 - 175	61	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b> <b>Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	69		50 - 150								

**Lab Sample ID: 570-72859-8 MSD**  
**Matrix: Solid**  
**Analysis Batch: 188570**

**Client Sample ID: S-5-17**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188587**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	52	F2	454	460.8	F2	mg/Kg	⊛	90	71 - 174	40	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b> <b>Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	93		50 - 150								



# QC Association Summary

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

Job ID: 570-72859-1

## GC VOA

### Prep Batch: 186862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-1	S-15-18A	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-I7	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-15-18A	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	
LCS 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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# QC Association Summary

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

Job ID: 570-72859-1

## GC VOA (Continued)

### Analysis Batch: 187196 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72859-28	S-10-H2	Total/NA	Solid	NWTPH-Gx	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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# QC Association Summary

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

Job ID: 570-72859-1

## 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-I3	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

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# QC Association Summary

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

Job ID: 570-72859-1

## 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-I7	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-I7	Silica Gel Cleanup	Solid	NWTPH-Dx	188587
570-72859-8 MS	S-5-I7	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-I7	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-I7	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-8	S-5-I7	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-I5	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-13	S-5-I5	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-14	S-7.5-I5	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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# QC Association Summary

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

Job ID: 570-72859-1

## 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-I7	Silica Gel Cleanup	Solid	3550C SGC	
570-72859-8 MSD	S-5-I7	Silica Gel Cleanup	Solid	3550C SGC	

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# Lab Chronicle

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

Job ID: 570-72859-1

## Client Sample ID: S-15-I8A

Lab Sample ID: 570-72859-1

Date Collected: 10/13/21 11:00

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			188570	10/22/21 18:08	A1W	ECL 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		1	5 g	5 mL	187023	10/16/21 16:50	P1R	ECL 2
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 Instrument ID: GC50		5			188570	10/22/21 18:28	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		1	5 g	5 mL	187023	10/16/21 18:00	P1R	ECL 2
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 Instrument ID: GC50		10			188570	10/22/21 18:47	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		250	5 mL	5 mL	187353	10/19/21 01:07	P1R	ECL 2
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 Instrument ID: GC50		10			188570	10/22/21 19:07	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-72859-1

## Client Sample ID: S-10-H6

Lab Sample ID: 570-72859-5

Date Collected: 10/13/21 11:30

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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	NWTPH-Dx Instrument ID: GC50		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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.745 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	187511	10/19/21 18:18	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			6.61 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		1			188570	10/22/21 19:47	A1W	ECL 1

## Client Sample ID: S-3.5-I7

Lab Sample ID: 570-72859-7

Date Collected: 10/13/21 11:40

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		100	5 mL	5 mL	187202	10/18/21 21:35	P1R	ECL 2
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 Instrument ID: GC50		10			188570	10/22/21 20:06	A1W	ECL 1

## Client Sample ID: S-5-I7

Lab Sample ID: 570-72859-8

Date Collected: 10/13/21 11:45

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC53		1	5 g	5 mL	187196	10/18/21 13:23	A9VE	ECL 2
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 Instrument ID: GC50		1			188570	10/22/21 20:26	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-72859-1

## Client Sample ID: S-10-I7

## Lab Sample ID: 570-72859-9

Date Collected: 10/13/21 11:50

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-12.5-I7

## Lab Sample ID: 570-72859-10

Date Collected: 10/13/21 11:55

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.597 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	187202	10/18/21 20:01	P1R	ECL 2
Instrument ID: GC57										
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	10/22/21 21:06	A1W	ECL 1
Instrument ID: GC50										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-2.5-I5

## Lab Sample ID: 570-72859-12

Date Collected: 10/13/21 12:05

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										



# Lab Chronicle

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

Job ID: 570-72859-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		50	5 mL	5 mL	189079	10/26/21 00:23	P1R	ECL 2
Instrument ID: GC1										
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
Instrument ID: GC50										

## Client Sample ID: S-7.5-I5

Lab Sample ID: 570-72859-14

Date Collected: 10/13/21 12:15

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	187353	10/19/21 02:17	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.74 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188570	10/22/21 23:05	A1W	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-10-I5

Lab Sample ID: 570-72859-15

Date Collected: 10/13/21 12:20

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.513 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 02:40	P1R	ECL 2
Instrument ID: GC57										
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
Instrument ID: GC50										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-72859-1

## Client Sample ID: S-12.5-I5-DUP

Lab Sample ID: 570-72859-17

Date Collected: 10/13/21 12:30

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.222 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		1	5 g	5 mL	187196	10/18/21 15:23	A9VE	ECL 2
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 Instrument ID: GC50		1			188570	10/23/21 00:05	A1W	ECL 1

## Client Sample ID: S-5-H4

Lab Sample ID: 570-72859-18

Date Collected: 10/13/21 13:15

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.191 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		20	5 mL	5 mL	187196	10/18/21 16:35	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	188587	10/22/21 12:40	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		5			188570	10/23/21 00:25	A1W	ECL 1

## Client Sample ID: S-7.5-H4

Lab Sample ID: 570-72859-19

Date Collected: 10/13/21 13:20

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			188570	10/23/21 00:45	A1W	ECL 1

## Client Sample ID: S-2.5-I3

Lab Sample ID: 570-72859-20

Date Collected: 10/13/21 13:25

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.558 g	5 g	186862	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		1	5 g	5 mL	187196	10/18/21 15:47	A9VE	ECL 2
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 Instrument ID: GC50		20			188570	10/23/21 01:04	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-72859-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/19/21 23:01	P1R	ECL 2
Instrument ID: GC25										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-10-I3

Lab Sample ID: 570-72859-24

Date Collected: 10/13/21 13:40

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-72859-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC48		10			188558	10/23/21 00:47	N5Y3	ECL 1

## Client Sample ID: S-5-H2

Lab Sample ID: 570-72859-26

Date Collected: 10/13/21 13:50

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.485 g	5 mL	186863	10/15/21 13:00	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		100	5 mL	5 mL	187202	10/18/21 21:59	P1R	ECL 2
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 Instrument ID: GC48		5			188558	10/23/21 01:08	N5Y3	ECL 1

## Client Sample ID: S-7.5-H2

Lab Sample ID: 570-72859-27

Date Collected: 10/13/21 13:55

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1000	5 mL	5 mL	187353	10/19/21 03:04	P1R	ECL 2
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 Instrument ID: GC48		5			188558	10/23/21 01:29	N5Y3	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC53		1	5 g	5 mL	187196	10/18/21 14:11	A9VE	ECL 2
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 Instrument ID: GC48		5			188558	10/23/21 01:50	N5Y3	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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-72859-1

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-18	10-12-22

1

2

3

4

5

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15

# Method Summary

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

Job ID: 570-72859-1

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

## 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-I3. Please call with questions.

70	S-2.5-I3	S-2.5-I3	10/13/2021	1325
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Client Sample ID: S-2.5-H3				Lab Sample ID: 570-72859-20				
Date Collected: 10/13/21 13:25				Matrix: Solid				
Date Received: 10/14/21 10:00								
<b>Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)</b>								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3.1		0.25	mg/Kg	⊖	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
<b>Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup</b>								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	660		110	mg/Kg	⊖	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

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](mailto:laina.cole@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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72859



7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
CalScience TEL: (714) 896-6494 . FAX: (714) 894-7601

**Site Name** Everett Bulk Plant  
*Provide MRN for retail or AFE for major projects*  
**Project Name** ExxonMobil ADC / 0314476040  
*Retail Project (MRN)*  
*Major Project (AFE)*

**CHAIN OF CUSTODY RECORD**  
DATE 10/13/2021  
PAGE 1 OF 2

ExxonMobil Engr: Jennifer Sedlachek

**Laboratory Client:** Cardno  
Address: 309 South Cloverdale Street Unit A13  
City: Seattle, WA 98108  
Tel: 206-510-5855  
Turnaround Time:  Same Day  24 HR  48 HR  72 HR  10 Days

**Project Information:**  
Global ID # COELT LOG CODE: \_\_\_\_\_  
Project Contact: Robert Thompson  
Sampler(s): Paul Prevou, Cameron Penner-Ash, John Considine

**Special Requirements:**  RWQCB Reporting  Archive Samples Until \_\_\_\_\_

**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.thompson@cardno.com  
All units in mg/kg.  
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	MAT-RIX	ANALYSIS		CONTAINER TYPE
			DATE	TIME			Perform M/MSD	Motor Oil	
	1 S-15-I8A	S-15-I8A	10/13/2021	1100	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	2 S-2.5-H6	S-2.5-H6	10/13/2021	1115	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	3 S-5-H6	S-5-H6	10/13/2021	1120	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	4 S-7.5-H6	S-7.5-H6	10/13/2021	1125	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	5 S-10-H6	S-10-H6	10/13/2021	1130	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	6 S-12.5-H6	S-12.5-H6	10/13/2021	1135	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	7 S-2.5-I7	S-2.5-I7	10/13/2021	1140	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	8 S-5-I7	S-5-I7	10/13/2021	1145	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	9 S-10-I7	S-10-I7	10/13/2021	1150	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	10 S-12.5-I7	S-12.5-I7	10/13/2021	1155	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	11 S-15-I7	S-15-I7	10/13/2021	1200	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	12 S-2.5-I5	S-2.5-I5	10/13/2021	1205	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	13 S-5-I5	S-5-I5	10/13/2021	1210	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	14 S-7.5-I5	S-7.5-I5	10/13/2021	1215	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	15 S-10-I5	S-10-I5	10/13/2021	1220	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	16 S-12.5-I5	S-12.5-I5	10/13/2021	1225	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	17 S-15-I5	S-15-I5	10/13/2021	1230	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	18 S-5-H4	S-5-H4	10/13/2021	1315	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	19 S-7.5-H4	S-7.5-H4	10/13/2021	1320	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	20 S-2.5-I3	S-2.5-I3	10/13/2021	1325	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	M Trip Blank	Trip Blank	10/13/2021		2		X		2 VOAs
	E0B4	E0B1	401-2024						

**Requested Analysis:** PERFORM M/MSD, MOTOR OIL

**Barcode:** 570-72859 Chain of Custody

**Signatures:**  
 Received by (Signature): Paul Prevou  
 Received by (Signature): Cameron Penner-Ash  
 Received by (Signature): Jennifer Sedlachek  
 Received by (Signature): FedEx

**Date & Time:** 10/13/2021 4:15:00 PM

**Handwritten:** 2.3/22 SCS, Yaver

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72859

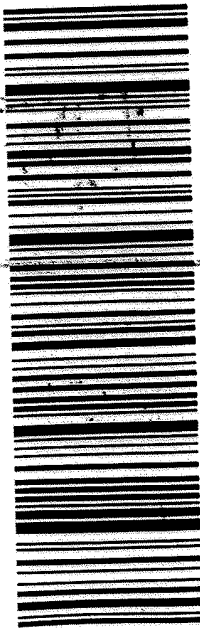


570-72859 Waybill

THU - 14 OCT 4:30P  
STANDARD OVERNIGHT  
NSR AHS  
92841  
SNA  
CA-US  
RRDB EXP 06/22

FedEx  
TRK# 8135 3321 7292  
0200

92 APVA



56DJ3/14BR/FE4A

10/14/2021

Date: 10/13/21

Signature: *[Handwritten Signature]*

RT 30

10/13/21  
*[Handwritten Signature]*

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SEAL

# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-72859-1

**Login Number: 72859**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Ramos, Maribel**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## 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

*Cecile de Guia*

---

Authorized for release by:  
10/28/2021 12:01:01 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExoonMobil ADC/0314476040

Job ID: 570-72864-1

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
570-72864-33	Trip Blank	Water	10/13/21 00:00	10/14/21 10:00

# Definitions/Glossary

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

Job ID: 570-72864-1

## Qualifiers

### 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.
α	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

# 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.



# Detection Summary

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

Job ID: 570-72864-1

## Client Sample ID: S-2.5-F1

## Lab Sample ID: 570-72864-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	120		30	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-F1

## Lab Sample ID: 570-72864-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	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	D	Method	Prep Type
TPH as Gasoline (C4-C13)	51		14	mg/Kg	50	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	20		6.7	mg/Kg	1	✳	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	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	6.8		5.6	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
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	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	610		58	mg/Kg	200	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	7800		140	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	3700		140	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## 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)	170		12	mg/Kg	50	✳	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-72864-1

## Client Sample ID: S-5-F2

## Lab Sample ID: 570-72864-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	180		120	mg/Kg	500	✖	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

## Lab Sample ID: 570-72864-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	170		10	mg/Kg	50	✖	NWTPH-Gx	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

## Lab Sample ID: 570-72864-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	7.5		0.22	mg/Kg	1	✖	NWTPH-Gx	Total/NA
TPH as Diesel Range	2400		59	mg/Kg	10	✖	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	680		59	mg/Kg	10	✖	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-G3

## Lab Sample ID: 570-72864-12

No Detections.

## Client Sample ID: S-2.5-F4

## Lab Sample ID: 570-72864-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	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

## Lab Sample ID: 570-72864-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	560		120	mg/Kg	500	✖	NWTPH-Gx	Total/NA
TPH as Diesel Range	11000		54	mg/Kg	5	✖	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	800		54	mg/Kg	5	✖	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-F4

## Lab Sample ID: 570-72864-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.25		0.22	mg/Kg	1	✖	NWTPH-Gx	Total/NA

## Client Sample ID: S-10-F4

## Lab Sample ID: 570-72864-16

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-72864-1

## Client Sample ID: S-12.5-F4

## Lab Sample ID: 570-72864-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	55		40	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-G5

## Lab Sample ID: 570-72864-18

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-G5

## Lab Sample ID: 570-72864-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	110		20	mg/Kg	100	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	1600		120	mg/Kg	20	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	810		120	mg/Kg	20	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-G5

## Lab Sample ID: 570-72864-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	280		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 Sample ID: 570-72864-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	3.3		1.1	mg/Kg	1	✳	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 Sample ID: 570-72864-22

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-F6

## Lab Sample ID: 570-72864-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	520		56	mg/Kg	200	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range - DL	22000		270	mg/Kg	25	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - DL	3100		270	mg/Kg	25	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-72864-1

## Client Sample ID: S-10-F6

## Lab Sample ID: 570-72864-24

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: 570-72864-25

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-F6

## Lab Sample ID: 570-72864-26

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-G7

## Lab Sample ID: 570-72864-27

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: 570-72864-28

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 Cleanup
TPH as Motor Oil Range	2000		46	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-G7

## Lab Sample ID: 570-72864-29

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-G7

## Lab Sample ID: 570-72864-30

Analyte	Result	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 Cleanup
TPH as Motor Oil Range	1500		38	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-72864-1

## Client Sample ID: S-12.5-G7

## Lab Sample ID: 570-72864-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	9.5		0.57	mg/Kg	1	✳	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	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	56		41	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	120		41	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: Trip Blank

## Lab Sample ID: 570-72864-33

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-72864-1

## 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 - 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	☼	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

### 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		30	mg/Kg	☼	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	5

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.19		0.19	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	71		28	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101		50 - 150	10/22/21 17:41	10/23/21 16:43	5

## Client Sample ID: S-7.5-F1

Lab Sample ID: 570-72864-3

Date Collected: 10/13/21 07:35

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)	51		14	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	20		6.7	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		50 - 150	10/22/21 17:41	10/23/21 17:02	1

# Client Sample Results

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

Job ID: 570-72864-1

## Client Sample ID: S-2.5-G1

Lab Sample ID: 570-72864-4

Date Collected: 10/13/21 08:10

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)	ND		0.22	mg/Kg	☼	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

### 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	100		55	mg/Kg	☼	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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.19	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6.8		5.6	mg/Kg	☼	10/22/21 17:41	10/23/21 17:43	1
TPH as Motor Oil Range	13		5.6	mg/Kg	☼	10/22/21 17:41	10/23/21 17:43	1
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

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum 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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	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	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	99		50 - 150			10/22/21 17:41	10/23/21 18:04	10

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# Client Sample Results

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

Job ID: 570-72864-1

## Client Sample ID: S-10-G1

Date Collected: 10/13/21 08:25

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-7

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	☼	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

### 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		11	mg/Kg	☼	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	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

Date Collected: 10/13/21 08:30

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-8

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		12	mg/Kg	☼	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

### 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		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

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum 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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150	10/21/21 12:59	10/23/21 23:02	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	7200		55	mg/Kg	☼	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 Results

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

Job ID: 570-72864-1

## Client Sample ID: S-2.5-G3

Lab Sample ID: 570-72864-10

Date Collected: 10/13/21 08:40

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)	170		10	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5600		59	mg/Kg	☼	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

Date Collected: 10/13/21 08:45

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)	7.5		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	☼	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

## Client Sample ID: S-7.5-G3

Lab Sample ID: 570-72864-12

Date Collected: 10/13/21 08:50

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)	ND		0.28	mg/Kg	☼	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 - 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	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150	10/22/21 17:41	10/23/21 20:45	1

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# Client Sample Results

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

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

## Lab Sample ID: 570-72864-13

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)	180		11	mg/Kg	☼	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

### 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	570		29	mg/Kg	☼	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

## 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

### 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	☼	10/21/21 12:59	10/26/21 21:45	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		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	☼	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 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

### 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	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150	10/21/21 12:59	10/25/21 19:11	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	☼	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

# Client Sample Results

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

Job ID: 570-72864-1

## 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

### 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	☼	10/21/21 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

### 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	☼	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

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-17

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	☼	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 - Northwest - Semi-Volatile Petroleum Products (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

Date Collected: 10/13/21 09:30

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-18

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		22	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		50 - 150			10/22/21 17:41	10/23/21 22:46	10

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# Client Sample Results

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

Job ID: 570-72864-1

## Client Sample ID: S-7.5-G5

Lab Sample ID: 570-72864-19

Date Collected: 10/13/21 09:35

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)	110		20	mg/Kg	☼	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

### 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	1600		120	mg/Kg	☼	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

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)	280		28	mg/Kg	☼	10/21/21 12:59	10/26/21 01:03	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

### 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	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

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)	3.3		1.1	mg/Kg	☼	10/21/21 12:59	10/25/21 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150	10/21/21 12:59	10/25/21 22:18	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	760		36	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150	10/22/21 18:28	10/24/21 03:13	1

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# Client Sample Results

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

Job ID: 570-72864-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	150		58	mg/Kg	☼	10/21/21 12:59	10/24/21 04:33	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		50 - 150	10/21/21 12:59	10/24/21 04:33	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	☼	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

Date Collected: 10/13/21 10:00

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-23

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)	520		56	mg/Kg	☼	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	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	22000		270	mg/Kg	☼	10/22/21 18:28	10/26/21 16:02	25
TPH as Motor Oil Range	3100		270	mg/Kg	☼	10/22/21 18:28	10/26/21 16:02	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150	10/22/21 18:28	10/26/21 16:02	25

## Client Sample ID: S-10-F6

Date Collected: 10/13/21 10:05

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-24

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)	560		99	mg/Kg	☼	10/21/21 12:59	10/24/21 05:20	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		50 - 150	10/21/21 12:59	10/24/21 05:20	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	Analyzed	Dil Fac
n-Octacosane (Surr)	132		50 - 150	10/22/21 18:28	10/26/21 16:23	50

# Client Sample Results

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

Job ID: 570-72864-1

## Client Sample ID: S-12.5-F6

Date Collected: 10/13/21 10:10

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-25

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)	92		66	mg/Kg	☼	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

### 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	3200		66	mg/Kg	☼	10/22/21 18:28	10/24/21 04:37	5
TPH as Motor Oil Range	760		66	mg/Kg	☼	10/22/21 18:28	10/24/21 04:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150	10/22/21 18:28	10/24/21 04:37	5

## Client Sample ID: S-15-F6

Date Collected: 10/13/21 10:15

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-26

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		0.73	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		24	mg/Kg	☼	10/22/21 18:28	10/24/21 04:57	1
TPH as Motor Oil Range	53		24	mg/Kg	☼	10/22/21 18:28	10/24/21 04:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		50 - 150	10/22/21 18:28	10/24/21 04:57	1

## Client Sample ID: S-2.5-G7

Date Collected: 10/13/21 10:30

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-27

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)	6.9		0.24	mg/Kg	☼	10/21/21 12:59	10/25/21 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		50 - 150	10/21/21 12:59	10/25/21 23:05	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	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

# Client Sample Results

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

Job ID: 570-72864-1

## Client Sample ID: S-5-G7

Date Collected: 10/13/21 10:35

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-28

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)	95		9.1	mg/Kg	☼	10/21/21 12:59	10/26/21 18:41	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150	10/21/21 12:59	10/26/21 18:41	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	6500		46	mg/Kg	☼	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

Date Collected: 10/13/21 10:40

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-29

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)	240		22	mg/Kg	☼	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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	8200		37	mg/Kg	☼	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

Date Collected: 10/13/21 10:45

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-30

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)	190		26	mg/Kg	☼	10/21/21 12:59	10/26/21 20:34	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		50 - 150	10/21/21 12:59	10/26/21 20:34	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	4300		38	mg/Kg	☼	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	5

# Client Sample Results

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

Job ID: 570-72864-1

## 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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	9.5		0.57	mg/Kg	☼	10/21/21 12:59	10/26/21 00:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		50 - 150			10/21/21 12:59	10/26/21 00:39	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	85		41	mg/Kg	☼	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

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-32

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)	ND		1.0	mg/Kg	☼	10/20/21 09:50	10/20/21 17:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150			10/20/21 09:50	10/20/21 17:17	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	56		41	mg/Kg	☼	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

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72864-33

Matrix: Water

### 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			10/19/21 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  
 Project/Site: ExoonMobil ADC/0314476040

Job ID: 570-72864-1

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

**Matrix: Solid**

**Prep Type: Total/NA**

**Percent Surrogate Recovery (Acceptance Limits)**

Lab Sample ID	Client Sample ID	BFB1 (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

# Surrogate Summary

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

Job ID: 570-72864-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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-Bromofluorobenzene (Surr)

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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

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)

Lab Sample ID	Client Sample ID	OTCSN (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
570-72864-1 MSD	S-2.5-F1	100
570-72864-1 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
570-72864-9	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
570-72864-13	S-2.5-F4	102
570-72864-14	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  
 Project/Site: ExoonMobil ADC/0314476040

Job ID: 570-72864-1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

**Percent Surrogate Recovery (Acceptance Limits)**

Lab Sample ID	Client Sample ID	OTCSN (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-Octacosane (Surr)

# QC Sample Results

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

Job ID: 570-72864-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-187662/5**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ug/L			10/19/21 18:52	1
Surrogate	MB %Recovery	MB 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**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2130	2099		ug/L		99	76 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	91		50 - 150				

**Lab Sample ID: LCSD 570-187662/4**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2130	2111		ug/L		99	76 - 128	1	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	87		50 - 150						

**Lab Sample ID: 570-72969-D-3 MS**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	ND		2130	2070		ug/L		97	69 - 132
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		50 - 150						

**Lab Sample ID: 570-72969-D-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2130	2120		ug/L		100	69 - 132	2	15
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		50 - 150								

# QC Sample Results

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

Job ID: 570-72864-1

## 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**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg		10/20/21 09:50	10/20/21 12:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		50 - 150			10/20/21 09:50	10/20/21 12:06	1

**Lab Sample ID: LCS 570-187828/1-A**  
**Matrix: Solid**  
**Analysis Batch: 187780**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 187828**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.247		mg/Kg		105	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	127		50 - 150				

**Lab Sample ID: LCSD 570-187828/2-A**  
**Matrix: Solid**  
**Analysis Batch: 187780**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 187828**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.176		mg/Kg		102	77 - 128	3	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	128		50 - 150						

**Lab Sample ID: 570-73185-B-4-B MS**  
**Matrix: Solid**  
**Analysis Batch: 187780**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 187828**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	ND		2.12	1.865		mg/Kg		88	48 - 114
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	136		50 - 150						

**Lab Sample ID: 570-73185-B-4-C MSD**  
**Matrix: Solid**  
**Analysis Batch: 187780**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 187828**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2.12	1.581		mg/Kg		75	48 - 114	16	23
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	133		50 - 150								

# QC Sample Results

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

Job ID: 570-72864-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-188790/5**  
**Matrix: Solid**  
**Analysis Batch: 188790**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg	-		10/23/21 12:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150				10/23/21 12:17	1

**Lab Sample ID: LCS 570-188790/3**  
**Matrix: Solid**  
**Analysis Batch: 188790**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	1.768		mg/Kg	-	83	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		50 - 150				

**Lab Sample ID: LCSD 570-188790/4**  
**Matrix: Solid**  
**Analysis Batch: 188790**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.807		mg/Kg	-	85	77 - 128	2	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		50 - 150						

**Lab Sample ID: MB 570-188860/5**  
**Matrix: Solid**  
**Analysis Batch: 188860**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg	-		10/23/21 13:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150				10/23/21 13:54	1

**Lab Sample ID: MB 570-188860/6**  
**Matrix: Solid**  
**Analysis Batch: 188860**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg	-		10/23/21 14:17	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150				10/23/21 14:17	20

# QC Sample Results

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

Job ID: 570-72864-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-188860/3**  
**Matrix: Solid**  
**Analysis Batch: 188860**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.932		mg/Kg		91	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	86		50 - 150				

**Lab Sample ID: LCSD 570-188860/4**  
**Matrix: Solid**  
**Analysis Batch: 188860**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.856		mg/Kg		87	77 - 128	4	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	108		50 - 150						

**Lab Sample ID: MB 570-188902/32**  
**Matrix: Solid**  
**Analysis Batch: 188902**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/24/21 01:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	87		50 - 150				10/24/21 01:01	1

**Lab Sample ID: MB 570-188902/33**  
**Matrix: Solid**  
**Analysis Batch: 188902**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/24/21 01:24	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	68		50 - 150				10/24/21 01:24	20

**Lab Sample ID: LCS 570-188902/30**  
**Matrix: Solid**  
**Analysis Batch: 188902**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	1.813		mg/Kg		85	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	106		50 - 150				

# QC Sample Results

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

Job ID: 570-72864-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-188902/31**  
**Matrix: Solid**  
**Analysis Batch: 188902**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.867		mg/Kg		88	77 - 128	3	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	106		50 - 150						

**Lab Sample ID: MB 570-189086/5**  
**Matrix: Solid**  
**Analysis Batch: 189086**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/25/21 14:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	86		50 - 150			10/25/21 14:43	1	

**Lab Sample ID: MB 570-189086/6**  
**Matrix: Solid**  
**Analysis Batch: 189086**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/25/21 15:07	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene (Surr)	73		50 - 150			10/25/21 15:07	20	

**Lab Sample ID: LCS 570-189086/3**  
**Matrix: Solid**  
**Analysis Batch: 189086**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.854		mg/Kg		87	77 - 128		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	94		50 - 150						

**Lab Sample ID: LCSD 570-189086/4**  
**Matrix: Solid**  
**Analysis Batch: 189086**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.951		mg/Kg		92	77 - 128	5	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	105		50 - 150						



# QC Sample Results

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

Job ID: 570-72864-1

## 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**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/26/21 14:36	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150				10/26/21 14:36	20

**Lab Sample ID: LCS 570-189371/3**  
**Matrix: Solid**  
**Analysis Batch: 189371**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.003		mg/Kg		94	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	112		50 - 150				

**Lab Sample ID: LCSD 570-189371/4**  
**Matrix: Solid**  
**Analysis Batch: 189371**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.001		mg/Kg		94	77 - 128	0	16
Surrogate	LCSD %Recovery	LCSD Qualifier	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**

Analyte	MB Result	MB 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	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		10/22/21 17:41	10/23/21 13:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94		50 - 150			10/22/21 17:41	10/23/21 13:01	1

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	392.0		mg/Kg		98	76 - 126
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	93		50 - 150				

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# QC Sample Results

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

Job ID: 570-72864-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-188710/6-A**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188710**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	408.3		mg/Kg		102	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	94		50 - 150				

**Lab Sample ID: LCSD 570-188710/3-A**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188710**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	381.6		mg/Kg		95	76 - 126	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	91		50 - 150						

**Lab Sample ID: LCSD 570-188710/7-A**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188710**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	377.0		mg/Kg		94	71 - 139	8	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	91		50 - 150						

**Lab Sample ID: 570-72864-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: S-2.5-F1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188710**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	56		485	538.7		mg/Kg	⊛	100	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	92		50 - 150						

**Lab Sample ID: 570-72864-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: S-2.5-F1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188710**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	150		498	685.6		mg/Kg	⊛	107	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	91		50 - 150						

# QC Sample Results

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

Job ID: 570-72864-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-72864-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: S-2.5-F1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188710**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	56		470	591.8		mg/Kg	☼	114	37 - 175	9	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	100		50 - 150								

**Lab Sample ID: 570-72864-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: S-2.5-F1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188710**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	150		479	708.0		mg/Kg	☼	116	71 - 174	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	92		50 - 150								

**Lab Sample ID: MB 570-188727/1-A**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188727**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		10/22/21 18:28	10/23/21 13:21	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		10/22/21 18:28	10/23/21 13:21	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
<i>n-Octacosane (Surr)</i>	94		50 - 150	10/22/21 18:28	10/23/21 13:21	1		

**Lab Sample ID: LCS 570-188727/2-A**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188727**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	364.4		mg/Kg		91	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	94		50 - 150				

**Lab Sample ID: LCS 570-188727/6-A**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188727**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	364.7		mg/Kg		91	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	91		50 - 150				

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# QC Sample Results

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

Job ID: 570-72864-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-188727/3-A**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188727**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	366.5		mg/Kg		92	76 - 126	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	97		50 - 150						

**Lab Sample ID: LCSD 570-188727/7-A**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188727**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	363.2		mg/Kg		91	71 - 139	0	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	95		50 - 150						

**Lab Sample ID: 570-72864-27 MS**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: S-2.5-G7**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188727**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	7700		943	7769	4	mg/Kg	⊛	6	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	101		50 - 150								

**Lab Sample ID: 570-72864-27 MS**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: S-2.5-G7**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188727**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	6000	F2	864	4935	4	mg/Kg	⊛	-122	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	102		50 - 150								

**Lab Sample ID: 570-72864-27 MSD**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: S-2.5-G7**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188727**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	7700		853	8455	4	mg/Kg	⊛	88	37 - 175	8	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	111		50 - 150								

# QC Sample Results

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

Job ID: 570-72864-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-72864-27 MSD**  
**Matrix: Solid**  
**Analysis Batch: 188826**

**Client Sample ID: S-2.5-G7**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188727**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	6000	F2	833	6397	4 F2	mg/Kg	✱	49	71 - 174	26	20
<b>Surrogate</b>	<b>MSD</b>	<b>MSD</b>									
<i>n</i> -Octacosane (Surr)	100										50 - 150

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# QC Association Summary

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

Job ID: 570-72864-1

## 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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# QC Association Summary

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

Job ID: 570-72864-1

## 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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-72864-15	S-7.5-F4	Total/NA	Solid	NWTPH-Gx	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

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# QC Association Summary

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

Job ID: 570-72864-1

## 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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# QC Association Summary

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

Job ID: 570-72864-1

## GC Semi VOA (Continued)

### Prep Batch: 188710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-188710/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
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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# QC Association Summary

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

Job ID: 570-72864-1

## 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 - DL	S-10-F6	Silica Gel Cleanup	Solid	NWTPH-Dx	188727

# Lab Chronicle

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

Job ID: 570-72864-1

**Client Sample ID: S-2.5-F1**  
**Date Collected: 10/13/21 07:25**  
**Date Received: 10/14/21 10:00**

**Lab Sample ID: 570-72864-1**  
**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			5.271 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	188790	10/23/21 13:55	P1R	ECL 2
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 Instrument ID: GC50		5			188826	10/23/21 16:22	N1A	ECL 1

**Client Sample ID: S-5-F1**  
**Date Collected: 10/13/21 07:30**  
**Date Received: 10/14/21 10:00**

**Lab Sample ID: 570-72864-2**  
**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			7.68 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	188790	10/23/21 14:19	P1R	ECL 2
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 Instrument ID: GC50		5			188826	10/23/21 16:43	N1A	ECL 1

**Client Sample ID: S-7.5-F1**  
**Date Collected: 10/13/21 07:35**  
**Date Received: 10/14/21 10:00**

**Lab Sample ID: 570-72864-3**  
**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			5.862 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		50	5 mL	5 mL	188860	10/23/21 21:28	P1R	ECL 2
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 Instrument ID: GC50		1			188826	10/23/21 17:02	N1A	ECL 1

**Client Sample ID: S-2.5-G1**  
**Date Collected: 10/13/21 08:10**  
**Date Received: 10/14/21 10:00**

**Lab Sample ID: 570-72864-4**  
**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			6.598 g	5 g	188221	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		1	5 g	5 mL	188860	10/23/21 19:53	P1R	ECL 2
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 Instrument ID: GC50		10			188826	10/23/21 17:22	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-72864-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			188826	10/23/21 17:43	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.278 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		200	5 mL	5 mL	188902	10/24/21 04:10	P1R	ECL 2
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 Instrument ID: GC50		10			188826	10/23/21 18:04	N1A	ECL 1

## Client Sample ID: S-10-G1

Lab Sample ID: 570-72864-7

Date Collected: 10/13/21 08:25

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			188826	10/23/21 18:23	N1A	ECL 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		50	5 mL	5 mL	188860	10/23/21 22:39	P1R	ECL 2
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 Instrument ID: GC50		1			188826	10/23/21 18:43	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-72864-1

## Client Sample ID: S-5-F2

## Lab Sample ID: 570-72864-9

Date Collected: 10/13/21 08:35

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.696 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	188860	10/23/21 23:02	P1R	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC50										

## Client Sample ID: S-2.5-G3

## Lab Sample ID: 570-72864-10

Date Collected: 10/13/21 08:40

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-7.5-G3

## Lab Sample ID: 570-72864-12

Date Collected: 10/13/21 08:50

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.013 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-72864-1

## Client Sample ID: S-2.5-F4

Lab Sample ID: 570-72864-13

Date Collected: 10/13/21 09:00

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-5-F4

Lab Sample ID: 570-72864-14

Date Collected: 10/13/21 09:05

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	189371	10/26/21 21:45	P1R	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC50										

## Client Sample ID: S-7.5-F4

Lab Sample ID: 570-72864-15

Date Collected: 10/13/21 09:15

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-10-F4

Lab Sample ID: 570-72864-16

Date Collected: 10/13/21 09:20

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.659 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-72864-1

## Client Sample ID: S-12.5-F4

## Lab Sample ID: 570-72864-17

Date Collected: 10/13/21 09:25

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			188826	10/23/21 22:25	N1A	ECL 1

## Client Sample ID: S-5-G5

## Lab Sample ID: 570-72864-18

Date Collected: 10/13/21 09:30

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.607 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		100	5 mL	5 mL	189086	10/25/21 20:22	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			5.91 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		10			188826	10/23/21 22:46	N1A	ECL 1

## Client Sample ID: S-7.5-G5

## Lab Sample ID: 570-72864-19

Date Collected: 10/13/21 09:35

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		100	5 mL	5 mL	189086	10/25/21 20:46	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.59 g	10 mL	188710	10/22/21 17:41	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		20			188826	10/23/21 23:06	N1A	ECL 1

## Client Sample ID: S-10-G5

## Lab Sample ID: 570-72864-20

Date Collected: 10/13/21 09:40

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		100	5 mL	5 mL	189086	10/26/21 01:03	P1R	ECL 2
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 Instrument ID: GC48	RA	1			189384	10/26/21 14:40	UJ3K	ECL 1

# Lab Chronicle

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

Job ID: 570-72864-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			188826	10/24/21 03:13	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.805 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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	NWTPH-Dx Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.648 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		200	5 mL	5 mL	188902	10/24/21 04:57	P1R	ECL 2
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 Instrument ID: GC48	DL	25			189384	10/26/21 16:02	UJ3K	ECL 1

## Client Sample ID: S-10-F6

Lab Sample ID: 570-72864-24

Date Collected: 10/13/21 10:05

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.143 g	5 mL	188222	10/21/21 12:59	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		200	5 mL	5 mL	188902	10/24/21 05:20	P1R	ECL 2
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 Instrument ID: GC48	DL	50			189384	10/26/21 16:23	UJ3K	ECL 1



# Lab Chronicle

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

Job ID: 570-72864-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.94 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
Instrument 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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	189086	10/25/21 22:41	P1R	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC50										

## Client Sample ID: S-2.5-G7

Lab Sample ID: 570-72864-27

Date Collected: 10/13/21 10:30

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.955 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-5-G7

Lab Sample ID: 570-72864-28

Date Collected: 10/13/21 10:35

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-72864-1

## Client Sample ID: S-7.5-G7

Lab Sample ID: 570-72864-29

Date Collected: 10/13/21 10:40

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-10-G7

Lab Sample ID: 570-72864-30

Date Collected: 10/13/21 10:45

Matrix: Solid

Date Received: 10/14/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.927 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 20:34	P1R	ECL 2
Instrument ID: GC56										
Silica Gel Cleanup	Prep	3550C SGC			8.13 g	10 mL	188727	10/22/21 18:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188826	10/24/21 06:21	N1A	ECL 1
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	189086	10/26/21 00:39	P1R	ECL 2
Instrument ID: GC56										
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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-72864-1

**Client Sample ID: Trip Blank**

**Lab Sample ID: 570-72864-33**

**Date Collected: 10/13/21 00:00**

**Matrix: Water**

**Date Received: 10/14/21 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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  
Project/Site: ExoonMobil ADC/0314476040

Job ID: 570-72864-1

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-18	10-12-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Method Summary

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

Job ID: 570-72864-1

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

## 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](mailto:robert.thompson@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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---

**From:** de Guia, Cecile <Cecile.deGuia@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.

Best regards,  
Cecile de Guia  
Project Manager



Eurofins Calscience  
7440 Lincoln Way  
Garden Grove, Ca 92841  
USA  
P: +1 714 895 5494  
F: +1 714 894 7501

[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)  
[www.EurofinsUS.com/Calscience](http://www.EurofinsUS.com/Calscience)

---

**From:** Bobby Thompson <[robert.thompson@cardno.com](mailto:robert.thompson@cardno.com)>  
**Sent:** Friday, October 15, 2021 10:02 AM  
**To:** de Guia, Cecile <[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)>; Laina Cole <[laina.cole@cardno.com](mailto:laina.cole@cardno.com)>; Cam Penner-Ash <[cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)>; Paul Prevou <[paul.prevou@cardno.com](mailto: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](mailto:robert.thompson@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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---

**From:** de Guia, Cecile <[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)>  
**Sent:** Friday, October 15, 2021 10:40 AM  
**To:** Laina Cole <[laina.cole@cardno.com](mailto:laina.cole@cardno.com)>; Bobby Thompson <[robert.thompson@cardno.com](mailto:robert.thompson@cardno.com)>; Cam Penner-Ash <[cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)>; Paul Prevou <[paul.prevou@cardno.com](mailto: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: [Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)  
Website: [www.eurofinsUS.com/Calscience](http://www.eurofinsUS.com/Calscience)

---

**From:** de Guia, Cecile <[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)>  
**Sent:** Friday, October 15, 2021 9:26 AM  
**To:** Cameron Penner-Ash <[cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)>; Laina Cole <[laina.cole@cardno.com](mailto:laina.cole@cardno.com)>; Bobby Thompson <[robert.thompson@cardno.com](mailto:robert.thompson@cardno.com)>  
**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](mailto:Cecile.deGuia@eurofinset.com)





7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
CalciScience  
TEL: (714) 895-5494 . FAX: (714) 894-7601

**Site Name** Everett Bulk Plant  
*Provide MRN for retail or AFE for major projects*  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE 10/13/2021  
PAGE 1 OF 2

ExxonMobil Engr. Jennifer Sedlachek

LABORATORY CLIENT  
**Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855 FAX: N/A robert.thompson@cardno.com

GLOBAL ID # COELT LOG CODE: P O 0314476040 Agreement# A2604415

PROJECT CONTACT: Robert Thompson  
SAMPLER(S): Paul Prevou, Cameron Penner-Ash, John Considine

LAB USE ONLY  
COOLER RECEIPT  
Temp #

**REQUESTED ANALYSIS**



570-72864 Chain of Custody

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	MAT- RIX	NMPH-GX TPH as Gasoline	NMPH-DX TPH as Diesel and Motor Oil	CONTAINER TYPE
			DATE	TIME					
	1	S-2.5-F1	10/13/2021	0725	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	2	S-5-F1	10/13/2021	0730	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	3	S-7.5-F1	10/13/2021	0735	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	4	S-2.5-F1	10/13/2021	0810	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	5	S-5-G1	10/13/2021	0815	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	6	S-7.5-G1	10/13/2021	0820	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	7	S-10-G1	10/13/2021	0825	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	8	S-2.5-F2	10/13/2021	0830	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	9	S-5-F2	10/13/2021	0835	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	10	S-7.5-G3	10/13/2021	0840	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	11	S-5-G3	10/13/2021	0845	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	12	S-2.5-G3	10/13/2021	0850	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	13	S-5-F4	10/13/2021	0900	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	14	S-7.5-F4	10/13/2021	0905	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	15	S-10-F4	10/13/2021	0915	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	16	S-12.5-F4	10/13/2021	0920	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	17	S-5-G5	10/13/2021	0930	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	18	S-7.5-G5	10/13/2021	0935	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
	19	S-10-G5	10/13/2021	0940	4	S	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
		Tripp Blank	10/13/2021						
		EGBA	10/13/2021						

Relinquished by (Signature) Paul Prevou  
Relinquished by (Signature) Paul Prevou  
Relinquished by (Signature) Paul Prevou

Received by (Signature) FedEx  
Received by (Signature) FedEx  
Received by (Signature) FedEx

Date & Time: 10/13/2021 4 15 00 PM  
Date & Time: 10/13/2021 1000  
Date & Time: 10/13/2021 1000

3.0/3.9 SCS







570-72864 Waybill

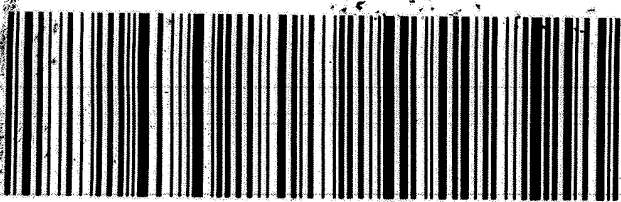
FedEx  
TRK# 8158 1726 1190  
0215

THU - 14 OCT 4:30P  
STANDARD OVERNIGHT

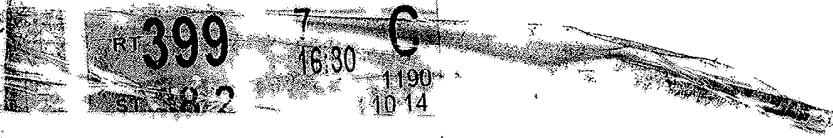
92 APVA

NSR AHS  
92841  
CA-US SNA

Part # 156237235 - RPOB Exp 06/22



56DJ9/14BR/FE4A



MAINTAIN ORIGINAL SEAL

Date: 10/13/21

Signature: *[Handwritten Signature]*

  
ENVIRONMENTAL SAMPLING SUPPLY  
essvial.com 800-233-2425

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# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-72864-1

**Login Number: 72864**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Ramos, Maribel**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



## 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

*Cecile de Guia*

---

Authorized for release by:  
10/29/2021 9:51:36 AM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73066-1

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
570-73066-30	S-10-N4	Solid	10/14/21 09:15	10/15/21 08:19

# Definitions/Glossary

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

Job ID: 570-73066-1

## Qualifiers

### GC VOA

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.
α	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



# Case Narrative

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

Job ID: 570-73066-1

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## Job ID: 570-73066-1

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### Laboratory: Eurofins Calscience LLC

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#### 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.

#### GC VOA

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.

# Detection Summary

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

Job ID: 570-73066-1

## Client Sample ID: S-2.5-H1

## Lab Sample ID: 570-73066-1

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 Cleanup

## Client Sample ID: S-5-H1

## Lab Sample ID: 570-73066-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	900		53	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1300		53	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-H1

## Lab Sample ID: 570-73066-3

Analyte	Result	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: 570-73066-4

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: 570-73066-5

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: 570-73066-6

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 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: 570-73066-7

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: 570-73066-8

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 Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-73066-1

## Client Sample ID: S-2.5-J1

## Lab Sample ID: 570-73066-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	2100		58	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	5700		58	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-J1

## Lab Sample ID: 570-73066-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	580		100	mg/Kg	500	✳	NWTPH-Gx	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 Sample ID: 570-73066-11

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 Sample ID: 570-73066-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	970		47	mg/Kg	200	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	15000		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-5-K1

## Lab Sample ID: 570-73066-13

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 Cleanup
TPH as Motor Oil Range	110		6.0	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-K1

## Lab Sample ID: 570-73066-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.2		0.45	mg/Kg	1	✳	NWTPH-Gx	Total/NA

## Client Sample ID: S-2.5-L2

## Lab Sample ID: 570-73066-15

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 Cleanup

## Client Sample ID: S-5-L2

## Lab Sample ID: 570-73066-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-73066-1

## Client Sample ID: S-5-L2 (Continued)

Lab Sample ID: 570-73066-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	8200		54	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	8200		54	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-L2

Lab Sample ID: 570-73066-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Motor Oil Range	12		6.2	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-M1

Lab Sample ID: 570-73066-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.0		0.21	mg/Kg	1	✳	NWTPH-Gx	Total/NA
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: 570-73066-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2000		600	mg/Kg	2500	✳	NWTPH-Gx	Total/NA
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	Silica Gel Cleanup

## Client Sample ID: S-7.5-M1

Lab Sample ID: 570-73066-20

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: 570-73066-21

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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-73066-1

## Client Sample ID: S-5-M3 (Continued)

## Lab Sample ID: 570-73066-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range - DL	2600		56	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-M3

## Lab Sample ID: 570-73066-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	16		0.74	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	240		23	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	280		23	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-M3

## Lab Sample ID: 570-73066-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	20		0.77	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	930		15	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1100		15	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-N4

## Lab Sample ID: 570-73066-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2200		450	mg/Kg	2000	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	7700		44	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	410		44	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-N4

## Lab Sample ID: 570-73066-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1600		47	mg/Kg	200	✳	NWTPH-Gx	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

## Client Sample ID: S-7.5-N4

## Lab Sample ID: 570-73066-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	20		7.8	mg/Kg	20	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range - RA	360		10	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range - RA	190		10	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-N4

## Lab Sample ID: 570-73066-30

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1.3		0.50	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Diesel Range	460		34	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	980		34	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-73066-1

**Client Sample ID: S-2.5-H1**

**Lab Sample ID: 570-73066-1**

Date Collected: 10/13/21 14:05

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)	ND		0.28	mg/Kg	☼	10/19/21 13:20	10/19/21 19:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		50 - 150			10/19/21 13:20	10/19/21 19:57	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		25	mg/Kg	☼	10/27/21 14:52	10/28/21 03:15	5
<b>TPH as Motor Oil Range</b>	<b>160</b>		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

**Client Sample ID: S-5-H1**

**Lab Sample ID: 570-73066-2**

Date Collected: 10/13/21 14:10

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)	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-Bromofluorobenzene (Surr)	102		50 - 150			10/19/21 13:20	10/19/21 20:21	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	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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		50 - 150			10/27/21 14:52	10/28/21 03:35	10

**Client Sample ID: S-7.5-H1**

**Lab Sample ID: 570-73066-3**

Date Collected: 10/13/21 14:15

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)	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	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	360		10	mg/Kg	☼	10/27/21 14:52	10/28/21 03:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			10/27/21 14:52	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	☼	10/27/21 14:52	10/28/21 17:05	10

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# Client Sample Results

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

Job ID: 570-73066-1

## Client Sample ID: S-7.5-H1

Date Collected: 10/13/21 14:15

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	120		50 - 150	10/27/21 14:52	10/28/21 17:05	10

## Client Sample ID: S-10-H1

Date Collected: 10/13/21 14:20

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-4

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		0.77	mg/Kg	✧	10/19/21 13:20	10/19/21 20:45	1
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		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		
<i>n</i> -Octacosane (Surr)	104		50 - 150	10/27/21 14:52	10/28/21 04:17	1		

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.20	mg/Kg	✧	10/19/21 13:20	10/19/21 21:10	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	102		50 - 150	10/19/21 13:20	10/19/21 21:10	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		5.5	mg/Kg	✧	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>n</i> -Octacosane (Surr)	103		50 - 150	10/27/21 14:52	10/28/21 04:37	1		

## Client Sample ID: S-5-I1

Date Collected: 10/13/21 14:30

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-6

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)	95		12	mg/Kg	✧	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		

# Client Sample Results

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

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 - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	5700		28	mg/Kg	☼	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
<i>n</i> -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)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	13		0.61	mg/Kg	☼	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	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	360		22	mg/Kg	☼	10/27/21 14:52	10/28/21 05:16	1
TPH as Motor Oil Range	ND		22	mg/Kg	☼	10/27/21 14:52	10/28/21 05:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	107		50 - 150			10/27/21 14:52	10/28/21 05:16	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.74	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		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
<i>n</i> -Octacosane (Surr)	103		50 - 150			10/27/21 14:52	10/28/21 05:36	1

## 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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	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

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# Client Sample Results

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

Job ID: 570-73066-1

**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

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

**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	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)	136		50 - 150	10/27/21 19:30	10/28/21 08:38	10

**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 - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	580		100	mg/Kg	☆	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6200		60	mg/Kg	☆	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		50 - 150	10/27/21 19:30	10/28/21 09:38	10

**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 - Northwest - Volatile Petroleum 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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150	10/19/21 13:20	10/21/21 03:53	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	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 Results

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

Job ID: 570-73066-1

## Client Sample ID: S-2.5-K1

Date Collected: 10/13/21 15:00

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-12

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)	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

### 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		56	mg/Kg	☼	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

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-13

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)	620		50	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6200		60	mg/Kg	☼	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

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-14

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)	1.2		0.45	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		8.2	mg/Kg	☼	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

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-73066-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
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			10/19/21 13:20	10/26/21 16:10	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	5400		57	mg/Kg	☼	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

Date Collected: 10/13/21 15:20

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)	920		110	mg/Kg	☼	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

### 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	8200		54	mg/Kg	☼	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	Qualifier	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

Date Collected: 10/13/21 15:25

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)	ND		0.21	mg/Kg	☼	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 - 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	☼	10/27/21 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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94		50 - 150			10/27/21 19:30	10/28/21 11:56	1

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# Client Sample Results

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

Job ID: 570-73066-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	4.0		0.21	mg/Kg	☼	10/19/21 13:20	10/20/21 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150	10/19/21 13:20	10/20/21 00:47	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		29	mg/Kg	☼	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

Date Collected: 10/13/21 15:35

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-19

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)	2000		600	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4200		62	mg/Kg	☼	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

## Client Sample ID: S-7.5-M1

Date Collected: 10/13/21 15:40

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-20

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)	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.7	mg/Kg	☼	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 Sample Results

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

Job ID: 570-73066-1

## 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 - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ug/L			10/19/21 23:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56		50 - 150				10/19/21 23:59	1

## 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

### 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	☼	10/19/21 13:20	10/21/21 12:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150			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		54	mg/Kg	☼	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	1

## Client Sample ID: S-2.5-M3

Date Collected: 10/14/21 08:40

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-23

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)	2700		530	mg/Kg	☼	10/19/21 13:20	10/21/21 14:47	2500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150			10/19/21 13:20	10/21/21 14:47	2500

### 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	830		29	mg/Kg	☼	10/27/21 19:30	10/28/21 13:34	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		50 - 150			10/27/21 19:30	10/28/21 13:34	5

### 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	16000		290	mg/Kg	☼	10/27/21 19:30	10/28/21 15:19	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	130		50 - 150			10/27/21 19:30	10/28/21 15:19	50

# Client Sample Results

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

Job ID: 570-73066-1

## Client Sample ID: S-5-M3

Date Collected: 10/14/21 08:45

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-24

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)	390		91	mg/Kg	☼	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

### 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	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	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	2600		56	mg/Kg	☼	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

## Client Sample ID: S-7.5-M3

Date Collected: 10/14/21 08:50

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-25

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)	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

### 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	240		23	mg/Kg	☼	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	Qualifier	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

Date Collected: 10/14/21 08:55

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-26

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)	20		0.77	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	930		15	mg/Kg	☼	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 Sample Results

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

Job ID: 570-73066-1

## 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
<i>n</i> -Octacosane (Surr)	103		50 - 150	10/27/21 19:30	10/28/21 14:32	1

## 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	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2200		450	mg/Kg	☼	10/19/21 13:20	10/21/21 15:10	2000
Surrogate	%Recovery	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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	7700		44	mg/Kg	☼	10/27/21 19:30	10/28/21 14:52	5
TPH as Motor Oil Range	410		44	mg/Kg	☼	10/27/21 19:30	10/28/21 14:52	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>n</i> -Octacosane (Surr)	101		50 - 150	10/27/21 19:30	10/28/21 14:52	5		

## Client Sample ID: S-5-N4

Date Collected: 10/14/21 09:09

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-28

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		47	mg/Kg	☼	10/19/21 13:20	10/21/21 10:16	200
Surrogate	%Recovery	Qualifier	Limits	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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	51		5.5	mg/Kg	☼	10/27/21 19:30	10/28/21 15:11	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>n</i> -Octacosane (Surr)	101		50 - 150	10/27/21 19:30	10/28/21 15:11	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	4400		55	mg/Kg	☼	10/27/21 19:30	10/28/21 18:06	10
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>n</i> -Octacosane (Surr)	98		50 - 150	10/27/21 19:30	10/28/21 18:06	10		

## Client Sample ID: S-7.5-N4

Date Collected: 10/14/21 09:10

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-29

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)	20		7.8	mg/Kg	☼	10/19/21 13:20	10/21/21 09:05	20

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# Client Sample Results

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

Job ID: 570-73066-1

## Client Sample ID: S-7.5-N4

Date Collected: 10/14/21 09:10

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-29

Matrix: Solid

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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - RA

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	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

## Client Sample ID: S-10-N4

Date Collected: 10/14/21 09:15

Date Received: 10/15/21 08:19

## Lab Sample ID: 570-73066-30

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)	1.3		0.50	mg/Kg	☆	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	73		50 - 150	10/27/21 19:28	10/28/21 11:10	5



# Surrogate Summary

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

Job ID: 570-73066-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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 570-188035/36	Lab Control Sample Dup	108
LCSD 570-188043/34	Lab Control Sample Dup	121
LCSD 570-189371/4	Lab Control Sample Dup	105
MB 570-187627/5	Method Blank	97
MB 570-188035/37	Method Blank	97
MB 570-188035/38	Method Blank	95
MB 570-188043/36	Method Blank	95
MB 570-189371/5	Method Blank	79
MB 570-189371/6	Method Blank	79

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

# Surrogate Summary

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

Job ID: 570-73066-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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-Bromofluorobenzene (Surr)

## 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)
570-73066-1	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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73066-1

**Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)**

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (50-150)
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
LCS 570-189781/2-A	Lab Control Sample	106
LCS 570-189781/6-A	Lab Control Sample	105
LCS 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
LCS 570-189871/6-A	Lab Control Sample	100
LCSD 570-189781/3-A	Lab Control Sample Dup	102
LCSD 570-189781/7-A	Lab Control Sample Dup	105
LCSD 570-189870/3-A	Lab Control Sample Dup	112
LCSD 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
MB 570-189871/1-A	Method Blank	111

### Surrogate Legend

OTCSN = n-Octacosane (Surr)

# QC Sample Results

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**  
**Matrix: Solid**  
**Analysis Batch: 187627**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/19/21 17:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150				10/19/21 17:02	1

**Lab Sample ID: LCS 570-187627/3**  
**Matrix: Solid**  
**Analysis Batch: 187627**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.155		mg/Kg		101	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	111		50 - 150				

**Lab Sample ID: LCSD 570-187627/4**  
**Matrix: Solid**  
**Analysis Batch: 187627**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.351		mg/Kg		111	77 - 128	9	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		50 - 150						

**Lab Sample ID: MB 570-187662/5**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ug/L			10/19/21 18:52	1
Surrogate	MB %Recovery	MB 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**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2130	2099		ug/L		99	76 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	91		50 - 150				

# QC Sample Results

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

Job ID: 570-73066-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-187662/4**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2130	2111		ug/L		99	76 - 128	1	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	87		50 - 150						

**Lab Sample ID: 570-72969-D-3 MS**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	ND		2130	2070		ug/L		97	69 - 132
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	89		50 - 150						

**Lab Sample ID: 570-72969-D-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2130	2120		ug/L		100	69 - 132	2	15
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	91		50 - 150								

**Lab Sample ID: MB 570-188035/37**  
**Matrix: Solid**  
**Analysis Batch: 188035**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/21/21 02:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
4-Bromofluorobenzene (Surr)	97		50 - 150		10/21/21 02:40	1		

**Lab Sample ID: MB 570-188035/38**  
**Matrix: Solid**  
**Analysis Batch: 188035**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/21/21 03:04	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
4-Bromofluorobenzene (Surr)	95		50 - 150		10/21/21 03:04	20		

# QC Sample Results

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

Job ID: 570-73066-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-188035/35**  
**Matrix: Solid**  
**Analysis Batch: 188035**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.347		mg/Kg		110	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	108		50 - 150				

**Lab Sample ID: LCSD 570-188035/36**  
**Matrix: Solid**  
**Analysis Batch: 188035**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.349		mg/Kg		110	77 - 128	0	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	108		50 - 150						

**Lab Sample ID: MB 570-188043/36**  
**Matrix: Solid**  
**Analysis Batch: 188043**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/21/21 01:16	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	95		50 - 150				10/21/21 01:16	20

**Lab Sample ID: LCS 570-188043/33**  
**Matrix: Solid**  
**Analysis Batch: 188043**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.023		mg/Kg		95	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	125		50 - 150				

**Lab Sample ID: LCSD 570-188043/34**  
**Matrix: Solid**  
**Analysis Batch: 188043**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.003		mg/Kg		94	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	121		50 - 150						

# QC Sample Results

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

Job ID: 570-73066-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-189371/5**  
**Matrix: Solid**  
**Analysis Batch: 189371**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/26/21 14:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150				10/26/21 14:12	1

**Lab Sample ID: MB 570-189371/6**  
**Matrix: Solid**  
**Analysis Batch: 189371**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/26/21 14:36	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150				10/26/21 14:36	20

**Lab Sample ID: LCS 570-189371/3**  
**Matrix: Solid**  
**Analysis Batch: 189371**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.003		mg/Kg		94	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	112		50 - 150				

**Lab Sample ID: LCSD 570-189371/4**  
**Matrix: Solid**  
**Analysis Batch: 189371**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.001		mg/Kg		94	77 - 128	0	16
Surrogate	LCSD %Recovery	LCSD Qualifier	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**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		10/27/21 14:52	10/27/21 19:21	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		10/27/21 14:52	10/27/21 19:21	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		50 - 150			10/27/21 14:52	10/27/21 19:21	1

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# QC Sample Results

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

Job ID: 570-73066-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-189781/2-A**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	452.5		mg/Kg		113	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	407.1		mg/Kg		102	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	105		50 - 150				

**Lab Sample ID: LCSD 570-189781/3-A**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	432.1		mg/Kg		108	76 - 126	5	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	102		50 - 150						

**Lab Sample ID: LCSD 570-189781/7-A**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	406.8		mg/Kg		102	71 - 139	0	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	105		50 - 150						

**Lab Sample ID: 570-73067-A-23-A MS**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Matrix Spike**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	140		499	607.5		mg/Kg	☼	94	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	98		50 - 150						



# QC Sample Results

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

Job ID: 570-73066-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-73067-A-23-B MSD**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	140		538	662.6		mg/Kg	☼	97	37 - 175	9	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	106		50 - 150								

**Lab Sample ID: 570-73067-A-23-C MS**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Matrix Spike**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	200		489	582.0		mg/Kg	☼	79	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	101		50 - 150								

**Lab Sample ID: 570-73067-A-23-D MSD**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	200		478	633.0		mg/Kg	☼	91	71 - 174	8	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	100		50 - 150								

**Lab Sample ID: MB 570-189870/1-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	MB Result	MB 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	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>			
<i>n-Octacosane (Surr)</i>	108		50 - 150	10/27/21 19:28	10/27/21 21:19	1			

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	433.7		mg/Kg		108	76 - 126		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	112		50 - 150						

# QC Sample Results

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

Job ID: 570-73066-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-189870/6-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	443.1		mg/Kg		111	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	112		50 - 150				

**Lab Sample ID: LCSD 570-189870/3-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	450.8		mg/Kg		113	76 - 126	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	112		50 - 150						

**Lab Sample ID: LCSD 570-189870/7-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	426.2		mg/Kg		107	71 - 139	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	114		50 - 150						

**Lab Sample ID: 570-73077-A-2-A MS**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Matrix Spike**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	ND		492	541.4		mg/Kg	⊛	110	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	109		50 - 150						

**Lab Sample ID: 570-73077-A-2-B MSD**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	ND		480	542.9		mg/Kg	⊛	113	37 - 175	0	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	111		50 - 150								

# QC Sample Results

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

Job ID: 570-73066-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-73077-A-2-C MS**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Matrix Spike**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	ND		496	516.7		mg/Kg	☼	104	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	114		50 - 150						

**Lab Sample ID: 570-73077-A-2-D MSD**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	ND		493	535.8		mg/Kg	☼	109	71 - 174	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	110		50 - 150								

**Lab Sample ID: MB 570-189871/1-A**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189871**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		10/27/21 19:30	10/27/21 22:16	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		10/27/21 19:30	10/27/21 22:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>n-Octacosane (Surr)</i>	111		50 - 150			10/27/21 19:30	10/27/21 22:16	1

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	458.3		mg/Kg		115	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	102		50 - 150				

**Lab Sample ID: LCS 570-189871/6-A**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189871**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	398.7		mg/Kg		100	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	100		50 - 150				

# QC Sample Results

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

Job ID: 570-73066-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-189871/3-A**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189871**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	433.4		mg/Kg		108	76 - 126	6	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	100		50 - 150						

**Lab Sample ID: LCSD 570-189871/7-A**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189871**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	380.7		mg/Kg		95	71 - 139	5	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	100		50 - 150						

**Lab Sample ID: 570-73066-11 MS**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: S-7.5-J1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	19		518	543.7		mg/Kg	⊛	101	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	102		50 - 150								

**Lab Sample ID: 570-73066-11 MS**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: S-7.5-J1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	ND		530	439.1		mg/Kg	⊛	80	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	91		50 - 150								

**Lab Sample ID: 570-73066-11 MSD**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: S-7.5-J1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	19		506	507.8		mg/Kg	⊛	97	37 - 175	7	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	96		50 - 150								

# QC Sample Results

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

Job ID: 570-73066-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-73066-11 MSD**

**Matrix: Solid**

**Analysis Batch: 189859**

**Client Sample ID: S-7.5-J1**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 189871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	ND		478	374.5		mg/Kg	*	76	71 - 174	16	20
<b>Surrogate</b>		<b>MSD</b>									
<i>n</i> -Octacosane (Surr)		88									50 - 150

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# QC Association Summary

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

Job ID: 570-73066-1

## 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-I1	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	

# QC Association Summary

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

Job ID: 570-73066-1

## 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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73066-1	S-2.5-H1	Silica Gel Cleanup	Solid	3550C SGC	
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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# QC Association Summary

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

Job ID: 570-73066-1

## 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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# QC Association Summary

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

Job ID: 570-73066-1

## 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  
 Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73066-1

## GC Semi VOA (Continued)

### Prep Batch: 189871 (Continued)

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	
570-73066-11 MSD	S-7.5-J1	Silica Gel Cleanup	Solid	3550C SGC	

# Lab Chronicle

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

Job ID: 570-73066-1

## Client Sample ID: S-2.5-H1

Lab Sample ID: 570-73066-1

Date Collected: 10/13/21 14:05

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	187627	10/19/21 19:57	P1R	ECL 2
Instrument ID: GC53										
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
Instrument ID: GC50										

## Client Sample ID: S-5-H1

Lab Sample ID: 570-73066-2

Date Collected: 10/13/21 14:10

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.845 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-7.5-H1

Lab Sample ID: 570-73066-3

Date Collected: 10/13/21 14:15

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.025 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 15:23	P1R	ECL 2
Instrument ID: GC56										
Silica Gel Cleanup	Prep	3550C SGC			5.59 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 03:56	A1W	ECL 1
Instrument ID: GC50										
Silica Gel Cleanup	Prep	3550C SGC	DL		5.59 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			189859	10/28/21 17:05	A1W	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-10-H1

Lab Sample ID: 570-73066-4

Date Collected: 10/13/21 14:20

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.075 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 20:45	P1R	ECL 2
Instrument ID: GC53										
Silica Gel Cleanup	Prep	3550C SGC			6.21 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 04:17	A1W	ECL 1
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-73066-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC53		1	5 g	5 mL	187627	10/19/21 21:10	P1R	ECL 2
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 Instrument ID: GC50		1			189859	10/28/21 04:37	A1W	ECL 1

**Client Sample ID: S-5-I1**  
**Date Collected: 10/13/21 14:30**  
**Date Received: 10/15/21 08:19**

**Lab Sample ID: 570-73066-6**  
**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			6.162 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		50	5 mL	5 mL	189371	10/26/21 15:47	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.21 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		5			189859	10/28/21 04:56	A1W	ECL 1

**Client Sample ID: S-7.5-I1**  
**Date Collected: 10/13/21 14:35**  
**Date Received: 10/15/21 08:19**

**Lab Sample ID: 570-73066-7**  
**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			3.785 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		1	5 g	5 mL	187627	10/19/21 21:34	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			4.21 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		1			189859	10/28/21 05:16	A1W	ECL 1

**Client Sample ID: S-10-I1**  
**Date Collected: 10/13/21 14:40**  
**Date Received: 10/15/21 08:19**

**Lab Sample ID: 570-73066-8**  
**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			4.682 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		1	5 g	5 mL	187627	10/19/21 21:58	P1R	ECL 2
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 Instrument ID: GC50		1			189859	10/28/21 05:36	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-73066-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		10			189859	10/28/21 08:38	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC1		500	5 mL	5 mL	188043	10/21/21 13:59	A9VE	ECL 2
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 Instrument ID: GC50		10			189859	10/28/21 09:38	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.672 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		1	5 g	5 mL	188035	10/21/21 03:53	A9VE	ECL 2
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 Instrument ID: GC50		1			189859	10/28/21 09:58	A1W	ECL 1

## Client Sample ID: S-2.5-K1

## Lab Sample ID: 570-73066-12

Date Collected: 10/13/21 15:00

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC53		200	5 mL	5 mL	188035	10/21/21 06:41	A9VE	ECL 2
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 Instrument ID: GC50		10			189859	10/28/21 10:18	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-73066-1

## Client Sample ID: S-5-K1

## Lab Sample ID: 570-73066-13

Date Collected: 10/13/21 15:05

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		250	5 mL	5 mL	188035	10/21/21 07:05	A9VE	ECL 2
Instrument ID: GC53										
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189785	10/28/21 14:59	N1A	ECL 1
Instrument ID: GC48										
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 10:37	A1W	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-7.5-K1

## Lab Sample ID: 570-73066-14

Date Collected: 10/13/21 15:10

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	187627	10/19/21 22:47	P1R	ECL 2
Instrument ID: GC53										
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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.769 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-5-L2

## Lab Sample ID: 570-73066-16

Date Collected: 10/13/21 15:20

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.992 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	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 11:36	A1W	ECL 1
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-73066-1

## Client Sample ID: S-7.5-L2

Lab Sample ID: 570-73066-17

Date Collected: 10/13/21 15:25

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		1	5 g	5 mL	189371	10/26/21 15:00	P1R	ECL 2
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 Instrument ID: GC50		1			189859	10/28/21 11:56	A1W	ECL 1

## Client Sample ID: S-2.5-M1

Lab Sample ID: 570-73066-18

Date Collected: 10/13/21 15:30

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC53		1	5 g	5 mL	187627	10/20/21 00:47	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.91 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		5			189859	10/28/21 12:15	A1W	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC1		2500	5 mL	5 mL	188043	10/21/21 14:23	A9VE	ECL 2
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 Instrument ID: GC50		5			189859	10/28/21 12:35	A1W	ECL 1

## Client Sample ID: S-7.5-M1

Lab Sample ID: 570-73066-20

Date Collected: 10/13/21 15:40

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC53		20	5 mL	5 mL	188035	10/21/21 05:53	A9VE	ECL 2
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 Instrument ID: GC50		1			189859	10/28/21 12:55	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-73066-1

## Client Sample ID: Trip Blank

Lab Sample ID: 570-73066-21

Date Collected: 10/14/21 00:00

Matrix: Water

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/19/21 23:59	P1R	ECL 2
Instrument ID: GC25										

## Client Sample ID: S-15-B9A

Lab Sample ID: 570-73066-22

Date Collected: 10/14/21 07:55

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	188035	10/21/21 12:37	A9VE	ECL 2
Instrument ID: GC53										
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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-5-M3

Lab Sample ID: 570-73066-24

Date Collected: 10/14/21 08:45

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	188043	10/21/21 13:35	A9VE	ECL 2
Instrument ID: GC1										
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	NWTPH-Dx	DL	10			189785	10/28/21 15:40	N1A	ECL 1
Instrument ID: GC48										
Silica Gel Cleanup	Prep	3550C SGC			10.22 g	10 mL	189871	10/27/21 19:30	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 13:53	A1W	ECL 1
Instrument ID: GC50										



# Lab Chronicle

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

Job ID: 570-73066-1

## Client Sample ID: S-7.5-M3

## Lab Sample ID: 570-73066-25

Date Collected: 10/14/21 08:50

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			189859	10/28/21 14:13	A1W	ECL 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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	NWTPH-Dx Instrument ID: GC50		1			189859	10/28/21 14:32	A1W	ECL 1

## Client Sample ID: S-2.5-N4

## Lab Sample ID: 570-73066-27

Date Collected: 10/14/21 09:00

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC1		2000	5 mL	5 mL	188043	10/21/21 15:10	A9VE	ECL 2
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 Instrument ID: GC50		5			189859	10/28/21 14:52	A1W	ECL 1

## Client Sample ID: S-5-N4

## Lab Sample ID: 570-73066-28

Date Collected: 10/14/21 09:09

Matrix: Solid

Date Received: 10/15/21 08:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC53		200	5 mL	5 mL	188035	10/21/21 10:16	A9VE	ECL 2
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 Instrument ID: GC50		1			189859	10/28/21 15:11	A1W	ECL 1
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 Instrument ID: GC50	DL	10			189859	10/28/21 18:06	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-73066-1

**Client Sample ID: S-7.5-N4**  
**Date Collected: 10/14/21 09:10**  
**Date Received: 10/15/21 08:19**

**Lab Sample ID: 570-73066-29**  
**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			5.073 g	5 mL	187611	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		20	5 mL	5 mL	188035	10/21/21 09:05	A9VE	ECL 2
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 Instrument ID: GC50	RA	1			189859	10/28/21 18:25	A1W	ECL 1

**Client Sample ID: S-10-N4**  
**Date Collected: 10/14/21 09:15**  
**Date Received: 10/15/21 08:19**

**Lab Sample ID: 570-73066-30**  
**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			3.401 g	5 g	187610	10/19/21 13:20	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		1	5 g	5 mL	187627	10/20/21 02:24	P1R	ECL 2
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 Instrument ID: GC48		5			189785	10/28/21 11:10	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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73066-1

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-18	10-12-22

1

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# Method Summary

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

Job ID: 570-73066-1

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



7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
Calscience  
TEL: (714) 895-5494 . FAX: (714) 894-7501

**Site Name**  
Everett Bulk Plant  
*Provide MRN for retail or AFE for major projects*  
**Retail Project (MRN)**  
*Major Project (AFE)*  
**Project Name**  
ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE: 10/14/2021  
PAGE: 1 OF 2

ExxonMobil Engr. Jennifer Sedlachek

LABORATORY CLIENT:  
**Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855 FAX: N/A robert.thompson@cardno.com

TURNAROUND TIME:  24 HR  48 HR  72 HR  10 DAYS  
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY):  SAME DAY  ARCHIVE SAMPLES UNTIL / /

SPECIAL INSTRUCTIONS:  
 RWQCB REPORTING

GLOBAL ID # COELT LOG CODE: P O 0314476040, Agreement# A2604415

PROJECT CONTACT: Robert Thompson  
SAMPLER(S): Paul Prevou, Cameron Penner-Ash, John Considine

TEMPERATURE: °C

**REQUESTED ANALYSIS**



570-73066 Chain of Custody

LAB. ANALYSIS	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT.	MAT. RIX	Perform MSMSD	NWTPH-GX TPH as Gasoline	NWTPH-DX TPH as Diesel and Motor Oil
			DATE	TIME					
1	J-2.5-H1	J-2.5-H1	10/13/2021	1405	4	S	X	X	X
2	J-5-H1	J-5-H1	10/13/2021	1410	4	S	X	X	X
3	J-7.5-H1	J-7.5-H1	10/13/2021	1415	4	S	X	X	X
4	J-10-H1	J-10-H1	10/13/2021	1420	4	S	X	X	X
5	J-2.5-E1	J-2.5-E1	10/13/2021	1425	4	S	X	X	X
6	J-5-E1	J-5-E1	10/13/2021	1430	4	S	X	X	X
7	J-7.5-E1	J-7.5-E1	10/13/2021	1435	4	S	X	X	X
8	J-10-E1	J-10-E1	10/13/2021	1440	4	S	X	X	X
9	J-2.5-J1	J-2.5-J1	10/13/2021	1445	4	S	X	X	X
10	J-5-J1	J-5-J1	10/13/2021	1450	4	S	X	X	X
11	J-7.5-J1	J-7.5-J1	10/13/2021	1455	4	S	X	X	X
12	J-10-J1	J-10-J1	10/13/2021	1500	4	S	X	X	X
13	J-2.5-K1	J-2.5-K1	10/13/2021	1505	4	S	X	X	X
14	J-5-K1	J-5-K1	10/13/2021	1510	4	S	X	X	X
15	J-7.5-K1	J-7.5-K1	10/13/2021	1515	4	S	X	X	X
16	J-10-K1	J-10-K1	10/13/2021	1520	4	S	X	X	X
17	J-2.5-L2	J-2.5-L2	10/13/2021	1525	4	S	X	X	X
18	J-5-L2	J-5-L2	10/13/2021	1530	4	S	X	X	X
19	J-7.5-M1	J-7.5-M1	10/13/2021	1535	4	S	X	X	X
20	J-10-M1	J-10-M1	10/13/2021	1640	4	S	X	X	X
21	Trip Blank	Trip Blank	10/14/2021						
22	EQB4	EQB4	10/14/2021						

Relinquished by (Signature): Paul Prevou  
Relinquished by (Signature): Paul Prevou  
Relinquished by (Signature): Paul Prevou

Received by (Signature): FedEX  
Received by (Signature): FedEX  
Received by (Signature): FedEX

Date, & Time: 10/14/2021 4 15 00 PM  
Date, & Time: 10/14/2021 10:00  
Date, & Time: 10/14/2021 10:00

20/5/9 SCS





73066



570-73066 Waybill

Part # 156297-493-PRINTED BY EXP 06/22

Phone Number

Recipient's Name Please print

SHIP DATE: 14OCT21  
ACTWGT: 69.10 LB  
CAD: 698624/SSE2220  
DIMS: 24X13X13 IN  
BILL RECIPIENT

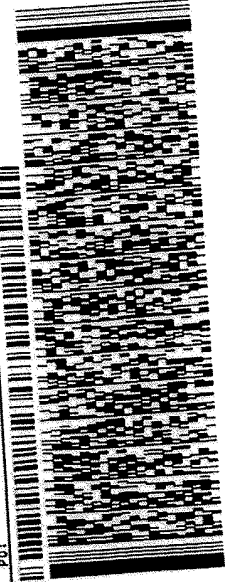
ORIGIN ID: BBEA (817) 965-6081  
PAUL PREVOU  
CARDNO  
309 S CLOVERDALE ST STE A13  
SEATTLE, WA 98108  
UNITED STATES US

TO CALSCIENCE ENVIRONMENTAL LAB

7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 895-5404 REF: (INV) P.O.



FRI - 15 OCT 4:30P  
STANDARD OVERNIGHT  
AHS  
92841  
CA-US SNA

TRK# 8158 1726 1065  
0215

92 APVA



Date: 10/14/2021

Signature: *[Signature]*

BODY SEAL



800-233-8425

COPY

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- 15

# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-73066-1

**Login Number: 73066**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Ramos, Maribel**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





## 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

*Cecile de Guia*

---

Authorized for release by:  
10/29/2021 10:51:17 AM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

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results through  
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*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  
 Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73067-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
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 09:25	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 09:35	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
570-73067-11	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 10:40	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
570-73067-26	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
570-73067-33	S-5-O1	Solid	10/14/21 12:00	10/15/21 10:10
570-73067-34	S-7.5-O1	Solid	10/14/21 12:05	10/15/21 10:10



# Definitions/Glossary

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

Job ID: 570-73067-1

## Qualifiers

### GC VOA

Qualifier	Qualifier Description
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.
α	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

# Case Narrative

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

Job ID: 570-73067-1

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## Job ID: 570-73067-1

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### 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.

#### 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.

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.

#### VOA Prep

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

# Detection Summary

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

Job ID: 570-73067-1

## Client Sample ID: S-2.5-M9

## 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		420	mg/Kg	2000	✳	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	180		5.5	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Diesel Range - DL	5700		55	mg/Kg	10	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-M9

## Lab Sample ID: 570-73067-3

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 Cleanup
TPH as Diesel Range - DL	21000		180	mg/Kg	20	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-10-M9

## 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-M9

## 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 Cleanup

## Client Sample ID: S-17.5-M9

## Lab Sample ID: 570-73067-7

Analyte	Result	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-73067-1

## Client Sample ID: S-2.5-L8

## Lab Sample ID: 570-73067-8

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: 570-73067-9

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-L8

## Lab Sample ID: 570-73067-10

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

## Lab Sample ID: 570-73067-11

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: 570-73067-12

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-O7

## Lab Sample ID: 570-73067-13

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	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	870		83	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	3300		83	mg/Kg	10	✘	NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-73067-1

## Client Sample ID: S-7.5-O7

## Lab Sample ID: 570-73067-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2100		200	mg/Kg	500	✳	NWTPH-Gx	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 Sample ID: 570-73067-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	110		7.4	mg/Kg	20	✳	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-O7

## Lab Sample ID: 570-73067-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	10		1.6	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	100		53	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-P6

## Lab Sample ID: 570-73067-18

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 Sample ID: 570-73067-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2.0		0.31	mg/Kg	1	✳	NWTPH-Gx	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 Sample ID: 570-73067-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	6.0		2.0	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	100		59	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: Trip Blank

## Lab Sample ID: 570-73067-21

No Detections.

## Client Sample ID: EQB1

## Lab Sample ID: 570-73067-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	150		96	ug/L	1		NWTPH-Dx	Silica Gel Cleanup

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Detection Summary

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

Job ID: 570-73067-1

## 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)	3.6		0.35	mg/Kg	1	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	99		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-O3

## Lab Sample ID: 570-73067-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	1500		68	mg/Kg	250	✘	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	130		7.7	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Diesel Range - DL	3200		77	mg/Kg	10	✘	NWTPH-Dx	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	1	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	6.1		6.0	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	13		6.0	mg/Kg	1	✘	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-2.5-P4

## Lab Sample ID: 570-73067-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	250		36	mg/Kg	200	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	320		27	mg/Kg	5	✘	NWTPH-Dx	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

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	810		120	mg/Kg	500	✘	NWTPH-Gx	Total/NA
TPH as Diesel Range	830		5.8	mg/Kg	1	✘	NWTPH-Dx	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	Qualifier	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-73067-1

## Client Sample ID: S-2.5-P2 (Continued)

## Lab Sample ID: 570-73067-29

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: 570-73067-30

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: 570-73067-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2.9		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: 570-73067-32

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: 570-73067-33

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: 570-73067-34

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.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-73067-1

## Client Sample ID: S-2.5-M9

## Lab Sample ID: 570-73067-1

Date Collected: 10/14/21 09:20

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)	0.77		0.22	mg/Kg	☼	10/19/21 12:47	10/20/21 03:13	1

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	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	300		26	mg/Kg	☼	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	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

Date Collected: 10/14/21 09:25

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)	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	☼	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

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

## Lab Sample ID: 570-73067-3

Date Collected: 10/14/21 09:30

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)	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

### 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	1100		18	mg/Kg	☼	10/27/21 14:23	10/27/21 22:42	2

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-73067-1

## Client Sample ID: S-7.5-M9

Date Collected: 10/14/21 09:30

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-3

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	117		50 - 150	10/27/21 14:23	10/27/21 22:42	2

**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	21000		180	mg/Kg	☼	10/27/21 14:23	10/28/21 13:57	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	110		50 - 150	10/27/21 14:23	10/28/21 13:57	20

## 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

**Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)**

Analyte	Result	Qualifier	RL	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	1400		65	mg/Kg	☼	10/27/21 14:23	10/27/21 23:02	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	117		50 - 150	10/27/21 14:23	10/27/21 23:02	5

**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	35000		650	mg/Kg	☼	10/27/21 14:23	10/28/21 14:18	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	129		50 - 150	10/27/21 14:23	10/28/21 14:18	50

## Client Sample ID: S-12.5-M9

Date Collected: 10/14/21 09:40

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-5

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)	530		150	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	11000		110	mg/Kg	☼	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
<i>n</i> -Octacosane (Surr)	117		50 - 150	10/27/21 14:23	10/27/21 23:23	5

# Client Sample Results

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

Job ID: 570-73067-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	46		12	mg/Kg	☼	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

### 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	26		17	mg/Kg	☼	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

## Client Sample ID: S-17.5-M9

Lab Sample ID: 570-73067-7

Date Collected: 10/14/21 09:50

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)	0.97		0.22	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.8	mg/Kg	☼	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 - Northwest - Volatile Petroleum Products (GC)

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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	340		10	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		50 - 150	10/27/21 14:23	10/28/21 00:25	2

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# Client Sample Results

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

Job ID: 570-73067-1

**Client Sample ID: S-5-L8**

Date Collected: 10/14/21 10:00

Date Received: 10/15/21 10:10

**Lab Sample ID: 570-73067-9**

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)	3900		680	mg/Kg	☼	10/19/21 12:48	10/21/21 09:22	2500
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	102		50 - 150			10/19/21 12:48	10/21/21 09:22	2500

**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	1300		63	mg/Kg	☼	10/27/21 14:23	10/28/21 00:46	10
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
n-Octacosane (Surr)	123		50 - 150			10/27/21 14:23	10/28/21 00:46	10

**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	22000		130	mg/Kg	☼	10/27/21 14:23	10/28/21 14:38	20
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
n-Octacosane (Surr)	125		50 - 150			10/27/21 14:23	10/28/21 14:38	20

**Client Sample ID: S-7.5-L8**

Date Collected: 10/14/21 10:05

Date Received: 10/15/21 10:10

**Lab Sample ID: 570-73067-10**

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)	1900		140	mg/Kg	☼	10/19/21 12:48	10/26/21 22:32	250
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	84		50 - 150			10/19/21 12:48	10/26/21 22:32	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	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
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
n-Octacosane (Surr)	114		50 - 150			10/27/21 14:23	10/28/21 01:07	5

**Client Sample ID: S-10-L8**

Date Collected: 10/14/21 10:10

Date Received: 10/15/21 10:10

**Lab Sample ID: 570-73067-11**

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)	320		9.4	mg/Kg	☼	10/19/21 12:48	10/19/21 18:41	20
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	171	S1+	50 - 150			10/19/21 12:48	10/19/21 18:41	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	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

# Client Sample Results

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

Job ID: 570-73067-1

## Client Sample ID: S-10-L8

Date Collected: 10/14/21 10:10

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-11

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>n</i> -Octacosane (Surr)	116		50 - 150	10/27/21 14:23	10/28/21 02:08	5

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	12		1.9	mg/Kg	✱	10/19/21 12:47	10/20/21 04:49	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	82		50 - 150	10/19/21 12:47	10/20/21 04:49	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		49	mg/Kg	✱	10/27/21 14:23	10/28/21 02:30	1
TPH as Motor 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		
<i>n</i> -Octacosane (Surr)	125		50 - 150	10/27/21 14:23	10/28/21 02:30	1		

## Client Sample ID: S-2.5-O7

Date Collected: 10/14/21 10:30

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-13

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)	520		130	mg/Kg	✱	10/19/21 12:48	10/21/21 07:46	500
Surrogate	%Recovery	Qualifier	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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3800		52	mg/Kg	✱	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		
<i>n</i> -Octacosane (Surr)	115		50 - 150	10/27/21 14:23	10/28/21 02:50	5		

## Client Sample ID: S-5-O7

Date Collected: 10/14/21 10:35

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-14

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)	240		24	mg/Kg	✱	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 Results

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

Job ID: 570-73067-1

## Client Sample ID: S-5-O7

Date Collected: 10/14/21 10:35

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-14

Matrix: Solid

### 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	870		83	mg/Kg	☼	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

Date Collected: 10/14/21 10:40

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-15

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)	2100		200	mg/Kg	☼	10/19/21 12:48	10/21/21 02:04	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		50 - 150			10/19/21 12:48	10/21/21 02:04	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	20000		92	mg/Kg	☼	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

Date Collected: 10/14/21 10:45

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-16

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)	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: 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		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	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125		50 - 150			10/27/21 14:23	10/28/21 03:52	10

## 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

### 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	☼	10/19/21 12:47	10/20/21 14:24	1

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# Client Sample Results

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

Job ID: 570-73067-1

## 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

**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		53	mg/Kg	☆	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

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-18

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)	2200		150	mg/Kg	☆	10/19/21 12:48	10/21/21 01:40	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131		50 - 150	10/19/21 12:48	10/21/21 01:40	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	1400		98	mg/Kg	☆	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

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-19

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)	2.0		0.31	mg/Kg	☆	10/19/21 12:47	10/20/21 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		50 - 150	10/19/21 12:47	10/20/21 13:12	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	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

# Client Sample Results

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

Job ID: 570-73067-1

## Client Sample ID: S-12.5-P6

Lab Sample ID: 570-73067-20

Date Collected: 10/14/21 11:05

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)	6.0		2.0	mg/Kg	☼	10/19/21 12:47	10/20/21 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150	10/19/21 12:47	10/20/21 14:47	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		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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150	10/27/21 14:23	10/28/21 05:16	1

## 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

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 00:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56		50 - 150		10/20/21 00:57	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	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

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)	3.6		0.35	mg/Kg	☼	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	1

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# Client Sample Results

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

Job ID: 570-73067-1

## Client Sample ID: S-2.5-O3

Lab Sample ID: 570-73067-23

Date Collected: 10/14/21 11:10

Matrix: Solid

Date Received: 10/15/21 10:10

### 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	99		6.3	mg/Kg	☼	10/27/21 14:52	10/27/21 22:36	1
TPH 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
n-Octacosane (Surr)	105		50 - 150			10/27/21 14:52	10/27/21 22:36	1

## Client Sample ID: S-5-O3

Lab Sample ID: 570-73067-24

Date Collected: 10/14/21 11:15

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)	1500		68	mg/Kg	☼	10/19/21 12:48	10/21/21 11:03	250
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	50		50 - 150			10/19/21 12:48	10/21/21 11:03	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 Motor Oil Range	130		7.7	mg/Kg	☼	10/27/21 14:52	10/27/21 22:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150			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	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	3200		77	mg/Kg	☼	10/27/21 14:52	10/28/21 16:00	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	111		50 - 150			10/27/21 14:52	10/28/21 16:00	10

## Client Sample ID: S-7.5-O3

Lab Sample ID: 570-73067-25

Date Collected: 10/14/21 11:20

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)	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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	6.1		6.0	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-73067-1

## Client Sample ID: S-2.5-P4

Lab Sample ID: 570-73067-26

Date Collected: 10/14/21 11:25

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)	250		36	mg/Kg	☼	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

### 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		27	mg/Kg	☼	10/27/21 14:52	10/27/21 23:36	5
TPH as Motor Oil Range	580		27	mg/Kg	☼	10/27/21 14:52	10/27/21 23:36	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	116		50 - 150	10/27/21 14:52	10/27/21 23:36	5

## 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 - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	810		120	mg/Kg	☼	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

### 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	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

## Client Sample ID: S-7.5-P4

Lab Sample ID: 570-73067-28

Date Collected: 10/14/21 11:35

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)	45		20	mg/Kg	☼	10/19/21 12:48	10/26/21 22:56	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56		50 - 150	10/19/21 12:48	10/26/21 22:56	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	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

# Client Sample Results

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

Job ID: 570-73067-1

## Client Sample ID: S-2.5-P2

Date Collected: 10/14/21 11:40

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-29

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)	0.23		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

### 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	310		28	mg/Kg	☼	10/27/21 14:52	10/28/21 00:35	5
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	5

## Client Sample ID: S-5-P2

Date Collected: 10/14/21 11:45

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-30

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)	1500		120	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Motor Oil Range	1600		13	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	4900		63	mg/Kg	☼	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

Date Collected: 10/14/21 11:50

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-31

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)	2.9		0.32	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	120		14	mg/Kg	☼	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 Sample Results

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

Job ID: 570-73067-1

## 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
<i>n</i> -Octacosane (Surr)	110		50 - 150	10/27/21 14:52	10/28/21 01:17	2

## Client Sample ID: S-2.5-O1

Date Collected: 10/14/21 11:55

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-32

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)	ND		0.27	mg/Kg	☼	10/19/21 12:47	10/20/21 23:03	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	100		50 - 150	10/19/21 12:47	10/20/21 23:03	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	ND		51	mg/Kg	☼	10/27/21 14:52	10/28/21 01:36	10
TPH as Motor Oil Range	170		51	mg/Kg	☼	10/27/21 14:52	10/28/21 01:36	10
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>n</i> -Octacosane (Surr)	107		50 - 150	10/27/21 14:52	10/28/21 01:36	10		

## Client Sample ID: S-5-O1

Date Collected: 10/14/21 12:00

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-33

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		0.25	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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		30	mg/Kg	☼	10/27/21 14:52	10/28/21 02:37	5
TPH as Motor Oil Range	77		30	mg/Kg	☼	10/27/21 14:52	10/28/21 02:37	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
<i>n</i> -Octacosane (Surr)	99		50 - 150	10/27/21 14:52	10/28/21 02:37	5		

## Client Sample ID: S-7.5-O1

Date Collected: 10/14/21 12:05

Date Received: 10/15/21 10:10

## Lab Sample ID: 570-73067-34

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)	3.7		0.28	mg/Kg	☼	10/19/21 12:47	10/20/21 23:51	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	77		50 - 150	10/19/21 12:47	10/20/21 23:51	1		

# Client Sample Results

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

Job ID: 570-73067-1

**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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	14		6.8	mg/Kg	☼	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
<i>n</i> -Octacosane (Surr)	107		50 - 150			10/27/21 14:52	10/28/21 02:56	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Surrogate Summary

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

Job ID: 570-73067-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (50-150)
570-73067-1	S-2.5-M9	111
570-73067-2	S-5-M9	107
570-73067-3	S-7.5-M9	90
570-73067-4	S-10-M9	98
570-73067-5	S-12.5-M9	75
570-73067-6	S-15-M9	116
570-73067-7	S-17.5-M9	78
570-73067-8	S-2.5-L8	119
570-73067-9	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-O7	115
570-73067-14	S-5-O7	72
570-73067-15	S-7.5-O7	102
570-73067-16	S-10-O7	116
570-73067-17	S-12.5-O7	83
570-73067-18	S-5-P6	131
570-73067-19	S-10-P6	109
570-73067-20	S-12.5-P6	82
570-73067-23	S-2.5-O3	108
570-73067-24	S-5-O3	50
570-73067-25	S-7.5-O3	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-O1	97
570-73067-34	S-7.5-O1	77
LCS 570-187511/6	Lab Control Sample	100
LCS 570-187627/3	Lab Control Sample	111
LCS 570-187778/3	Lab Control Sample	109
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 570-187511/7	Lab Control Sample Dup	104
LCSD 570-187627/4	Lab Control Sample Dup	107
LCSD 570-187778/4	Lab Control Sample Dup	109
LCSD 570-188035/36	Lab Control Sample Dup	108
LCSD 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



# Surrogate Summary

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

Job ID: 570-73067-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (50-150)
MB 570-189371/6	Method Blank	79

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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

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)

Lab Sample ID	Client Sample ID	OTCSN (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-O7	132
570-73067-15	S-7.5-O7	121
570-73067-16	S-10-O7	125

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# Surrogate Summary

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

Job ID: 570-73067-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Matrix: Solid

Prep Type: Silica Gel Cleanup

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (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
MB 570-189781/1-A	Method Blank	108

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Matrix: Water

Prep Type: Silica Gel Cleanup

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN (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

OTCSN = n-Octacosane (Surr)

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# QC Sample Results

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

Job ID: 570-73067-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-187511/8**  
**Matrix: Solid**  
**Analysis Batch: 187511**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/19/21 13:53	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150				10/19/21 13:53	20

**Lab Sample ID: LCS 570-187511/6**  
**Matrix: Solid**  
**Analysis Batch: 187511**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.103		mg/Kg		99	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		50 - 150				

**Lab Sample ID: LCSD 570-187511/7**  
**Matrix: Solid**  
**Analysis Batch: 187511**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.140		mg/Kg		101	77 - 128	2	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		50 - 150						

**Lab Sample ID: MB 570-187627/5**  
**Matrix: Solid**  
**Analysis Batch: 187627**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/19/21 17:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 150				10/19/21 17:02	1

**Lab Sample ID: LCS 570-187627/3**  
**Matrix: Solid**  
**Analysis Batch: 187627**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.155		mg/Kg		101	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	111		50 - 150				

# QC Sample Results

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: LCSD 570-187627/4**  
**Matrix: Solid**  
**Analysis Batch: 187627**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.12	2.351		mg/Kg		111	77 - 128	9	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	107		50 - 150						

**Lab Sample ID: MB 570-187662/5**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ug/L			10/19/21 18:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
4-Bromofluorobenzene (Surr)	56		50 - 150		10/19/21 18:52	1		

**Lab Sample ID: LCS 570-187662/3**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2130	2099		ug/L		99	76 - 128		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	91		50 - 150						

**Lab Sample ID: LCSD 570-187662/4**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2130	2111		ug/L		99	76 - 128	1	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	87		50 - 150						

**Lab Sample ID: 570-72969-D-3 MS**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline (C4-C13)	ND		2130	2070		ug/L		97	69 - 132		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	89		50 - 150								

# QC Sample Results

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: 570-72969-D-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2130	2120		ug/L		100	69 - 132	2	15
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	91		50 - 150								

**Lab Sample ID: MB 570-187778/5**  
**Matrix: Solid**  
**Analysis Batch: 187778**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/20/21 11:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
4-Bromofluorobenzene (Surr)	93		50 - 150		10/20/21 11:07	1		

**Lab Sample ID: LCS 570-187778/3**  
**Matrix: Solid**  
**Analysis Batch: 187778**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.148		mg/Kg		101	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	109		50 - 150				

**Lab Sample ID: LCSD 570-187778/4**  
**Matrix: Solid**  
**Analysis Batch: 187778**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.220		mg/Kg		105	77 - 128	3	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	109		50 - 150						

**Lab Sample ID: MB 570-188035/38**  
**Matrix: Solid**  
**Analysis Batch: 188035**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/21/21 03:04	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
4-Bromofluorobenzene (Surr)	95		50 - 150		10/21/21 03:04	20		

# QC Sample Results

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**  
**Matrix: Solid**  
**Analysis Batch: 188035**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.347		mg/Kg		110	77 - 128
<b>Surrogate</b>							
	%Recovery	LCS Qualifier	LCS Limits				
4-Bromofluorobenzene (Surr)	108		50 - 150				

**Lab Sample ID: LCSD 570-188035/36**  
**Matrix: Solid**  
**Analysis Batch: 188035**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.13	2.349		mg/Kg		110	77 - 128	0	16
<b>Surrogate</b>									
	%Recovery	LCSD Qualifier	LCSD Limits						
4-Bromofluorobenzene (Surr)	108		50 - 150						

**Lab Sample ID: MB 570-188043/36**  
**Matrix: Solid**  
**Analysis Batch: 188043**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/21/21 01:16	20
<b>Surrogate</b>								
	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	95		50 - 150		10/21/21 01:16	20		

**Lab Sample ID: LCS 570-188043/33**  
**Matrix: Solid**  
**Analysis Batch: 188043**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.023		mg/Kg		95	77 - 128
<b>Surrogate</b>							
	%Recovery	LCS Qualifier	LCS Limits				
4-Bromofluorobenzene (Surr)	125		50 - 150				

**Lab Sample ID: LCSD 570-188043/34**  
**Matrix: Solid**  
**Analysis Batch: 188043**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Gasoline (C4-C13)	2.13	2.003		mg/Kg		94	77 - 128	1	16
<b>Surrogate</b>									
	%Recovery	LCSD Qualifier	LCSD Limits						
4-Bromofluorobenzene (Surr)	121		50 - 150						

# QC Sample Results

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: MB 570-189371/6**  
**Matrix: Solid**  
**Analysis Batch: 189371**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/26/21 14:36	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150				10/26/21 14:36	20

**Lab Sample ID: LCS 570-189371/3**  
**Matrix: Solid**  
**Analysis Batch: 189371**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.13	2.003		mg/Kg		94	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	112		50 - 150				

**Lab Sample ID: LCSD 570-189371/4**  
**Matrix: Solid**  
**Analysis Batch: 189371**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	2.001		mg/Kg		94	77 - 128	0	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		50 - 150						

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-188018/1-A**  
**Matrix: Water**  
**Analysis Batch: 187973**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188018**

Analyte	MB Result	MB 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	1
TPH as Motor Oil Range	ND		100	ug/L		10/20/21 16:00	10/20/21 19:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	108		50 - 150			10/20/21 16:00	10/20/21 19:31	1

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	4000	4097		ug/L		102	68 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	102		50 - 150				

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# QC Sample Results

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

Job ID: 570-73067-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-188018/4-A**  
**Matrix: Water**  
**Analysis Batch: 187973**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188018**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	4000	4333		ug/L		108	71 - 129
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	105		50 - 150				

**Lab Sample ID: LCSD 570-188018/3-A**  
**Matrix: Water**  
**Analysis Batch: 187973**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188018**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	4000	4271		ug/L		107	68 - 120	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	103		50 - 150						

**Lab Sample ID: LCSD 570-188018/5-A**  
**Matrix: Water**  
**Analysis Batch: 187973**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 188018**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	4000	4281		ug/L		107	71 - 129	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	104		50 - 150						

**Lab Sample ID: MB 570-189773/1-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189773**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		5.0	mg/Kg		10/27/21 14:23	10/27/21 18:16	1
TPH as Motor Oil Range	ND		5.0	mg/Kg		10/27/21 14:23	10/27/21 18:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>n-Octacosane (Surr)</i>	110		50 - 150			10/27/21 14:23	10/27/21 18:16	1

**Lab Sample ID: LCS 570-189773/2-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189773**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	445.5		mg/Kg		111	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	111		50 - 150				



# QC Sample Results

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

Job ID: 570-73067-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-189773/6-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189773**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	417.2		mg/Kg		104	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	110		50 - 150				

**Lab Sample ID: LCSD 570-189773/3-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189773**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	442.9		mg/Kg		111	76 - 126	1	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	109		50 - 150						

**Lab Sample ID: LCSD 570-189773/7-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189773**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	406.3		mg/Kg		102	71 - 139	3	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	105		50 - 150						

**Lab Sample ID: 570-73067-7 MS**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: S-17.5-M9**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189773**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	ND		504	561.1		mg/Kg	⊛	111	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	108		50 - 150						

**Lab Sample ID: 570-73067-7 MS**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: S-17.5-M9**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189773**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	ND		497	486.7		mg/Kg	⊛	98	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	110		50 - 150						

# QC Sample Results

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

Job ID: 570-73067-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-73067-7 MSD**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: S-17.5-M9**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189773**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	ND		493	528.9		mg/Kg	☼	107	37 - 175	6	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	106		50 - 150								

**Lab Sample ID: 570-73067-7 MSD**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: S-17.5-M9**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189773**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	ND		507	475.5		mg/Kg	☼	94	71 - 174	2	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	104		50 - 150								

**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**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TPH as Diesel Range	ND		5.0	mg/Kg		10/27/21 14:52	10/27/21 19:21	1	
TPH as Motor Oil Range	ND		5.0	mg/Kg		10/27/21 14:52	10/27/21 19:21	1	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>			
<i>n-Octacosane (Surr)</i>	108		50 - 150	10/27/21 14:52	10/27/21 19:21	1			

**Lab Sample ID: LCS 570-189781/2-A**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	452.5		mg/Kg		113	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	407.1		mg/Kg		102	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	105		50 - 150				

# QC Sample Results

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

Job ID: 570-73067-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-189781/3-A**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Diesel (C10-C28)	400	432.1		mg/Kg		108	76 - 126	5	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	102		50 - 150							

**Lab Sample ID: LCSD 570-189781/7-A**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Motor Oil (C17-C44)	400	406.8		mg/Kg		102	71 - 139	0	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	105		50 - 150							

**Lab Sample ID: 570-73067-23 MS**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: S-2.5-O3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	140		499	607.5		mg/Kg	⊛	94	37 - 175		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	98		50 - 150								

**Lab Sample ID: 570-73067-23 MS**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: S-2.5-O3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	200		489	582.0		mg/Kg	⊛	79	71 - 174		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	101		50 - 150								

**Lab Sample ID: 570-73067-23 MSD**  
**Matrix: Solid**  
**Analysis Batch: 189859**

**Client Sample ID: S-2.5-O3**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189781**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	140		538	662.6		mg/Kg	⊛	97	37 - 175	9	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	106		50 - 150								

# QC Sample Results

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

Job ID: 570-73067-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-73067-23 MSD**

**Matrix: Solid**

**Analysis Batch: 189859**

**Client Sample ID: S-2.5-O3**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 189781**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	200		478	633.0		mg/Kg	✱	91	71 - 174	8	20
<b>Surrogate</b>	<b>MSD</b>	<b>MSD</b>									
<i>n-Octacosane (Surr)</i>	<i>100</i>	<i>Qualifier</i>	<i>Limits</i>								
			50 - 150								

- 1
- 2
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- 15

# QC Association Summary

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

Job ID: 570-73067-1

## GC VOA

### Analysis Batch: 187511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-11	S-10-L8	Total/NA	Solid	NWTPH-Gx	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-O7	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-O7	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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-73067-1	S-2.5-M9	Total/NA	Solid	NWTPH-Gx	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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# QC Association Summary

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

Job ID: 570-73067-1

## 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-O7	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	

# QC Association Summary

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

Job ID: 570-73067-1

## 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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-188018/1-A	Method Blank	Silica Gel Cleanup	Water	NWTPH-Dx	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-O7	Silica Gel Cleanup	Solid	3550C SGC	

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# QC Association Summary

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

Job ID: 570-73067-1

## 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-O7	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

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# QC Association Summary

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

Job ID: 570-73067-1

## 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-O7	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-O7	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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# Lab Chronicle

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

Job ID: 570-73067-1

## Client Sample ID: S-2.5-M9

## Lab Sample ID: 570-73067-1

Date Collected: 10/14/21 09:20

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.951 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187627	10/20/21 03:13	P1R	ECL 2
Instrument ID: GC53										
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
Instrument ID: GC48										

## Client Sample ID: S-5-M9

## Lab Sample ID: 570-73067-2

Date Collected: 10/14/21 09:25

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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
Instrument 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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-7.5-M9

## Lab Sample ID: 570-73067-3

Date Collected: 10/14/21 09:30

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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
Instrument 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
Instrument 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.799 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
Instrument ID: GC1										

# Lab Chronicle

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

Job ID: 570-73067-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Dx		5			189785	10/27/21 23:02	N1A	ECL 1
Instrument ID: GC48										
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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.851 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 22:08	P1R	ECL 2
Instrument ID: GC56										
Silica Gel Cleanup	Prep	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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
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
Instrument 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
Instrument ID: GC48										

## Client Sample ID: S-17.5-M9

Lab Sample ID: 570-73067-7

Date Collected: 10/14/21 09:50

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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
Instrument 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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-73067-1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.098 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 21:26	P1R	ECL 2
Instrument ID: GC53										
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			189785	10/28/21 00:25	N1A	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-5-L8

## Lab Sample ID: 570-73067-9

Date Collected: 10/14/21 10:00

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.79 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 09:22	A9VE	ECL 2
Instrument ID: GC1										
Silica Gel Cleanup	Prep	3550C SGC			9.97 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189785	10/28/21 00:46	N1A	ECL 1
Instrument ID: GC48										
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	NWTPH-Dx	DL	20			189785	10/28/21 14:38	N1A	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-7.5-L8

## Lab Sample ID: 570-73067-10

Date Collected: 10/14/21 10:05

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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
Instrument 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
Instrument 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		20	5 mL	5 mL	187511	10/19/21 18:41	P1R	ECL 2
Instrument ID: GC57										
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
Instrument ID: GC48										

# Lab Chronicle

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

Job ID: 570-73067-1

## Client Sample ID: S-12.5-L8

## Lab Sample ID: 570-73067-12

Date Collected: 10/14/21 10:15

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.19 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			189785	10/28/21 02:30	N1A	ECL 1

## Client Sample ID: S-2.5-O7

## Lab Sample ID: 570-73067-13

Date Collected: 10/14/21 10:30

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.762 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC1		500	5 mL	5 mL	188043	10/21/21 07:46	A9VE	ECL 2
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 Instrument ID: GC48		5			189785	10/28/21 02:50	N1A	ECL 1

## Client Sample ID: S-5-O7

## Lab Sample ID: 570-73067-14

Date Collected: 10/14/21 10:35

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.716 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		10			189785	10/28/21 03:11	N1A	ECL 1

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.756 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC1		500	5 mL	5 mL	188043	10/21/21 02:04	A9VE	ECL 2
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 Instrument ID: GC48		5			189785	10/28/21 03:31	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-73067-1

## Client Sample ID: S-10-O7

Lab Sample ID: 570-73067-16

Date Collected: 10/14/21 10:45

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.86 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		20	5 mL	5 mL	187511	10/19/21 19:05	P1R	ECL 2
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 Instrument ID: GC48		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

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.78 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		1	5 g	5 mL	187778	10/20/21 14:24	P1R	ECL 2
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 Instrument ID: GC48		1			189785	10/28/21 04:14	N1A	ECL 1

## Client Sample ID: S-5-P6

Lab Sample ID: 570-73067-18

Date Collected: 10/14/21 10:55

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	187594	10/19/21 12:48	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC1		500	5 mL	5 mL	188043	10/21/21 01:40	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			6.19 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		10			189785	10/28/21 04:35	N1A	ECL 1

## Client Sample ID: S-10-P6

Lab Sample ID: 570-73067-19

Date Collected: 10/14/21 11:00

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.124 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		1	5 g	5 mL	187778	10/20/21 13:12	P1R	ECL 2
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 Instrument ID: GC48		1			189785	10/28/21 04:55	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-73067-1

## Client Sample ID: S-12.5-P6

Lab Sample ID: 570-73067-20

Date Collected: 10/14/21 11:05

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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
Instrument 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
Instrument ID: GC48										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/20/21 00:28	P1R	ECL 2
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/20/21 00:57	P1R	ECL 2
Instrument ID: GC25										
Silica Gel Cleanup	Prep	3510C SGC			259.3 mL	2.5 mL	188018	10/20/21 16:00	UFLU	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189384	10/26/21 17:52	UJ3K	ECL 1
Instrument ID: GC48										

## Client Sample ID: S-2.5-O3

Lab Sample ID: 570-73067-23

Date Collected: 10/14/21 11:10

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-5-O3

Lab Sample ID: 570-73067-24

Date Collected: 10/14/21 11:15

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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
Instrument ID: GC53										

Eurofins Calscience LLC

# Lab Chronicle

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

Job ID: 570-73067-1

**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**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Dx	DL	10			189785	10/28/21 16:00	N1A	ECL 1
Instrument ID: GC48										
Silica Gel Cleanup	Prep	3550C SGC			8.66 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/27/21 22:55	A1W	ECL 1
Instrument ID: GC50										

**Client Sample ID: S-7.5-O3**  
**Date Collected: 10/14/21 11:20**  
**Date Received: 10/15/21 10:10**

**Lab Sample ID: 570-73067-25**  
**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			6.955 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 13:36	P1R	ECL 2
Instrument ID: GC53										
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
Instrument ID: GC50										

**Client Sample ID: S-2.5-P4**  
**Date Collected: 10/14/21 11:25**  
**Date Received: 10/15/21 10:10**

**Lab Sample ID: 570-73067-26**  
**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			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
Instrument 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
Instrument ID: GC50										

**Client Sample ID: S-5-P4**  
**Date Collected: 10/14/21 11:30**  
**Date Received: 10/15/21 10:10**

**Lab Sample ID: 570-73067-27**  
**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			5.777 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
Instrument 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
Instrument ID: GC50										



# Lab Chronicle

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

Job ID: 570-73067-1

**Client Sample ID: S-7.5-P4**

**Lab Sample ID: 570-73067-28**

Date Collected: 10/14/21 11:35

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	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
Instrument 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
Instrument ID: GC50										

**Client Sample ID: S-2.5-P2**

**Lab Sample ID: 570-73067-29**

Date Collected: 10/14/21 11:40

Matrix: Solid

Date Received: 10/15/21 10:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.733 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 14:00	P1R	ECL 2
Instrument ID: GC53										
Silica Gel Cleanup	Prep	3550C SGC			10.31 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189859	10/28/21 00:35	A1W	ECL 1
Instrument ID: GC50										

**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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		500	5 mL	5 mL	188035	10/21/21 07:29	A9VE	ECL 2
Instrument ID: GC53										
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	NWTPH-Dx	DL	10			189785	10/28/21 16:20	N1A	ECL 1
Instrument ID: GC48										
Silica Gel Cleanup	Prep	3550C SGC			9.73 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			189859	10/28/21 00:56	A1W	ECL 1
Instrument ID: GC50										

**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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.628 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-73067-1

**Client Sample ID: S-2.5-O1**  
**Date Collected: 10/14/21 11:55**  
**Date Received: 10/15/21 10:10**

**Lab Sample ID: 570-73067-32**  
**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			5.017 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC50		10			189859	10/28/21 01:36	A1W	ECL 1

**Client Sample ID: S-5-O1**  
**Date Collected: 10/14/21 12:00**  
**Date Received: 10/15/21 10:10**

**Lab Sample ID: 570-73067-33**  
**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			6.112 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC53		1	5 g	5 mL	187778	10/20/21 23:27	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		5			189859	10/28/21 02:37	A1W	ECL 1

**Client Sample ID: S-7.5-O1**  
**Date Collected: 10/14/21 12:05**  
**Date Received: 10/15/21 10:10**

**Lab Sample ID: 570-73067-34**  
**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			6.054 g	5 g	187592	10/19/21 12:47	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			189859	10/28/21 02:56	A1W	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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73067-1

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-18	10-12-22

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Method Summary

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

Job ID: 570-73067-1

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
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



7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
Calscience  
TEL: (714) 896-5494 . FAX: (714) 894-7501

**Site Name** Everett Bulk Plant  
*Provides MRN for retail or AFE for major projects*  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name** ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE: 10/14/2021  
PAGE: 2 OF 2

ExxonMobil Engr  
Jennifer Sedlitzek

LABORATORY CLIENT:  
**Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855 FAX: N/A  
robert.thompson@cardno.com

GLOBAL ID # COBLT LOG CODE: P O 0314476040 Agreement# A2604415

PROJECT CONTACT: Robert Thompson  
SAMPLER(S): Paul Prevou, Cameron Penner-Ash, John Considine

TURNAROUND TIME:  24 HR  48 HR  72 HR  10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY):  
 RAWQCB REPORTING  ARCHIVE SAMPLES UNTIL \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

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.thompson@cardno.com  
All units in mg/kg.  
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com

LAB USE ONLY COBLT RECEIPT	TEMP: #	NO. OF CONT	MATERIAL RIX	SAMPLING		FIELD POINT NAME	DATE	TIME	MAT. RIX	NO. OF CONT	FORM MS/MSD	NWTRPH-GX - TPH as Gasoline	NWTRPH-DX - TPH as Diesel and Motor Oil	CONTAINER TYPE
				DATE	TIME									
1	S-2.5-M9	10/14/2021	0920	S	4	S-2.5-M9	10/14/2021	0920	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
2	S-5-M9	10/14/2021	0925	S	4	S-5-M9	10/14/2021	0925	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
3	S-7.5-M9	10/14/2021	0930	S	4	S-7.5-M9	10/14/2021	0930	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
4	S-10-M9	10/14/2021	0935	S	4	S-10-M9	10/14/2021	0935	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
5	S-12.5-M9	10/14/2021	0940	S	4	S-12.5-M9	10/14/2021	0940	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
6	S-15-M9	10/14/2021	0945	S	4	S-15-M9	10/14/2021	0945	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
7	S-17.5-M9	10/14/2021	0950	S	4	S-17.5-M9	10/14/2021	0950	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
8	S-2.5-L8	10/14/2021	0955	S	4	S-2.5-L8	10/14/2021	0955	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
9	S-5-L8	10/14/2021	1000	S	4	S-5-L8	10/14/2021	1000	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
10	S-7.5-L8	10/14/2021	1005	S	4	S-7.5-L8	10/14/2021	1005	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
11	S-10-L8	10/14/2021	1010	S	4	S-10-L8	10/14/2021	1010	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
12	S-12.5-L8	10/14/2021	1015	S	4	S-12.5-L8	10/14/2021	1015	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
13	S-15-L8	10/14/2021	1030	S	4	S-15-L8	10/14/2021	1030	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
14	S-17.5-L8	10/14/2021	1035	S	4	S-17.5-L8	10/14/2021	1035	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
15	S-2.5-P6	10/14/2021	1040	S	4	S-2.5-P6	10/14/2021	1040	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
16	S-5-P6	10/14/2021	1045	S	4	S-5-P6	10/14/2021	1045	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
17	S-7.5-P6	10/14/2021	1050	S	4	S-7.5-P6	10/14/2021	1050	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
18	S-10-P6	10/14/2021	1055	S	4	S-10-P6	10/14/2021	1055	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
19	S-12.5-P6	10/14/2021	1100	S	4	S-12.5-P6	10/14/2021	1100	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
20	S-15-P6	10/14/2021	1105	S	4	S-15-P6	10/14/2021	1105	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
21	Trip Blank					Trip Blank								
22	EQB1					EQB1								
Relinquished by (Signature) Paul Prevou										2	X	X	2 VOAs	
Relinquished by (Signature) Paul Prevou										2	X	X	2 UN-PRESERVED AMBERS, 3 VOAs	



570-73067 Chain of Custody

**REQUESTED ANALYSIS**

Date, & Time: 10/14/2021 4:15 PM  
Date, & Time: 10/15/21 10:00  
Date, & Time: 20/10-9 SCS

Received by (Signature) Paul Prevou  
Received by (Signature) Paul Prevou  
Received by (Signature) Paul Prevou





# Login Sample Receipt Checklist

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.		

## 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

*Cecile de Guia*

---

Authorized for release by:  
11/17/2021 1:24:59 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73077-1

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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73077-1

## Glossary

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

# Case Narrative

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

Job ID: 570-73077-1

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## Job ID: 570-73077-1

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### 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, 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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73077-1

## Client Sample ID: S-5-Q5

Lab Sample ID: 570-73077-1

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-Q5

Lab Sample ID: 570-73077-2

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-Q5 DUP

Lab Sample ID: 570-73077-3

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-R5A

Lab Sample ID: 570-73077-4

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

Lab Sample ID: 570-73077-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	4.7		0.26	mg/Kg	1	✳	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	40		6.3	mg/Kg	1	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-R4

Lab Sample ID: 570-73077-6

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 Blank

Lab Sample ID: 570-73077-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-73077-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.5		0.25	mg/Kg	☼	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

### 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		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	5

## Client Sample ID: S-7.5-Q5

Date Collected: 10/15/21 11:20

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73077-2

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)	0.45		0.21	mg/Kg	☼	10/18/21 19:29	10/19/21 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150	10/18/21 19:29	10/19/21 15:54	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		6.3	mg/Kg	☼	10/27/21 19:28	10/28/21 09:27	1
TPH as Motor Oil Range	ND		6.3	mg/Kg	☼	10/27/21 19:28	10/28/21 09:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150	10/27/21 19:28	10/28/21 09:27	1

## Client Sample ID: S-7.5-Q5 DUP

Date Collected: 10/15/21 11:25

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73077-3

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)	0.44		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 - 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	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150	10/27/21 19:28	10/28/21 09:47	1

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-73077-1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2.1		0.21	mg/Kg	☼	10/18/21 19:29	10/19/21 17:27	1

Surrogate	%Recovery	Qualifier	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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		6.0	mg/Kg	☼	10/27/21 19:28	10/28/21 10:08	1
TPH as Motor Oil Range	ND		6.0	mg/Kg	☼	10/27/21 19:28	10/28/21 10:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		50 - 150	10/27/21 19:28	10/28/21 10:08	1

## Client Sample ID: S-5-R4

Lab Sample ID: 570-73077-5

Date Collected: 10/15/21 12:20

Matrix: Solid

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)	4.7		0.26	mg/Kg	☼	10/18/21 19:29	10/19/21 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150	10/18/21 19:29	10/19/21 16:40	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		6.3	mg/Kg	☼	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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150	10/27/21 19:28	10/28/21 10:30	1

## 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 - Northwest - Volatile Petroleum Products (GC)

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	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150	10/18/21 19:29	10/19/21 17:04	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		29	mg/Kg	☼	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

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-73077-1

**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 - 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 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	56		50 - 150		10/20/21 01:26	1



# Surrogate Summary

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

Job ID: 570-73077-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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-Bromofluorobenzene (Surr)

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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

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)

Lab Sample ID	Client Sample ID	OTCSN (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

#### Surrogate Legend

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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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# QC Sample Results

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

Job ID: 570-73077-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-187511/10**  
**Matrix: Solid**  
**Analysis Batch: 187511**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/19/21 14:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 150				10/19/21 14:40	1

**Lab Sample ID: LCS 570-187511/6**  
**Matrix: Solid**  
**Analysis Batch: 187511**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.103		mg/Kg		99	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		50 - 150				

**Lab Sample ID: LCSD 570-187511/7**  
**Matrix: Solid**  
**Analysis Batch: 187511**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	2.140		mg/Kg		101	77 - 128	2	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		50 - 150						

**Lab Sample ID: MB 570-187662/5**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ug/L			10/19/21 18:52	1
Surrogate	MB %Recovery	MB 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**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2130	2099		ug/L		99	76 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	91		50 - 150				

# QC Sample Results

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

Job ID: 570-73077-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-187662/4**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2130	2111		ug/L		99	76 - 128	1	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	87		50 - 150						

**Lab Sample ID: 570-72969-D-3 MS**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2130	2070		ug/L		97	69 - 132		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	89		50 - 150								

**Lab Sample ID: 570-72969-D-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2130	2120		ug/L		100	69 - 132	2	15
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
4-Bromofluorobenzene (Surr)	91		50 - 150								

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

**Lab Sample ID: MB 570-189870/1-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Method Blank**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	MB Result	MB 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	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>			
n-Octacosane (Surr)	108		50 - 150	10/27/21 19:28	10/27/21 21:19	1			

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	433.7		mg/Kg		108	76 - 126		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
n-Octacosane (Surr)	112		50 - 150						

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# QC Sample Results

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

Job ID: 570-73077-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCS 570-189870/6-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	443.1		mg/Kg		111	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>n-Octacosane (Surr)</i>	112		50 - 150				

**Lab Sample ID: LCSD 570-189870/3-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	400	450.8		mg/Kg		113	76 - 126	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	112		50 - 150						

**Lab Sample ID: LCSD 570-189870/7-A**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	400	426.2		mg/Kg		107	71 - 139	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	114		50 - 150						

**Lab Sample ID: 570-73077-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: S-7.5-Q5**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	ND		492	541.4		mg/Kg	⊛	110	37 - 175
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	109		50 - 150						

**Lab Sample ID: 570-73077-2 MS**  
**Matrix: Solid**  
**Analysis Batch: 189785**

**Client Sample ID: S-7.5-Q5**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 189870**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	ND		496	516.7		mg/Kg	⊛	104	71 - 174
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
<i>n-Octacosane (Surr)</i>	114		50 - 150						

# QC Sample Results

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

Job ID: 570-73077-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-73077-2 MSD**

**Matrix: Solid**

**Analysis Batch: 189785**

**Client Sample ID: S-7.5-Q5**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 189870**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Diesel (C10-C28)	ND		480	542.9		mg/Kg	⊛	113	37 - 175	0	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b> <b>Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	111		50 - 150								

**Lab Sample ID: 570-73077-2 MSD**

**Matrix: Solid**

**Analysis Batch: 189785**

**Client Sample ID: S-7.5-Q5**

**Prep Type: Silica Gel Cleanup**

**Prep Batch: 189870**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	ND		493	535.8		mg/Kg	⊛	109	71 - 174	4	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD</b> <b>Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	110		50 - 150								

# QC Association Summary

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

Job ID: 570-73077-1

## 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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73077-1

## 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	



# Lab Chronicle

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

Job ID: 570-73077-1

**Client Sample ID: S-5-Q5**

**Lab Sample ID: 570-73077-1**

Date Collected: 10/15/21 11:15

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1	5 g	5 mL	187511	10/19/21 15:30	P1R	ECL 2
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 Instrument ID: GC48		5			189785	10/28/21 08:24	N1A	ECL 1

**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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1	5 g	5 mL	187511	10/19/21 15:54	P1R	ECL 2
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 Instrument ID: GC48		1			189785	10/28/21 09:27	N1A	ECL 1

**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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1	5 g	5 mL	187511	10/19/21 16:17	P1R	ECL 2
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 Instrument ID: GC48		1			189785	10/28/21 09:47	N1A	ECL 1

**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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC57		1	5 g	5 mL	187511	10/19/21 17:27	P1R	ECL 2
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 Instrument ID: GC48		1			189785	10/28/21 10:08	N1A	ECL 1

# Lab Chronicle

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

Job ID: 570-73077-1

**Client Sample ID: S-5-R4**  
**Date Collected: 10/15/21 12:20**  
**Date Received: 10/16/21 12:00**

**Lab Sample ID: 570-73077-5**  
**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			6.428 g	5 g	187400	10/18/21 19:29	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC48		1			189785	10/28/21 10:30	N1A	ECL 1

**Client Sample ID: S-7.5-R4**  
**Date Collected: 10/15/21 12:25**  
**Date Received: 10/16/21 12:00**

**Lab Sample ID: 570-73077-6**  
**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			6.942 g	5 g	187400	10/18/21 19:29	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC57		1	5 g	5 mL	187511	10/19/21 17:04	P1R	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.84 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC48		5			189785	10/28/21 10:50	N1A	ECL 1

**Client Sample ID: Trip Blank**  
**Date Collected: 10/15/21 00:00**  
**Date Received: 10/16/21 12:00**

**Lab Sample ID: 570-73077-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC25		1	5 mL	5 mL	187662	10/20/21 01:26	P1R	ECL 2

**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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73077-1

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-18	10-12-22

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# Method Summary

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

Job ID: 570-73077-1

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

## 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 USE ONLY	SAMPLE ID	Field Point Name	SAMPLING	
			DATE	TIME
1	S-5-QS	S-5-QS	10/15/2021	1115
2	S-7.5-QS	S-7.5-QS	10/15/2021	1120
3	S-7.5-QS DUP	S-7.5-QS DUP	10/15/2021	1125
4	S-7.5-R5	S-7.5-R5	10/15/2021	1215
5	S-5-R4	S-5-R4	10/15/2021	1220
6	S-7.5-R4	S-7.5-R4	10/15/2021	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 [laina.cole@cardno.com](mailto:laina.cole@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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,



73077



PEEL HERE

ORIGIN ID:BFIA (503) 869-1191  
 C. PENNER ASH  
 CARDNO  
 309 S CLOVERDALE ST  
 A13  
 SEATTLE, WA 98108  
 UNITED STATES US

SHIP DATE: 15OCT21  
 ACTWGT: 29.05 LB  
 CAD: 6993778/SSFE2220  
 DIMS: 24x14x14 IN

BILL THIRD PARTY

Part # 156297-435 FRDS EXP 01/15/21  
 Shipping Document

CALSCIENCE ENVIRONMENTAL LAB

CUSTODY

Date: 10-15-21

Signature: [Handwritten Signature]

1 Open pre-sealed.

ENVIRONMENTAL SAMPLING SUPP  
 www.esvial.com 800-...



FedEx Express

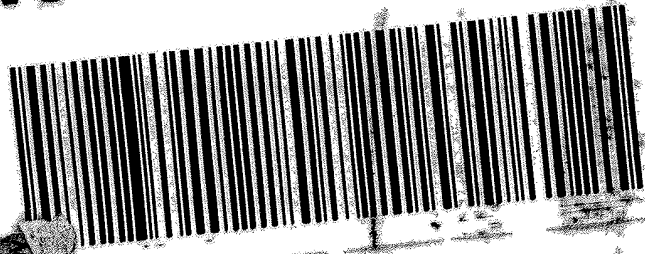


SATURDAY 12:00P  
 PRIORITY OVERNIGHT

AHS  
 92841  
 CA-US SNA

TRK# 2849 7327 6318  
 0201

WO APVA



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# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-73077-1

**Login Number: 73077**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Ramos, Maribel**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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.	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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## 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

*Cecile de Guia*

---

Authorized for release by:  
11/17/2021 12:53:36 PM

Cecile de Guia, Project Manager I  
(714)895-5494  
[Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73078-1

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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73078-1

## Glossary

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

# Case Narrative

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

Job ID: 570-73078-1

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## Job ID: 570-73078-1

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### 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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73078-1

## Client Sample ID: S-2.5-Q1

Lab Sample ID: 570-73078-1

No Detections.

## Client Sample ID: S-5-Q1

Lab Sample ID: 570-73078-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	2.5		0.20	mg/Kg	1	☒	NWTPH-Gx	Total/NA

## Client Sample ID: S-7.5-Q1

Lab Sample ID: 570-73078-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	0.33		0.29	mg/Kg	1	☒	NWTPH-Gx	Total/NA
TPH as Motor Oil Range	38		5.9	mg/Kg	1	☒	NWTPH-Dx	Silica Gel 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)	0.24		0.20	mg/Kg	1	☒	NWTPH-Gx	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
TPH as Motor Oil Range	62		13	mg/Kg	2	☒	NWTPH-Dx	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
TPH as Motor Oil Range	9.8		6.6	mg/Kg	1	☒	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-5-Q3

Lab Sample ID: 570-73078-8

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	D	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-73078-1

## Client Sample ID: S-5-C1 (Continued)

Lab Sample ID: 570-73078-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Diesel Range	4400		27	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup
TPH as Motor Oil Range	1100		27	mg/Kg	5	✳	NWTPH-Dx	Silica Gel Cleanup

## Client Sample ID: S-7.5-C1

Lab Sample ID: 570-73078-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TPH as Gasoline (C4-C13)	8.0		0.26	mg/Kg	1	✳	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	D	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.

Eurofins Calscience LLC

# Detection Summary

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

Job ID: 570-73078-1

**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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This Detection Summary does not include radiochemical test results.

Eurofins Calscience LLC



# Client Sample Results

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

Job ID: 570-73078-1

## 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

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		0.36	mg/Kg	☼	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

### 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		5.3	mg/Kg	☼	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

## Client Sample ID: S-5-Q1

Date Collected: 10/14/21 13:05

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-2

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)	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)	77		50 - 150	10/21/21 14:27	10/22/21 15:23	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		6.1	mg/Kg	☼	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	Qualifier	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

Date Collected: 10/14/21 13:10

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-3

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)	0.33		0.29	mg/Kg	☼	10/21/21 14:27	10/22/21 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		50 - 150	10/21/21 14:27	10/22/21 15:46	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		5.9	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-73078-1

## Client Sample ID: S-5-S1

Date Collected: 10/14/21 13:20

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-4

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		0.20	mg/Kg	☼	10/21/21 14:27	10/22/21 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		50 - 150	10/21/21 14:27	10/22/21 16:10	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		5.7	mg/Kg	☼	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

Date Collected: 10/14/21 13:25

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-5

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)	0.24		0.20	mg/Kg	☼	10/21/21 14:27	10/22/21 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		50 - 150	10/21/21 14:27	10/22/21 16:33	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		5.8	mg/Kg	☼	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

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.24	mg/Kg	☼	10/21/21 14:27	10/22/21 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150	10/21/21 14:27	10/22/21 16:57	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		13	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-73078-1

## Client Sample ID: S-2.5-Q3

Lab Sample ID: 570-73078-7

Date Collected: 10/14/21 13:30

Matrix: Solid

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)	9.3		0.26	mg/Kg	☼	10/21/21 14:27	10/22/21 17:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150	10/21/21 14:27	10/22/21 17:20	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		6.6	mg/Kg	☼	10/28/21 14:48	10/29/21 01:39	1
TPH as Motor Oil Range	9.8		6.6	mg/Kg	☼	10/28/21 14:48	10/29/21 01:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	101		50 - 150	10/28/21 14:48	10/29/21 01:39	1

## 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

### Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	530		53	mg/Kg	☼	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

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
n-Octacosane (Surr)	97		50 - 150	10/28/21 14:48	10/29/21 01:59	1

## Client Sample ID: S-7.5-Q3

Lab Sample ID: 570-73078-9

Date Collected: 10/14/21 13:40

Matrix: Solid

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)	110		48	mg/Kg	☼	10/21/21 14:27	10/27/21 11:20	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150	10/21/21 14:27	10/27/21 11:20	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	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

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# Client Sample Results

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

Job ID: 570-73078-1

## Client Sample ID: S-5-C1

Date Collected: 10/15/21 08:20

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-10

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)	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

### 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	4400		27	mg/Kg	☼	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	Qualifier	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

Date Collected: 10/15/21 10:10

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-11

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)	8.0		0.26	mg/Kg	☼	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 - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	47		11	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150	10/28/21 14:48	10/29/21 03:40	1

## Client Sample ID: S-10-C1

Date Collected: 10/15/21 10:15

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-12

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)	0.54		0.41	mg/Kg	☼	10/21/21 14:27	10/22/21 20:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150	10/21/21 14:27	10/22/21 20:06	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		7.3	mg/Kg	☼	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

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# Client Sample Results

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

Job ID: 570-73078-1

## Client Sample ID: S-12.5-C1

Lab Sample ID: 570-73078-13

Date Collected: 10/15/21 10:20

Matrix: Solid

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		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

### 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	☼	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

## Client Sample ID: S-5-C1 DUP

Lab Sample ID: 570-73078-14

Date Collected: 10/15/21 08:25

Matrix: Solid

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)	160		57	mg/Kg	☼	10/21/21 14:27	10/27/21 11:44	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150	10/21/21 14:27	10/27/21 11:44	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	1500		8.1	mg/Kg	☼	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

## Client Sample ID: S-2.5-E1

Lab Sample ID: 570-73078-15

Date Collected: 10/15/21 08:40

Matrix: Solid

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		0.27	mg/Kg	☼	10/21/21 14:27	10/27/21 10:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150	10/21/21 14:27	10/27/21 10:32	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		33	mg/Kg	☼	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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150	10/28/21 14:48	10/29/21 05:00	5

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# Client Sample Results

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

Job ID: 570-73078-1

## Client Sample ID: S-5-E1

Date Collected: 10/15/21 08:45

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-16

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		0.26	mg/Kg	☼	10/21/21 14:27	10/22/21 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150	10/21/21 14:27	10/22/21 21:41	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		6.4	mg/Kg	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150	10/28/21 14:48	10/29/21 05:19	1

## Client Sample ID: S-7.5-D1A

Date Collected: 10/15/21 10:35

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-17

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)	22		1.2	mg/Kg	☼	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	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	930		37	mg/Kg	☼	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

Date Collected: 10/15/21 10:40

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-18

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)	0.62		0.24	mg/Kg	☼	10/21/21 14:27	10/22/21 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	52		50 - 150	10/21/21 14:27	10/22/21 22:28	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	☼	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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150	10/28/21 14:48	10/29/21 05:59	1

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# Client Sample Results

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

Job ID: 570-73078-1

## Client Sample ID: S-7.5-E1

Date Collected: 10/15/21 10:50

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-19

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		0.34	mg/Kg	☼	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	1
TPH as Motor Oil Range	ND		7.1	mg/Kg	☼	10/28/21 14:48	10/29/21 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		50 - 150	10/28/21 14:48	10/29/21 06:18	1

## Client Sample ID: S-10-E1

Date Collected: 10/15/21 10:55

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-20

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		1.4	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	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	ND		12	mg/Kg	☼	10/28/21 14:48	10/29/21 06:37	1
TPH as Motor Oil Range	ND		12	mg/Kg	☼	10/28/21 14:48	10/29/21 06:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		50 - 150	10/28/21 14:48	10/29/21 06:37	1

## Client Sample ID: Trip Blank

Date Collected: 10/15/21 00:00

Date Received: 10/16/21 12:00

## Lab Sample ID: 570-73078-21

Matrix: Water

### 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 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 150		10/20/21 11:19	1

# Surrogate Summary

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

Job ID: 570-73078-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (50-150)
570-73078-1	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

BFB = 4-Bromofluorobenzene (Surr)

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (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

BFB = 4-Bromofluorobenzene (Surr)



# Surrogate Summary

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

Job ID: 570-73078-1

**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)
570-73078-1	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-Octacosane (Surr)

# QC Sample Results

Client: Cardno, Inc  
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**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		100	ug/L			10/19/21 18:52	1
Surrogate	MB %Recovery	MB 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**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2130	2099		ug/L		99	76 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	91		50 - 150				

**Lab Sample ID: LCSD 570-187662/4**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2130	2111		ug/L		99	76 - 128	1	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	87		50 - 150						

**Lab Sample ID: 570-72969-D-3 MS**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	ND		2130	2070		ug/L		97	69 - 132
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		50 - 150						

**Lab Sample ID: 570-72969-D-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 187662**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	ND		2130	2120		ug/L		100	69 - 132	2	15
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		50 - 150								

# QC Sample Results

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

Job ID: 570-73078-1

## Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: MB 570-188567/5**  
**Matrix: Solid**  
**Analysis Batch: 188567**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/22/21 14:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150				10/22/21 14:12	1

**Lab Sample ID: LCS 570-188567/3**  
**Matrix: Solid**  
**Analysis Batch: 188567**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	2.033		mg/Kg		96	77 - 128
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	107		50 - 150				

**Lab Sample ID: LCSD 570-188567/4**  
**Matrix: Solid**  
**Analysis Batch: 188567**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.12	1.922		mg/Kg		90	77 - 128	6	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	106		50 - 150						

**Lab Sample ID: MB 570-189544/31**  
**Matrix: Solid**  
**Analysis Batch: 189544**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		0.25	mg/Kg			10/27/21 00:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		50 - 150				10/27/21 00:54	1

**Lab Sample ID: MB 570-189544/32**  
**Matrix: Solid**  
**Analysis Batch: 189544**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	ND		5.0	mg/Kg			10/27/21 01:18	20
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62		50 - 150				10/27/21 01:18	20

# QC Sample Results

Client: Cardno, Inc  
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**  
**Matrix: Solid**  
**Analysis Batch: 189544**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Gasoline (C4-C13)	2.12	1.910		mg/Kg		90	77 - 128
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
4-Bromofluorobenzene (Surr)	95		50 - 150				

**Lab Sample ID: LCSD 570-189544/30**  
**Matrix: Solid**  
**Analysis Batch: 189544**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Gasoline (C4-C13)	2.13	1.921		mg/Kg		90	77 - 128	1	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	90		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**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Diesel Range	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
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
n-Octacosane (Surr)	100		50 - 150			10/28/21 14:48	10/28/21 20:23	1

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	400	424.4		mg/Kg		106	76 - 126
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	99		50 - 150				

**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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	400	377.9		mg/Kg		94	71 - 139
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
n-Octacosane (Surr)	98		50 - 150				

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# QC Sample Results

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

Job ID: 570-73078-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: LCSD 570-190130/3-A**  
**Matrix: Solid**  
**Analysis Batch: 190211**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 190130**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Diesel (C10-C28)	400	432.8		mg/Kg		108	76 - 126	2	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	98		50 - 150							

**Lab Sample ID: LCSD 570-190130/7-A**  
**Matrix: Solid**  
**Analysis Batch: 190211**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 190130**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit	
TPH as Motor Oil (C17-C44)	400	373.0		mg/Kg		93	71 - 139	1	20	
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	98		50 - 150							

**Lab Sample ID: 570-73078-6 MS**  
**Matrix: Solid**  
**Analysis Batch: 190211**

**Client Sample ID: S-2.5-S1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 190130**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
TPH as Diesel (C10-C28)	25		519	592.7		mg/Kg	⊛	109	37 - 175	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	100		50 - 150							

**Lab Sample ID: 570-73078-6 MS**  
**Matrix: Solid**  
**Analysis Batch: 190211**

**Client Sample ID: S-2.5-S1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 190130**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
TPH as Motor Oil (C17-C44)	74		491	543.7		mg/Kg	⊛	96	71 - 174	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>							
<i>n-Octacosane (Surr)</i>	93		50 - 150							

**Lab Sample ID: 570-73078-6 MSD**  
**Matrix: Solid**  
**Analysis Batch: 190211**

**Client Sample ID: S-2.5-S1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 190130**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	25		466	527.4		mg/Kg	⊛	108	37 - 175	12	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
<i>n-Octacosane (Surr)</i>	94		50 - 150								

# QC Sample Results

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

Job ID: 570-73078-1

## Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

**Lab Sample ID: 570-73078-6 MSD**  
**Matrix: Solid**  
**Analysis Batch: 190211**

**Client Sample ID: S-2.5-S1**  
**Prep Type: Silica Gel Cleanup**  
**Prep Batch: 190130**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
TPH as Motor Oil (C17-C44)	74		506	559.4		mg/Kg	✱	96	71 - 174	3	20
<b>Surrogate</b>	<b>MSD</b>	<b>MSD</b>									
<i>n</i> -Octacosane (Surr)	100										50 - 150

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# QC Association Summary

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

Job ID: 570-73078-1

## 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	

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# QC Association Summary

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

Job ID: 570-73078-1

## 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 Batch
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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73078-1

## 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

# Lab Chronicle

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

Job ID: 570-73078-1

**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**  
**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			3.763 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			190211	10/28/21 23:39	A1W	ECL 1

**Client Sample ID: S-5-Q1**  
**Date Collected: 10/14/21 13:05**  
**Date Received: 10/16/21 12:00**

**Lab Sample ID: 570-73078-2**  
**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			7.425 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		1	5 g	5 mL	188567	10/22/21 15:23	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			9.62 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		1			190211	10/28/21 23:59	A1W	ECL 1

**Client Sample ID: S-7.5-Q1**  
**Date Collected: 10/14/21 13:10**  
**Date Received: 10/16/21 12:00**

**Lab Sample ID: 570-73078-3**  
**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			5.227 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		1	5 g	5 mL	188567	10/22/21 15:46	A9VE	ECL 2
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 Instrument ID: GC50		1			190211	10/29/21 00:18	A1W	ECL 1

**Client Sample ID: S-5-S1**  
**Date Collected: 10/14/21 13:20**  
**Date Received: 10/16/21 12:00**

**Lab Sample ID: 570-73078-4**  
**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			7.245 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		1	5 g	5 mL	188567	10/22/21 16:10	A9VE	ECL 2
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 Instrument ID: GC50		1			190211	10/29/21 00:39	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-73078-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			190211	10/29/21 01:00	A1W	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		2			190211	10/29/21 01:19	A1W	ECL 1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.993 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		1	5 g	5 mL	188567	10/22/21 17:20	A9VE	ECL 2
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 Instrument ID: GC50		1			190211	10/29/21 01:39	A1W	ECL 1

**Client Sample ID: S-5-Q3**  
**Date Collected: 10/14/21 13:35**  
**Date Received: 10/16/21 12:00**

**Lab Sample ID: 570-73078-8**  
**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			6.792 g	5 mL	188257	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		250	5 mL	5 mL	189544	10/27/21 07:34	A9VE	ECL 2
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 Instrument ID: GC50		1			190211	10/29/21 01:59	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-73078-1

## Client Sample ID: S-7.5-Q3

## Lab Sample ID: 570-73078-9

Date Collected: 10/14/21 13:40

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

## Client Sample ID: S-5-C1

## Lab Sample ID: 570-73078-10

Date Collected: 10/15/21 08:20

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	Prep	3550C SGC			10.19 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			190211	10/29/21 02:39	A1W	ECL 1
Instrument ID: GC50										

## Client Sample ID: S-7.5-C1

## Lab Sample ID: 570-73078-11

Date Collected: 10/15/21 10:10

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx		1	5 g	5 mL	188567	10/22/21 19:42	A9VE	ECL 2
Instrument ID: GC56										
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
Instrument ID: GC50										

## Client Sample ID: S-10-C1

## Lab Sample ID: 570-73078-12

Date Collected: 10/15/21 10:15

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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
Instrument 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
Instrument ID: GC50										

# Lab Chronicle

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

Job ID: 570-73078-1

## Client Sample ID: S-12.5-C1

Lab Sample ID: 570-73078-13

Date Collected: 10/15/21 10:20

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.818 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			190211	10/29/21 04:19	A1W	ECL 1

## Client Sample ID: S-5-C1 DUP

Lab Sample ID: 570-73078-14

Date Collected: 10/15/21 08:25

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		250	5 mL	5 mL	189544	10/27/21 11:44	A9VE	ECL 2
Silica Gel Cleanup	Prep	3550C SGC			6.95 g	10 mL	190130	10/28/21 14:48	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx Instrument ID: GC50		1			190211	10/29/21 04:39	A1W	ECL 1

## Client Sample ID: S-2.5-E1

Lab Sample ID: 570-73078-15

Date Collected: 10/15/21 08:40

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		1	5 g	5 mL	189544	10/27/21 10:32	A9VE	ECL 2
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 Instrument ID: GC50		5			190211	10/29/21 05:00	A1W	ECL 1

## Client Sample ID: S-5-E1

Lab Sample ID: 570-73078-16

Date Collected: 10/15/21 08:45

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		1	5 g	5 mL	188567	10/22/21 21:41	A9VE	ECL 2
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 Instrument ID: GC50		1			190211	10/29/21 05:19	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-73078-1

## Client Sample ID: S-7.5-D1A

Lab Sample ID: 570-73078-17

Date Collected: 10/15/21 10:35

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			190211	10/29/21 05:38	A1W	ECL 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	NWTPH-Gx Instrument 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 Instrument ID: GC50		1			190211	10/29/21 05:59	A1W	ECL 1

## Client Sample ID: S-7.5-E1

Lab Sample ID: 570-73078-19

Date Collected: 10/15/21 10:50

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.345 g	5 g	188256	10/21/21 14:27	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx Instrument ID: GC56		1	5 g	5 mL	188567	10/22/21 22:51	A9VE	ECL 2
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 Instrument ID: GC50		1			190211	10/29/21 06:18	A1W	ECL 1

## Client Sample ID: S-10-E1

Lab Sample ID: 570-73078-20

Date Collected: 10/15/21 10:55

Matrix: Solid

Date Received: 10/16/21 12:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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 Instrument ID: GC56		1	5 g	5 mL	189544	10/27/21 07:11	A9VE	ECL 2
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 Instrument ID: GC50		1			190211	10/29/21 06:37	A1W	ECL 1

# Lab Chronicle

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

Job ID: 570-73078-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	187662	10/20/21 11:19	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  
Project/Site: ExxonMobil ADC/0314476040

Job ID: 570-73078-1

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-18	10-12-22

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# Method Summary

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

Job ID: 570-73078-1

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

## 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.

17	S-25-D1	S-7.5-D1	10/15/2021	1035
16	S-10-D1	S-10-D1	10/15/2021	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](mailto:laina.cole@cardno.com) Web [www.cardno.com](http://www.cardno.com)

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, any use, distribution or copying of the information contained in this email and its attachments is strictly prohibited. If you have received this email in error, please email the sender by replying to this message and immediately delete and destroy any copies of this email and any attachments. The views or opinions expressed are the author's own and may not reflect the views or opinions of Cardno.

---

**From:** Cecile de Guia <Cecile.deGuia@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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Hello,

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: [Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)  
[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [570-255795]  
Attachments: 4

> > 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!

73078



7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
Calsciense  
TEL: (714) 895-8494 FAX: (714) 894-7501

**Site Name**  
Everett Bulk Plant  
**Provide MRN for retail or AFE for major projects**  
**Retail Project (MRN)**  
**Major Project (AFE)**  
**Project Name**  
ExxonMobil ADC / 0314476040

**CHAIN OF CUSTODY RECORD**  
DATE: 10/15/2021  
PAGE: 1 OF 1

LABORATORY CLIENT  
**Cardno**  
ADDRESS: 309 South Cloverdale Street Unit A13  
CITY: Seattle, WA 98108  
TEL: 206-510-5855 FAX: N/A  
TURNAROUND TIME: robert.thompson@cardno.com

SAME DAY  24 HR  48 HR  72 HR  5 DAYS  10 DAYS  
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)  
 RWQCB REPORTING  ARCHIVE SAMPLES UNTIL \_\_\_\_\_  
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.thompson@cardno.com  
All units in mg/kg.  
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com

GLOBAL ID # (COELT LOG CODE):  
PROJECT CONTACT: Robert Thompson  
SAMPLER(S): Paul Prevou, Cameron Penner-Ash, John Considine

P O 0314476040; Agreement# A2604415  
DATE USE ONLY  
COOLER RECEIPT  
Temp: # °C

**REQUESTED ANALYSIS**



570-73078 Chain of Custody

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		NO. OF CONT	MAT- RIX	TIME	Perfrom MS/MSD	CONTAINER TYPE
			DATE	TIME					
1	S-2.5-Q1	S-2.5-Q1	10/14/2021	1300	4	S	1300	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
2	S-5-Q1	S-5-Q1	10/14/2021	1305	4	S	1305	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
3	S-7.5-Q1	S-7.5-Q1	10/14/2021	1310	4	S	1310	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
4	S-5-S1	S-5-S1	10/14/2021	1320	4	S	1320	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
5	S-7.5-S1	S-7.5-S1	10/14/2021	1325	4	S	1325	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
6	S-2.5-S1	S-2.5-S1	10/14/2021	1315	4	S	1315	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
7	S-2.5-Q3	S-2.5-Q3	10/14/2021	1330	4	S	1330	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
8	S-5-Q3	S-5-Q3	10/14/2021	1335	4	S	1335	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
9	S-7.5-Q3	S-7.5-Q3	10/14/2021	1340	4	S	1340	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
10	S-5-C1	S-5-C1	10/15/2021	0820	4	S	0820	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
11	S-7.5-C1	S-7.5-C1	10/15/2021	1010	4	S	1010	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
12	S-10-C1	S-10-C1	10/15/2021	1015	4	S	1015	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
13	S-12.5-C1	S-12.5-C1	10/15/2021	1020	4	S	1020	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
14	S-5-C1 DUP	S-5-C1 DUP	10/15/2021	0825	4	S	0825	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
15	S-2.5-E1	S-2.5-E1	10/15/2021	0840	4	S	0840	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
16	S-5-E1	S-5-E1	10/15/2021	0845	4	S	0845	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
17	S-7.5-D1	S-7.5-D1	10/15/2021	1035	4	S	1035	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
18	S-10-D1	S-10-D1	10/15/2021	1040	4	S	1040	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
19	S-7.5-E1	S-7.5-E1	10/15/2021	1050	4	S	1050	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
20	S-10-E1	S-10-E1	10/15/2021	1055	4	S	1055	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
21	Trip Blank	Trip Blank	10/15/2021	-	2	W	-	X	2 VOAs
22	Trip Blank	Trip Blank	10/15/2021	-	2	S	-	X	2 VOAs

Date & Time: 10/15/2021 4:15:00 PM  
Date & Time: 10/14/21 1200  
Date & Time:

Received by (Signature):  
FedEx  
Received by (Signature):  
Received by (Signature):

Relinquished by (Signature):  
Relinquished by (Signature):  
Relinquished by (Signature):

35/4.4 SCS



92036



570-73078 Waybill

ORIGIN ID:BFIA (503) 864-1100  
C. BENNER ASH  
CARDNO  
308 S CLOVERDALE ST  
A13  
SEATTLE, WA 98108  
UNITED STATES US

SHIP DATE: 15OCT21  
ACTWGT: 46.70 LB  
CAD: 6993779/SSFE2220  
DIMS: 24x14x14 IN  
BILL THIRD PARTY

IT # 156297-435 RROB EXP 9/22  
9531/9817/ETJ95

**CALSCIENCE ENVIRONMENTAL LAB**

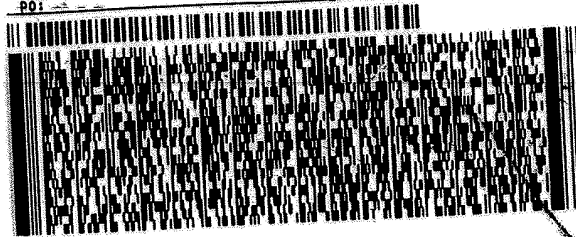
**7440 LINCOLN WAY**

**GARDEN GROVE CA 92841**

(718) 966-4844  
INU:  
PO:

REF:

DEPT:



**FedEx**  
Express



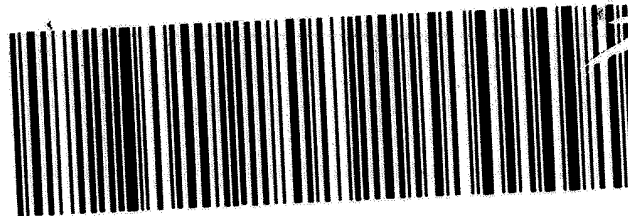
AP1080701208127

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

TRK# 2849 7296 5596  
0201

**WO APVA**

AHS  
92841  
CA-US SNA



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# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-73078-1

**Login Number: 73078**

**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.	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	

# **APPENDIX E**

## **Waste Documentation**



# APPENDIX E

## Waste Documentation





# CERTIFICATE OF DISPOSAL

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 D379156/311249 was received by U.S. Ecology, Inc., on 9/24/2021. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on 10/06/2021 in accordance with permits and laws regulating this facility.

**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

**Signature:**



A handwritten signature in cursive script that reads "Corian Schmitz". The signature is written in black ink and is positioned above a solid horizontal line.

**Title:** RECEIVING CLERK

# CERTIFICATE OF DISPOSAL

**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 **D379156/311249** was received by U.S. Ecology, Inc., on **9/24/2021**. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on **10/06/2021** in accordance with permits and laws regulating this facility.

**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:**

A handwritten signature in cursive script that reads "Corian Schmitz". The signature is written in black ink and is positioned above a solid horizontal line.

**Title:** RECEIVING CLERK

# CERTIFICATE OF DISPOSAL

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 D379156/311249 was received by U.S. Ecology, Inc., on 9/24/2021. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on 09/30/2021 in accordance with permits and laws regulating this facility.

**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

**Signature:**



A handwritten signature in cursive script that reads "Corian Schmitz". The signature is written in black ink and is positioned above a solid horizontal line.

**Title:** RECEIVING CLERK

# CERTIFICATE OF DISPOSAL

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 **322470/D394558** was received by U.S. Ecology, Inc., on **12/13/2021**. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on **12/21/2021** in accordance with permits and laws regulating this facility.

**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

**Signature:**



A handwritten signature in cursive script that reads "Corian Schmitz". The signature is written in black ink and is positioned above a solid horizontal line.

**Title:** RECEIVING CLERK

# CERTIFICATE OF DISPOSAL

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 322470/D394558 was received by U.S. Ecology, Inc., on 12/13/2021. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on 12/30/2021 in accordance with permits and laws regulating this facility.

**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

**Signature:**



A handwritten signature in cursive script that reads "Corian Schmitz". The signature is written in black ink and is positioned above a solid horizontal line.

**Title:** RECEIVING CLERK

# CERTIFICATE OF DISPOSAL

**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 **322470/D394558** was received by U.S. Ecology, Inc., on **12/13/2021**. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on **12/30/2021** in accordance with permits and laws regulating this facility.

**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

**Signature:**

A handwritten signature in cursive script that reads "Corian Schmitz". The signature is written in black ink and is positioned above a solid horizontal line.

**Title:** RECEIVING CLERK

# CERTIFICATE OF DISPOSAL

**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 **322470/D394558** was received by U.S. Ecology, Inc., on **12/13/2021**. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on **12/30/2021** in accordance with permits and laws regulating this facility.

**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:**



Corian Schmitz

**Title:** RECEIVING CLERK

# CERTIFICATE OF DISPOSAL

**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 **322470/D394558** was received by U.S. Ecology, Inc., on **12/13/2021**. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on **12/30/2021** in accordance with permits and laws regulating this facility.

**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:**

A handwritten signature in cursive script that reads "Corian Schmitz". The signature is written in black ink and is positioned above a solid horizontal line.

**Title:** RECEIVING CLERK



# CERTIFICATE OF DISPOSAL

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 **322470/D394558** was received by U.S. Ecology, Inc., on **12/13/2021**. The waste(s) were subsequently treated, if required by CFR Part 268 and U.S. Ecology's permits, and disposed of on **12/21/2021** in accordance with permits and laws regulating this facility.

**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

**Signature:**



A handwritten signature in cursive script that reads "Corian Schmitz". The signature is written in black ink and is positioned above a solid horizontal line.

**Title:** RECEIVING CLERK