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March 26, 2024  
File: 238000337.R14b

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**Reference: 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 *Site Characterization/Focused Feasibility Study Addendum*, dated March 26, 2024. 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**

A handwritten signature in blue ink, appearing to read "Bobby Thompson".

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Attachment: Stantec's *Site Characterization/Focused Feasibility Study Addendum*, dated March 26, 2024

- 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



## **Site Characterization/Focused Feasibility Study Addendum**

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

March 26, 2024

Prepared for:

ExxonMobil Environmental and Property  
Solutions Company and American Distributing  
Company

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## SITE CHARACTERIZATION/FOCUSED FEASIBILITY STUDY ADDENDUM

ExxonMobil ADC

March 26, 2024

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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 March 26, 2024
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 *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 Addendum supersedes Stantec's *Draft Site Characterization/Focused Feasibility Study Addendum*, dated May 25, 2023 (Stantec, 2023a) and *Revised Draft Site Characterization/Focused Feasibility Study Addendum*, dated June 30, 2023 (Stantec, 2023c).

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 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 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 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 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). After additional review by Ecology, Wood submitted a revised SC/FFS on January 13, 2022 (Wood, 2022). A final SC/FFS was submitted by WSP on May 12, 2023 (WSP, 2023); this final 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 Addendum to the May 2023 SC/FFS to address Ecology's February 2022 comments and accompany the final SC/FFS and the CAP.

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 SC/FFS and 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 CAP.

The Site-specific residual saturation remediation levels (Figure 1) will be used to ensure that excavation has been completed to the maximum extent practicable in accessible areas on the Site.



**Figure 1 Site-Specific Residual Saturation Remediation Levels in Soil**

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

## 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 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 SC/FFS for the Port property.
- Adjust the DCA to incorporate the additional amount of material to be removed/excavated.

The sections in the 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 is defined in Stantec's *ExxonMobil ADC Engineering Design Report*, dated March 26, 2024 (Stantec, 2024b).





## 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 *ExxonMobil ADC Cleanup Action Plan*, dated March 26, 2024 (Stantec, 2024a). A sampling and analysis plan will be prepared and included as an addendum to Site environmental covenants defining the duration, frequency, and locations for future MNA activities.
- Implementation of restrictive covenants.





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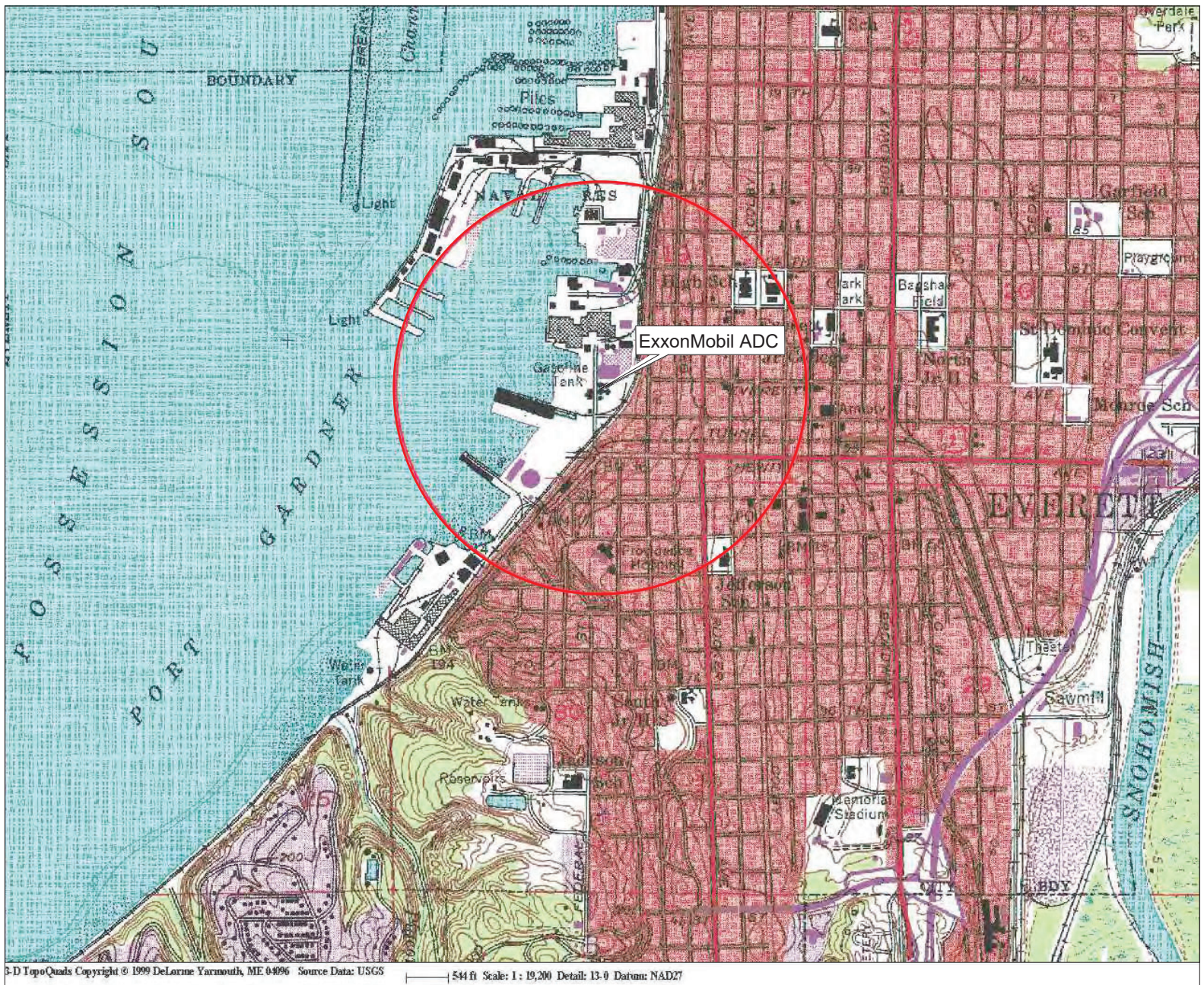
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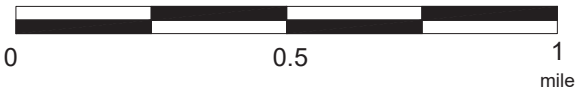
**EXPLANATION**



1/2-mile radius circle



**APPROXIMATE SCALE**



**SITE LOCATION MAP**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**PROJECT NO.**

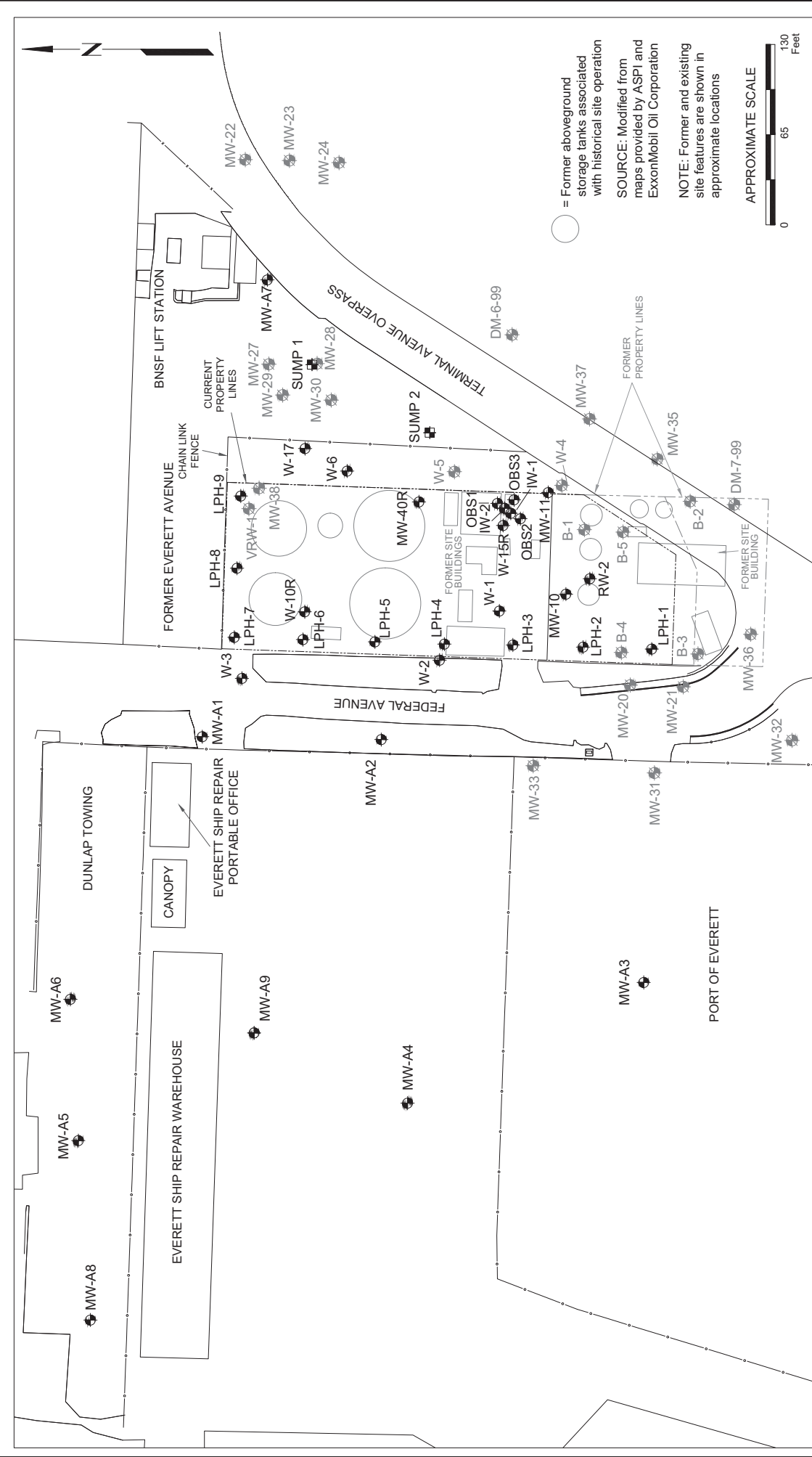
238000337

**PLATE**

1

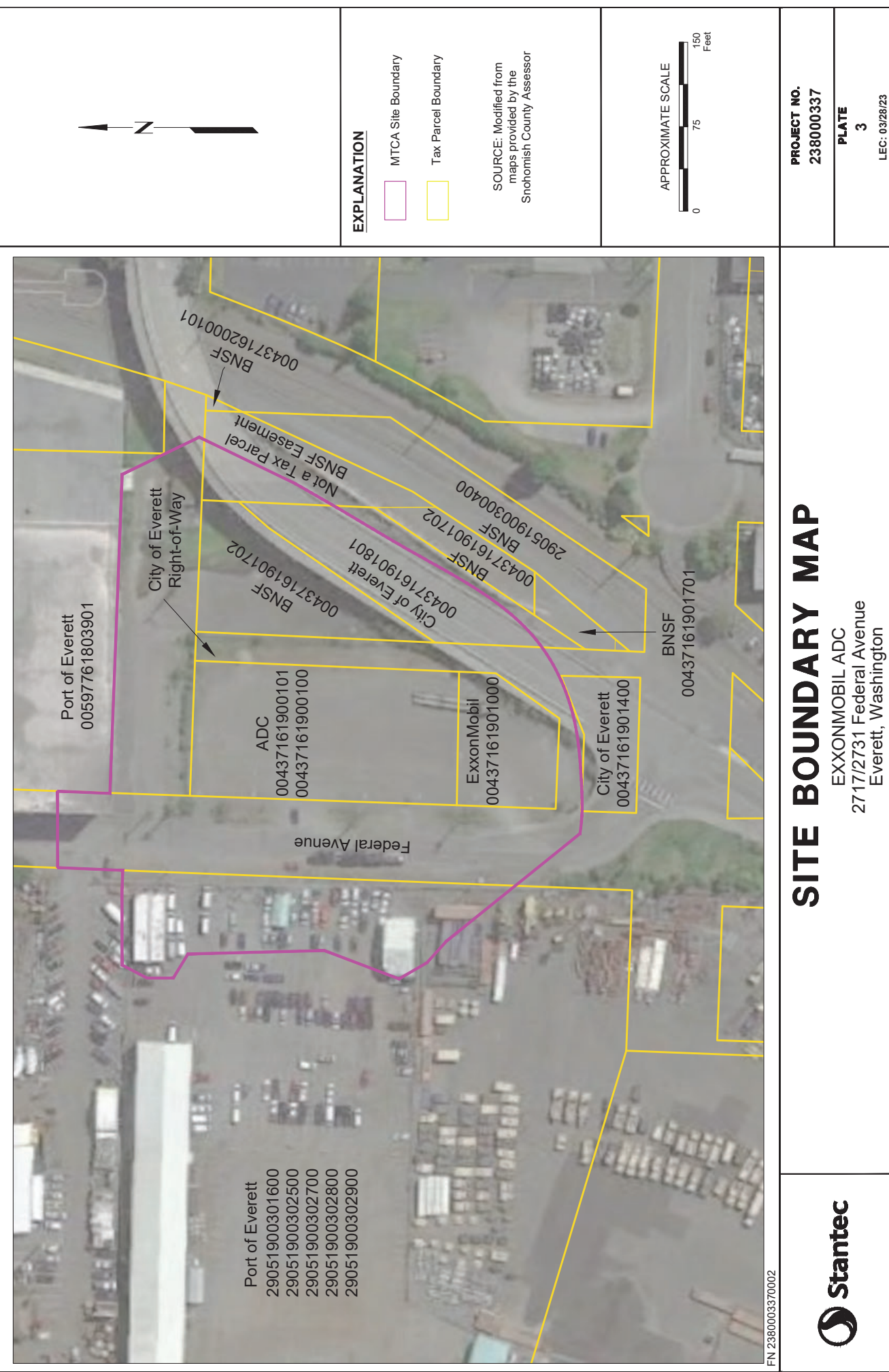
LEC: 01/24/23





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	<h1>GENERALIZED SITE PLAN</h1> <p>EXXOMOBIL ADC 2717/2731 Federal Avenue Everett, Washington</p>		<b>PROJECT NO.</b> 238000337
	<b>EXPLANATION</b> <ul style="list-style-type: none"> <li>MW-A9 Groundwater Monitoring Well</li> <li>SUMP 2 Groundwater Sump</li> <li>MW-38 Destroyed Groundwater Monitoring Well</li> <li>OBS1 Observation Well</li> </ul>	<b>PLATE</b> 2	LEC: 03/28/23



**EXPLANATION**

- MTCA Site Boundary
- Tax Parcel Boundary

SOURCE: Modified from maps provided by the Snohomish County Assessor

APPROXIMATE SCALE



**PROJECT NO.**  
238000337

**PLATE**  
3  
LEC: 03/28/23

**SITE BOUNDARY MAP**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington



FN 2380003370002

- 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



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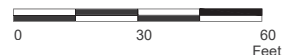
SOURCE: Modified from images provided by Google Earth

#### EXPLANATION

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

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

#### APPROXIMATE SCALE



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

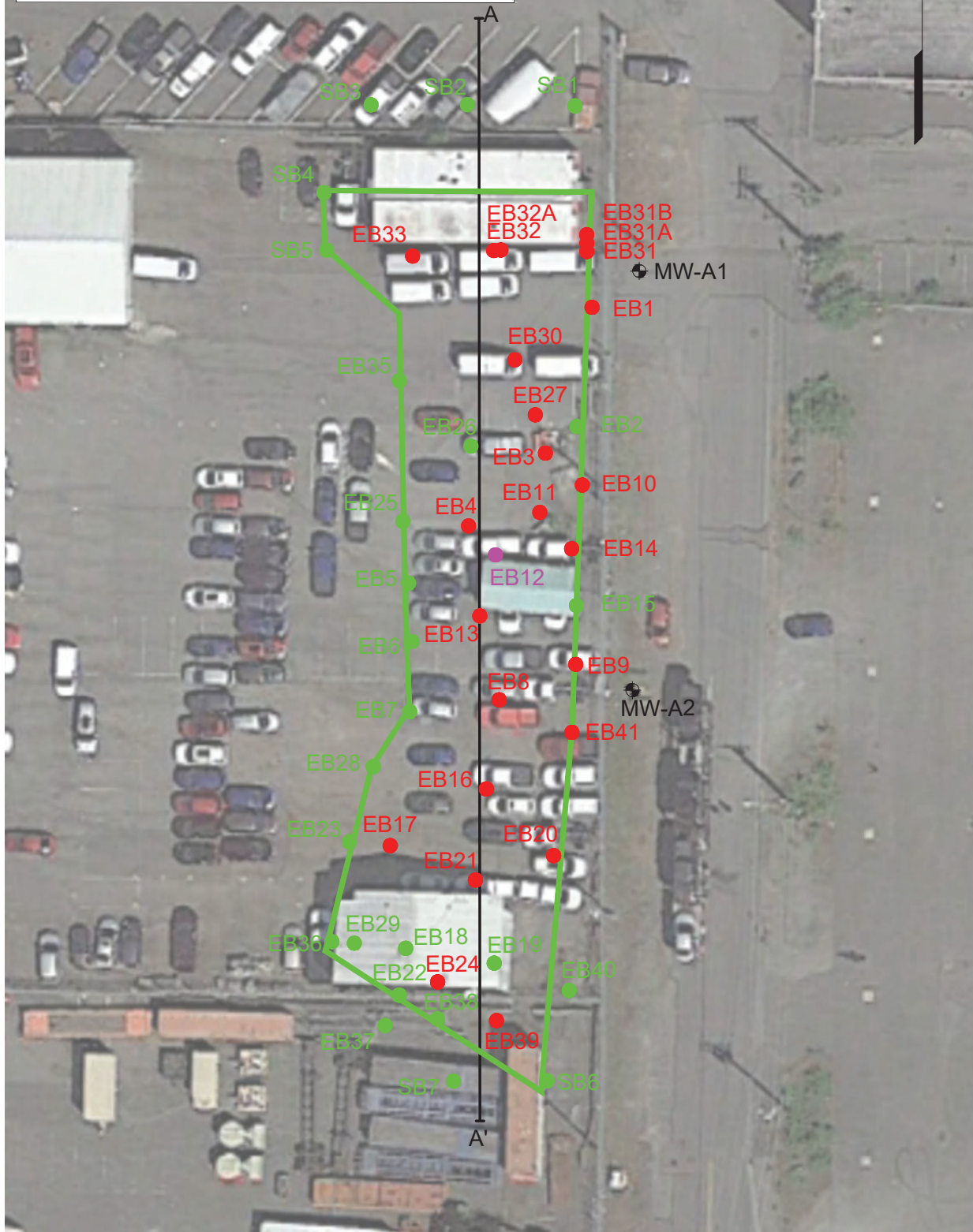
EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

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



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SOURCE: Modified from images provided by Google Earth

#### EXPLANATION

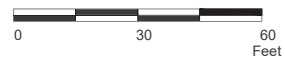
- MW-A2  
● Groundwater Monitoring Well
- EB41  
● Excavation Delineation Boring

A A'  
— Cross Section Traverse

BGS Below Ground Surface

— Defined Excavation Extents

#### 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



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SOURCE: Modified from images provided by Google Earth

#### EXPLANATION

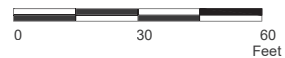
- MW-A2  
● Groundwater Monitoring Well
- EB41  
● Excavation Delineation Boring

A A'  
— Cross Section Traverse

BGS Below Ground Surface

— Defined-Excavation Extents

#### 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



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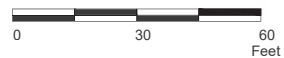
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#### EXPLANATION

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

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

#### APPROXIMATE SCALE



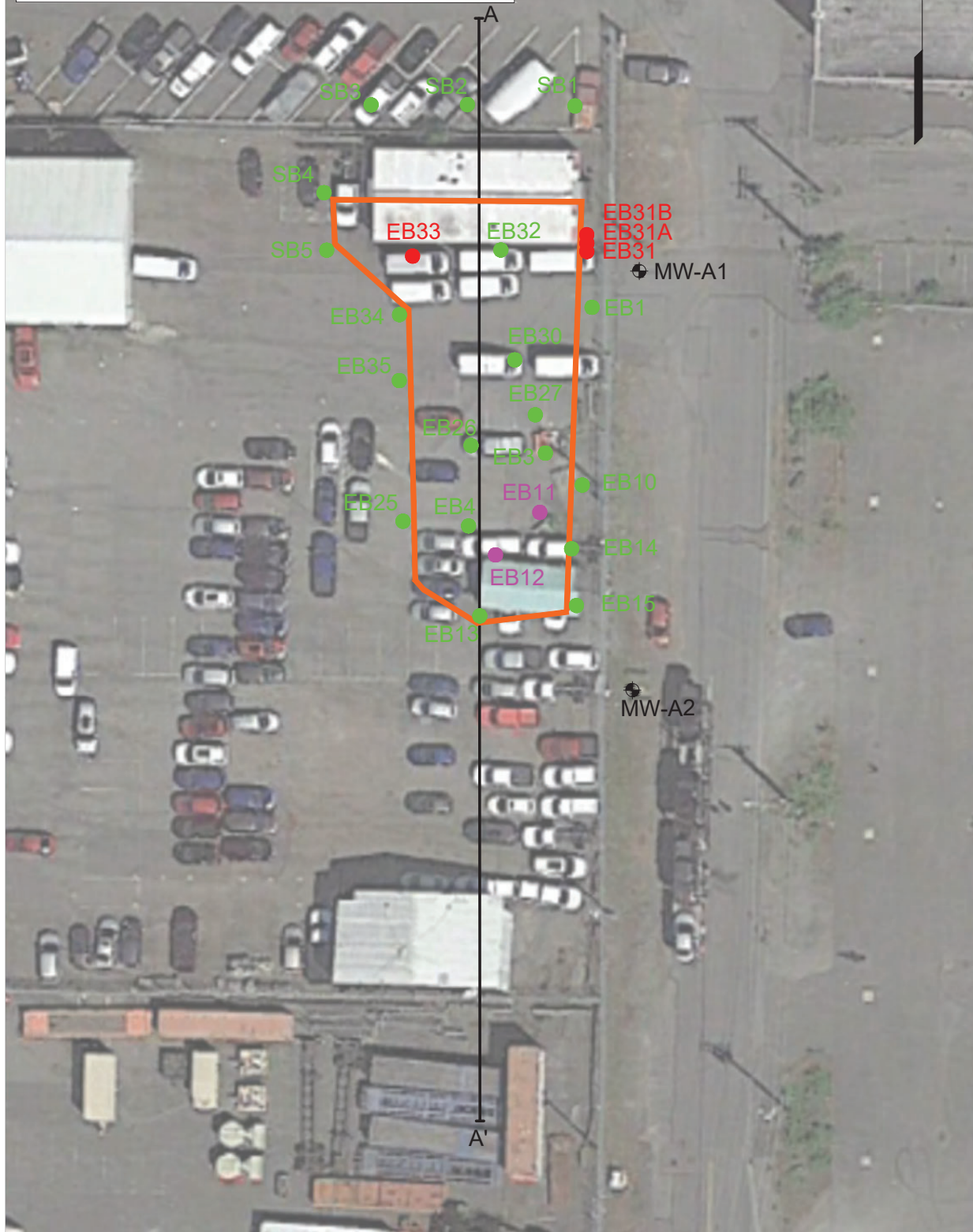
#### PORT OF EVERETT EXCAVATION DELINEATION MAP - 10 FEET BGS

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
- Numbers and Symbols in Magenta Indicate Light Non-Aqueous Phase Liquid (LNAPL) Observed at or Below 12.5 feet bgs; Analyte Concentrations Less than Residual Saturation Remediation Levels at or Below 12.5 feet bgs



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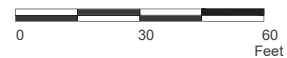
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#### EXPLANATION

- 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 - 12.5 FEET BGS

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

PROJECT NO.  
238000337

PLATE  
8  
LEC: 06/28/23





FN 2380003370002

SOURCE: Modified from images provided by Google Earth

<p><b>EXPLANATION</b></p> <p>MW-A2   Groundwater Monitoring Well</p> <p>EB41   Excavation Delineation Boring</p>	<p>A A   Cross Section Traverse</p> <p>BGS   Below Ground Surface</p> <p> Defined Excavation Extents</p>	<p><b>APPROXIMATE SCALE</b></p> <p>0 30 60  Feet</p>
	<p><b>PORT OF EVERETT EXCAVATION DELINEATION MAP - 15 FEET BGS</b></p> <p>EXXONMOBIL ADC  2717/2731 Federal Avenue  Everett, Washington</p>	<p><b>PROJECT NO.</b>  238000337</p> <p><b>PLATE</b>  9</p> <p>LEC: 06/28/23</p>



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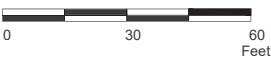
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**EXPLANATION**

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

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

**APPROXIMATE SCALE**



**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



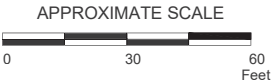
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SOURCE: Modified from images provided by Google Earth

**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

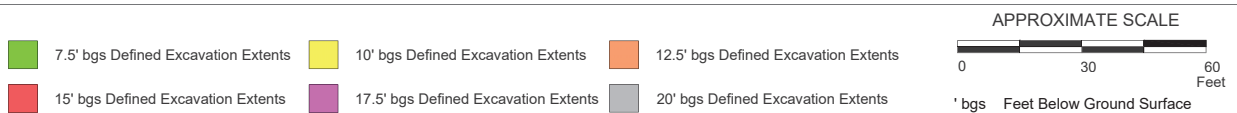
**PROJECT NO.**  
238000337

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



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SOURCE: Modified from images provided by Google Earth



# PORT OF EVERETT EXCAVATION EXTENTS BY DEPTH

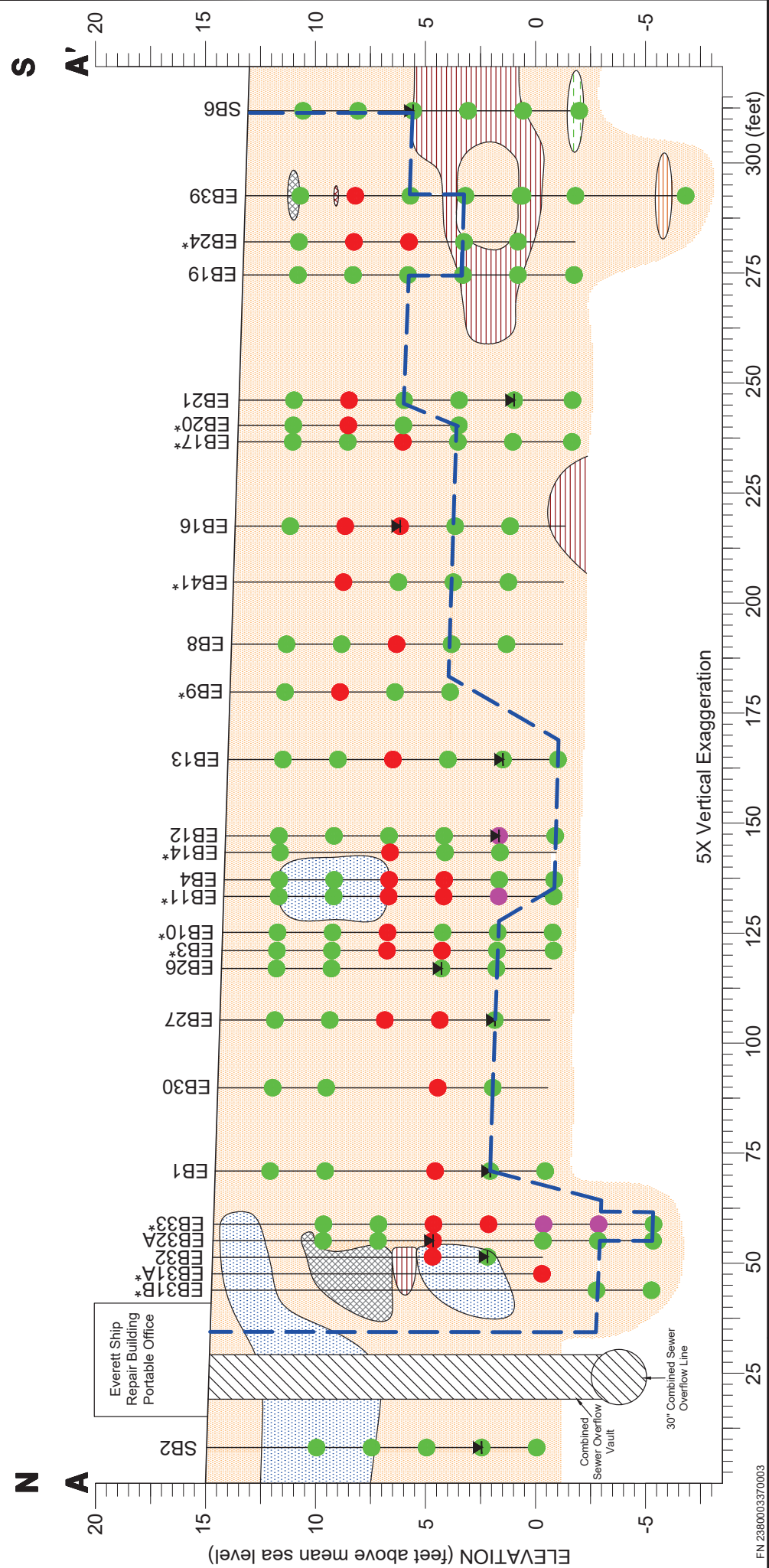
EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington


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





**PORT OF EVERETT CROSS SECTION N-S**  
 EXXONMOBIL ADC  
 2717/2731 Federal Avenue  
 Everett, Washington

**PROJECT**  
238000337

**PLATE**  
13

LEC: 02/27/23

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









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
- POWER
- POWER, COMMUNICATION, AND/OR SECURITY CAMERA POLE



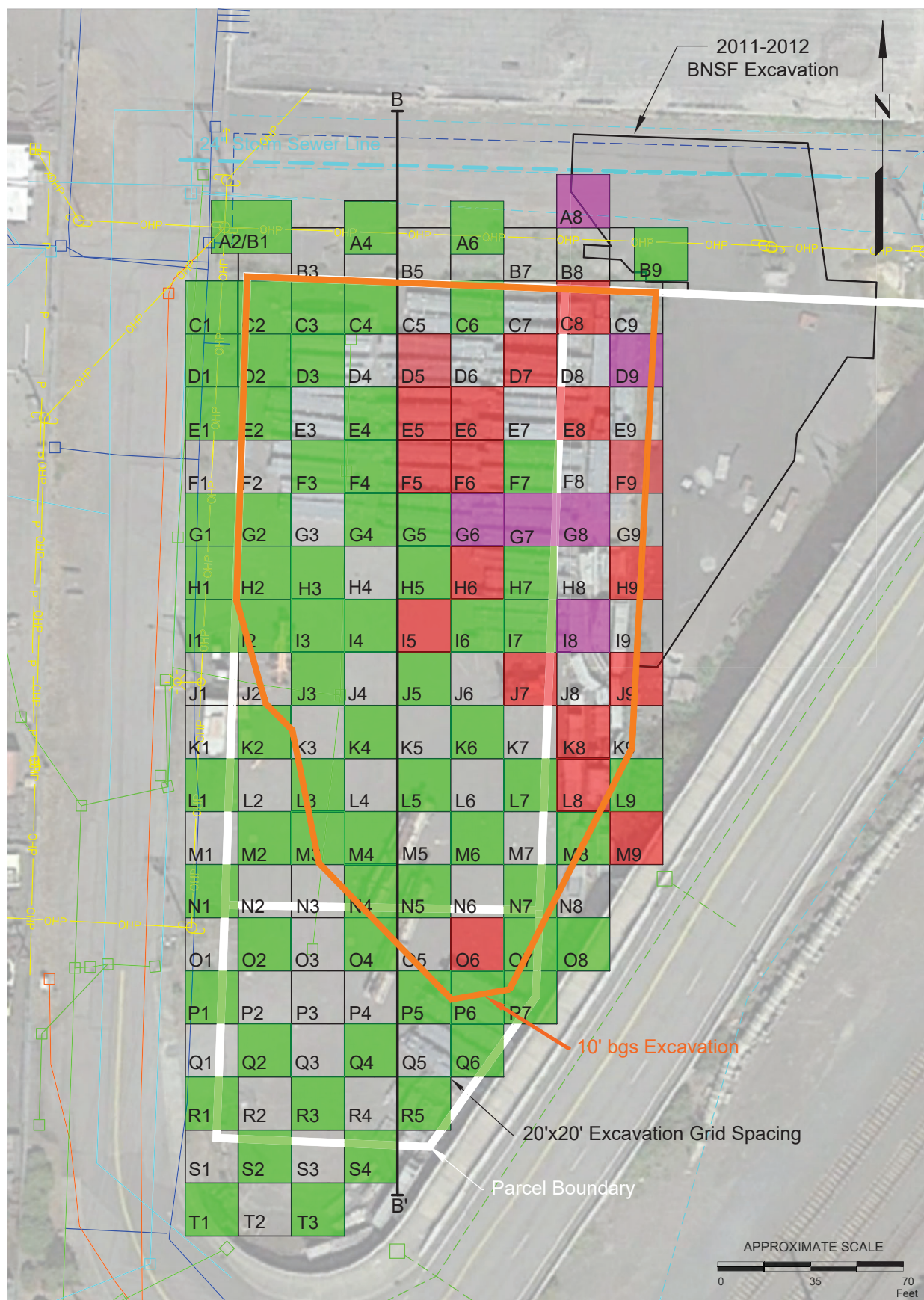
### EXXONMOBIL ADC EXCAVATION DELINEATION MAP - 7.5 FEET BGS

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

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

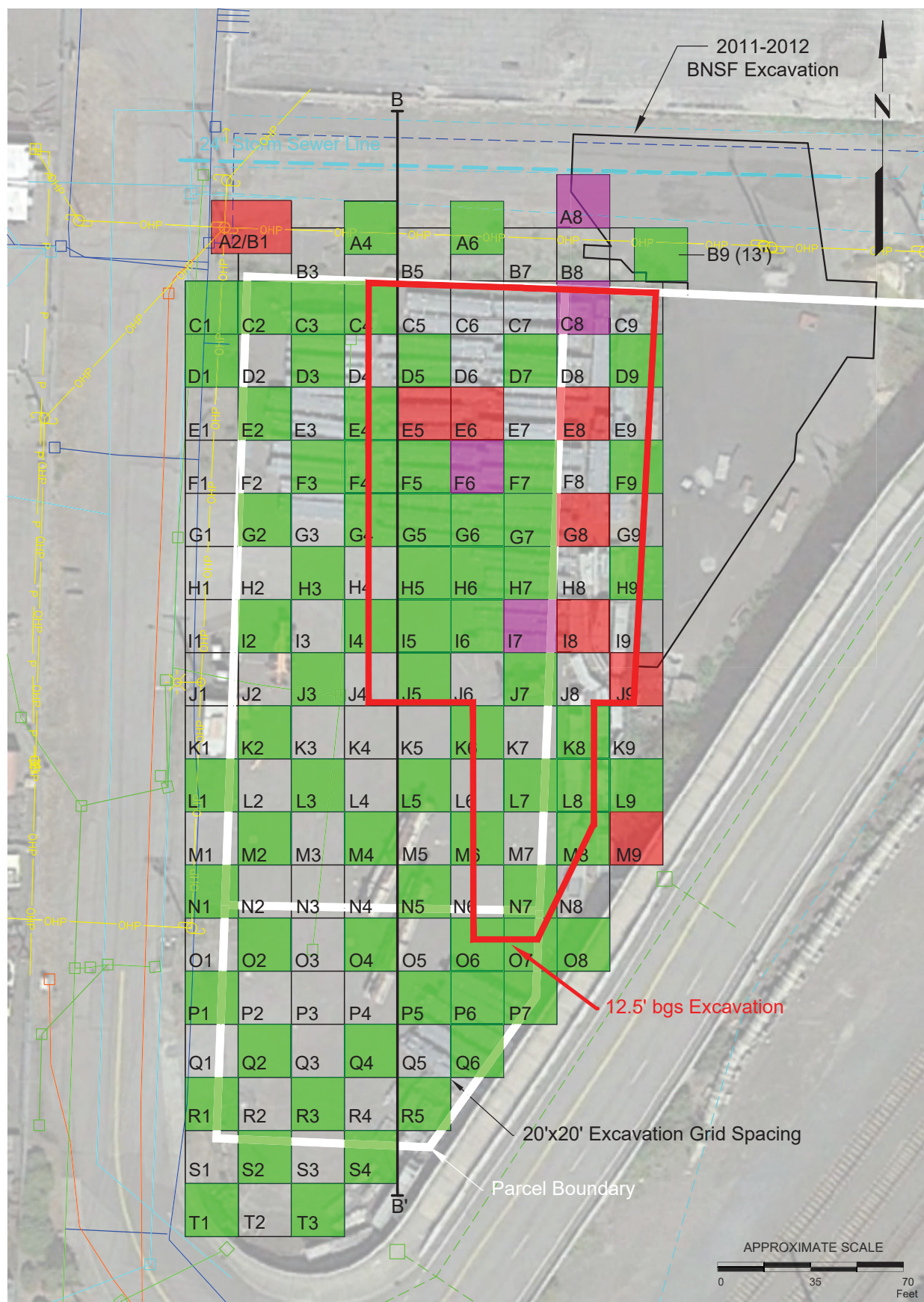


### EXXONMOBIL ADC EXCAVATION DELINEATION MAP - 10 FEET BGS

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

B B' Cross Section Traverse

BGS Below Ground Surface

**UTILITIES LEGEND**

- ELECTRICAL
- WATER
- STORM DRAIN
- 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

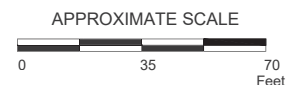
LEC: 06/27/23



SOURCE: Modified from Images Provided by Google Earth

 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



EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

<b>PROJECT NO.</b>	238000337
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**PLATE**  
22  
LEC: 06/28/23

N

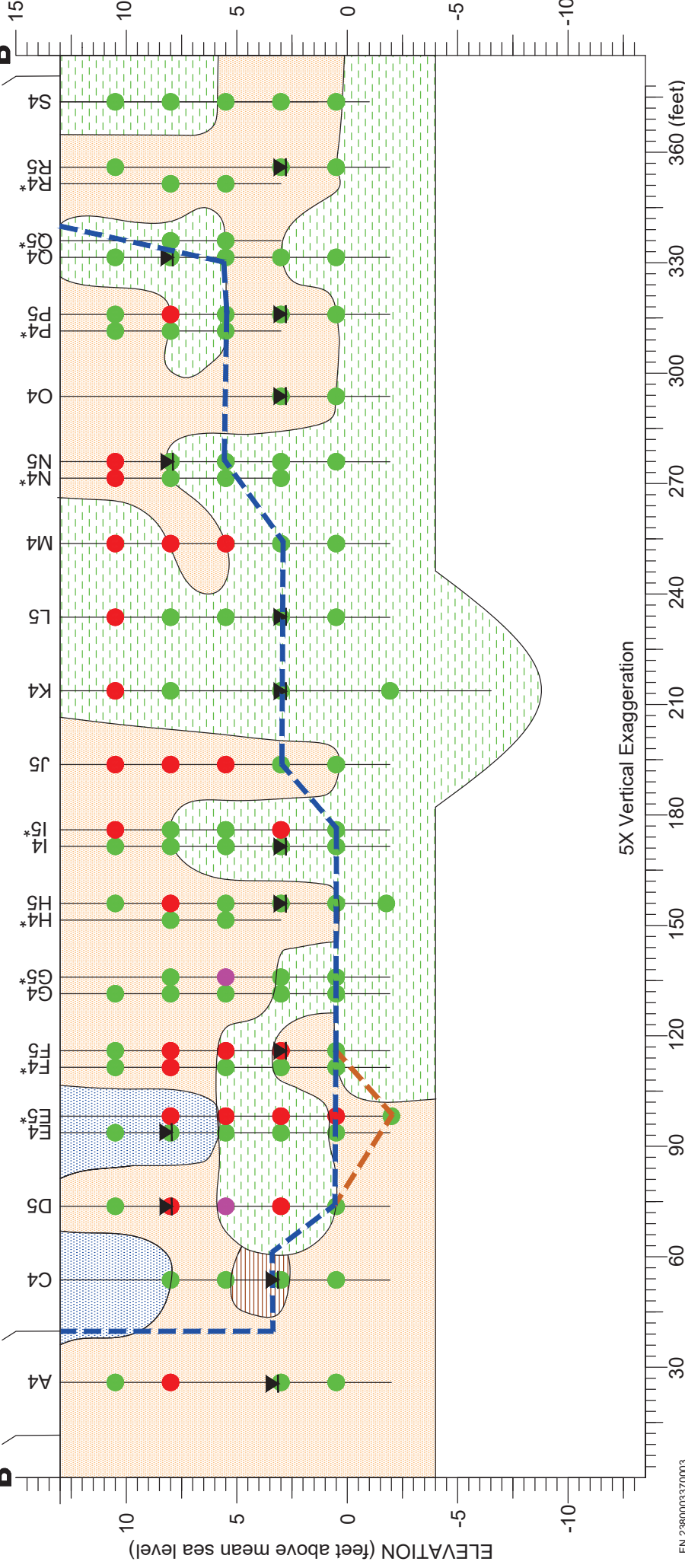
\* = No geologic logging was conducted at borings E5, F4, G5, H4, I5, N4, P4, Q5, and R4

S

Former Everett  
Avenue  
B

ADC / Port of Everett  
Property Boundary

Terminal Avenue  
Overpass  
B'



FN 238000337003



**Stantec**

**EXXONMOBIL ADC CROSS SECTION N-S**

EXXONMOBIL ADC  
2717/2731 Federal Avenue  
Everett, Washington

**EXPLANATION**

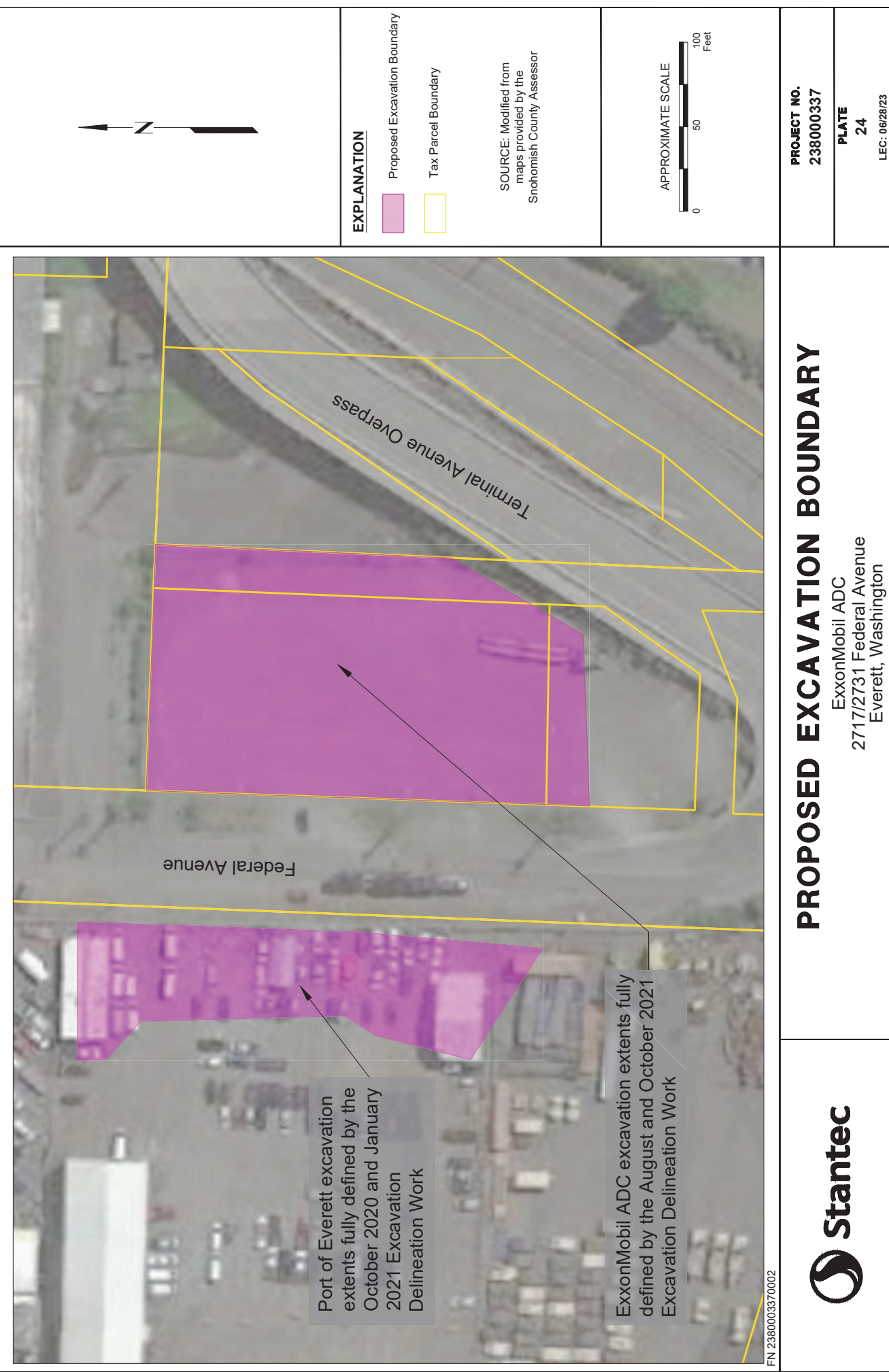
- Water Level Encountered During Drilling
- Hydrocarbon Concentrations in Soil Less Than Site-Specific Residual Saturation Remediation Levels
- Hydrocarbon Concentrations in Soil Greater Than Site-Specific Residual Saturation Remediation Levels
- LNAPL Observed During Drilling
- Proposed Excavation Extents
- Proposed In-Situ Soil Stabilization Extents

- Coarse-grained Gravelly Sediments (GW, GF, 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





**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	12,000	<250
S-10-EB10	EB10	10/14/20	10	--	<10	4,300	<250
S-12.5-EB10	EB10	10/14/20	12.5	--	<10	<50	<250
S-15-EB10	EB10	10/14/20	15	--	<10	<50	<250
S-2.5-EB11	EB11	10/12/20	2.5	--	<10	<50	550
S-5-EB11	EB11	10/12/20	5	--	<100	2,400	<250
S-7.5-EB11	EB11	10/12/20	7.5	Yes	<100	44,000	2,700
S-10-EB11	EB11	10/12/20	10	Yes	<100	11,000	1,300
S-12.5-EB11	EB11	10/12/20	12.5	Yes	<10	370	<250
S-15-EB11	EB11	10/12/20	15	--	<10	<50	<250
S-2.5-EB12	EB12	10/12/20	2.5	--	<10	<50	<250
S-5-EB12	EB12	10/12/20	5	--	<10	160	<250
S-7.5-EB12	EB12	10/12/20	7.5	--	<10	3,600	<250
S-10-EB12	EB12	10/12/20	10	--	<100	3,000	<250
S-12.5-EB12	EB12	10/12/20	12.5	Yes	<100	2,000	<250
S-15-EB12	EB12	10/12/20	15	--	<10	460	<250
S-2.5-EB13	EB13	10/14/20	2.5	--	<10	<50	<250
S-5-EB13	EB13	10/14/20	5	--	<50	1,400	1,800
S-7.5-EB13	EB13	10/14/20	7.5	--	190	11,000	1,800
S-10-EB13	EB13	10/14/20	10	--	<10	320	<250
S-12.5-EB13	EB13	10/14/20	12.5	--	<10	<50	<250
S-15-EB13	EB13	10/14/20	15	--	<10	<50	<250
S-2.5-EB14	EB14	10/14/20	2.5	--	<10	<50	<250
S-7.5-EB14	EB14	10/14/20	7.5	--	<10	5,000	6,900
S-10-EB14	EB14	10/14/20	10	--	<10	4,100	1,500
S-12.5-EB14	EB14	10/14/20	12.5	--	<10	<50	<250
S-2.5-EB15	EB15	10/14/20	2.5	--	<10	<50	<250
S-5-EB15	EB15	10/14/20	5	--	<10	1,100	2,000
S-7.5-EB15	EB15	10/14/20	7.5	--	19	2,200	260
S-10-EB15	EB15	10/14/20	10	--	<10	<50	<250
S-12.5-EB15	EB15	10/14/20	12.5	--	<10	<50	<250
S-2.5-EB16	EB16	10/13/20	2.5	--	<10	<50	<250
S-5-EB16	EB16	10/13/20	5	--	<100	4,800	1,100
S-7.5-EB16	EB16	10/13/20	7.5	--	<100	9,700	3,900
S-10-EB16	EB16	10/13/20	10	--	<10	170	<250
S-12.5-EB16	EB16	10/13/20	12.5	--	<10	<50	<250
S-2.5-EB17	EB17	10/13/20	2.5	--	<10	<50	<250
S-5-EB17	EB17	10/13/20	5	--	<10	<50	<250
S-7.5-EB17	EB17	10/13/20	7.5	--	11	33,000	<250
S-10-EB17	EB17	10/13/20	10	--	<50	2,600	<250
S-12.5-EB17	EB17	10/13/20	12.5	--	<10	<50	<250
S-15-EB17	EB17	10/13/20	15	--	<10	<50	<250
Site-Specific 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  
Page 4 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-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	5,600	<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	9,300	6,700
S-7.5-EB41	EB41	01/27/21	7.5	--	<10	630	310
S-10-EB41	EB41	01/27/21	10	--	<10	<50	<250
S-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
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-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 1**  
**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 - March 26, 2024:</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	7,400	650
S-10-A2	A2	08/11/21	10	--	76	260	44
S-12.5-A2	A2	08/11/21	12.5	Yes	570	11,000	2,200
S-14.5-A2	A2	08/11/21	14.5	--	<0.13	<6.3	11
S-2.5-A4	A4	08/11/21	2.5	--	<0.24	<5.5	110
S-5-A4	A4	08/11/21	5	--	300	8,700	1,500
S-10-A4	A4	08/11/21	10	--	72	270	74
S-12.5-A4	A4	08/11/21	12.5	--	0.42	<7.8	<7.8
S-2.5-A6	A6	08/12/21	2.5	Yes	520	7,300	1,600
S-5-A6	A6	08/12/21	5	Yes	220	1,700	410
S-7.5-A6	A6	08/12/21	7.5	Yes	450	6,700	3,500
S-10-A6	A6	08/12/21	10	--	5.2	8.1	11
S-12.5-A6	A6	08/12/21	12.5	--	0.40	83	55
S-2.5-A8	A8	08/16/21	2.5	--	20	69	29
S-10-A8	A8	08/16/21	10	Yes	160	580	260
S-12.5-A8	A8	08/16/21	12.5	Yes	100	630	330
S-14.5-A8	A8	08/16/21	14.5	--	1.6	85	48
S-2.5-B1	B1	08/11/21	2.5	--	<0.25	<5.4	6.0
S-5-B1	B1	08/11/21	5	--	56	6,300	1,600
S-7.5-B1	B1	08/11/21	7.5	--	5.4	20	17
S-10-B1	B1	08/11/21	10	--	0.42	<7.2	<7.2
S-12.5-B1	B1	08/11/21	12.5	--	0.28	<6.1	<6.1
S-2.5-B9	B9	08/12/21	2.5	--	0.60	23	44
S-5-B9	B9	08/12/21	5	--	8.0	110	150
S-7.5-B9	B9	08/12/21	7.5	--	6.9	89	60
S-10-B9	B9	08/12/21	10	--	35	160	110
S-12.5-B9	B9	08/12/21	12.5	Yes	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 1**  
**EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**  
ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
Page 2 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 - March 24, 2024 (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 1**  
**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 - March 24, 2024 (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 1**  
**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 - March 24, 2024 (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	7,200	2,600
S-2.5-F3	F3	08/10/21	2.5	--	300	6,500	2,500
S-5-F3	F3	08/10/21	5	--	360	1,400	560
S-10-F3	F3	08/10/21	10	--	<0.21	<6.2	19
S-12.5-F3	F3	08/10/21	12.5	--	<0.28	<6.8	7.8
S-2.5-F4	F4	10/13/21	2.5	--	180	570	200
S-5-F4	F4	10/13/21	5	--	560	11,000	800
S-7.5-F4	F4	10/13/21	7.5	--	0.25	<6.0	<6.0
S-10-F4	F4	10/13/21	10	--	<0.25	<6.0	<6.0
S-12.5-F4	F4	10/13/21	12.5	--	<1.7	<40	55
S-2.5-F5	F5	08/10/21	2.5	--	310	500	270
S-5-F5	F5	08/10/21	5	Yes	1,300	76,000	6,200
S-7.5-F5	F5	08/10/21	7.5	--	1,400	20,000	2,000
S-10-F5	F5	08/10/21	10	--	870	21,000	2,100
S-12.5-F5	F5	08/10/21	12.5	--	1.8	<16	46
S-5-F6	F6	10/13/21	5	--	150	9,600	2,400
S-7.5-F6	F6	10/13/21	7.5	--	520	22,000	3,100
S-10-F6	F6	10/13/21	10	Yes	560	62,000	6,200
S-12.5-F6	F6	10/13/21	12.5	Yes	92	3,200	760
S-15-F6	F6	10/13/21	15	--	<0.73	<24	53
S-2.5-F7	F7	08/10/21	2.5	--	66	160	110
S-5-F7	F7	08/10/21	5	--	540	32,000	5,800
S-7.5-F7	F7	08/10/21	7.5	--	340	65,000	15,000
S-10-F7	F7	08/10/21	10	--	330	1,400	320
S-12.5-F7	F7	08/10/21	12.5	--	12	480	170
S-2.5-F9	F9	08/10/21	2.5	--	28	140	7.9
S-2.5-F9 DUP <sup>c</sup>	F9	08/10/21	2.5	--	27	120	<5.6
S-5-F9	F9	08/10/21	5	--	510	12,000	7,000
S-7.5-F9	F9	08/10/21	7.5	--	200	630	190
S-10-F9	F9	08/10/21	10	--	260	16,000	5,400
S-10-F9 DUP	F9	08/10/21	10	--	470	13,000	5,300
S-12.5-F9	F9	08/10/21	12.5	--	4.4	270	210
S-2.5-G1	G1	10/13/21	2.5	--	<0.22	100	330
S-5-G1	G1	10/13/21	5	--	<0.19	6.8	13
S-7.5-G1	G1	10/13/21	7.5	Yes	610	7,800	3,700
S-10-G1	G1	10/13/21	10	--	<0.28	<11	<11
Site-Specific Residual Saturation Remediation Levels					2,470	4,800	5,810



**TABLE 1**  
**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 - March 24, 2024 (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	5,600	1,600
S-5-G3	G3	10/13/21	5	--	7.5	2,400	680
S-7.5-G3	G3	10/13/21	7.5	--	<0.28	<5.4	<5.4
S-2.5-G4	G4	08/10/21	2.5	--	110	2,800	1,400
S-5-G4	G4	08/10/21	5	--	250	250	130
S-7.5-G4	G4	08/10/21	7.5	--	12	12	77
S-10-G4	G4	08/10/21	10	--	96	68	150
S-12.5-G4	G4	08/10/21	12.5	--	<1.3	<20	100
S-5-G5	G5	10/13/21	5	--	190	4,400	1,100
S-7.5-G5	G5	10/13/21	7.5	Yes	110	1,600	810
S-10-G5	G5	10/13/21	10	--	280	210	150
S-12.5-G5	G5	10/13/21	12.5	--	3.3	760	480
S-2.5-G6	G6	08/10/21	2.5	--	280	1,700	530
S-5-G6	G6	08/10/21	5	--	260	1,100	350
S-7.5-G6	G6	08/10/21	7.5	--	170	1,800	610
S-10-G6	G6	08/10/21	10	Yes	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	6,800	2,500
S-5-G7	G7	10/13/21	5	--	95	6,500	2,000
S-7.5-G7	G7	10/13/21	7.5	--	240	8,200	1,800
S-10-G7	G7	10/13/21	10	Yes	190	4,300	1,500
S-12.5-G7	G7	10/13/21	12.5	--	9.5	85	<41
S-15-G7	G7	10/13/21	15	--	<1.0a	56	120
S-2.5-G8	G8	08/10/21	2.5	--	120	380	27
S-5-G8	G8	08/10/21	5	--	230	350	30
S-7.5-G8	G8	08/10/21	7.5	Yes	1,400	5,000	960
S-10-G8	G8	08/10/21	10	Yes	1,400	2,700	550
S-12.5-G8	G8	08/10/21	12.5	--	2,400	12,000	2,900
S-15-G8A	G8A	10/12/21	15	Yes	2,200	12,000	3,000
S-17.5-G8A	G8A	10/12/21	17.5	Yes	2,900	29,000	7,100
S-20-G8A	G8A	10/12/21	20	--	<1.6	<110	730
S-2.5-H1	H1	10/13/21	2.5	--	<0.28	<25	160
S-5-H1	H1	10/13/21	5	--	<0.24	900	1,300
S-7.5-H1	H1	10/13/21	7.5	Yes	140	4,000	360
S-10-H1	H1	10/13/21	10	--	<0.77	<20	35
S-2.5-H2	H2	10/13/21	2.5	--	76	2,200	780
S-5-H2	H2	10/13/21	5	--	270	1,700	680
S-7.5-H2	H2	10/13/21	7.5	--	870	6,200	920
Site-Specific Residual Saturation Remediation Levels					2,470	4,800	5,810

**TABLE 1**  
**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 - March 24, 2024 (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 1**  
**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 - March 24, 2024 (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	7,400	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	7,800	<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	Yes	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	6,900	1,700
S-5-I8	I8	08/10/21	5	--	2,100	8,300	1,500
S-7.5-I8	I8	08/10/21	7.5	--	57	1,100	280
S-10-I8	I8	08/10/21	10	Yes	1,400	4,300	1,800
S-12.5-I8	I8	08/10/21	12.5	--	1,000	10,000	5,600
S-15-I8A	I8A	10/13/21	15	--	<1.9	<34	<34
S-2.5-J1	J1	10/13/21	2.5	--	<0.30	2,100	5,700
S-5-J1	J1	10/13/21	5	--	580	6,200	490
S-7.5-J1	J1	10/13/21	7.5	--	8.0	15	<6.3
S-2.5-J3	J3	08/11/21	2.5	--	4.0	7,600	3,800
S-5-J3	J3	08/11/21	5	--	130	3,600	810
S-7.5-J3	J3	08/11/21	7.5	--	210	7,900	750
S-10-J3	J3	08/11/21	10	--	160	380	140
S-12.5-J3	J3	08/11/21	12.5	--	<0.84	93	73
S-2.5-J5	J5	08/10/21	2.5	--	390	7,800	2,800
S-5-J5	J5	08/10/21	5	--	2,100	55,000	8,200
S-5-J5 DUP	J5	08/10/21	5	--	1,600	59,000	8,200
S-7.5-J5	J5	08/10/21	7.5	--	1,200	7,800	1,400
Site-Specific Residual Saturation Remediation Levels					2,470	4,800	5,810



**TABLE 1**  
**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 - March 24, 2024 (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 1**  
**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 - March 24, 2024 (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	8,600	2,500
S-5-L3	L3	08/17/21	5	--	<0.45	7,000	2,600
S-7.5-L3	L3	08/17/21	7.5	--	0.34	170	360
S-10-L3	L3	08/17/21	10	--	210	12	110
S-12.5-L3	L3	08/17/21	12.5	--	<0.58	<13	140
S-2.5-L5	L5	08/18/21	2.5	--	1,300	8,700	500
S-5-L5	L5	08/18/21	5	--	840	4,600	280
S-7.5-L5	L5	08/18/21	7.5	--	0.90	160	160
S-10-L5	L5	08/18/21	10	--	89	1,700	600
S-12.5-L5	L5	08/18/21	12.5	--	<1.3	<20	23
S-2.5-L7	L7	08/18/21	2.5	--	410	4,700	2,000
S-5-L7	L7	08/18/21	5	--	820	45,000	310
S-7.5-L7	L7	08/18/21	7.5	--	290	11,000	5,100
S-10-L7	L7	08/18/21	10	--	410	1,400	800
S-12.5-L7	L7	08/18/21	12.5	--	<2.0	<28	73
S-2.5-L8	L8	10/14/21	2.5	--	1.0	340b	200
S-5-L8	L8	10/14/21	5	--	3,900	22,000b	1,300
S-7.5-L8	L8	10/14/21	7.5	--	1,900	21,000b	890
S-10-L8	L8	10/14/21	10	Yes	320	13,000b	920
S-12.5-L8	L8	10/14/21	12.5	--	12	<49b	72
S-2-L9	L9	08/18/21	2	--	96	2,000	2,100
S-5-L9	L9	08/18/21	5	--	6.7	370	280
S-10-L9	L9	08/18/21	10	--	1,400	310	32
S-12.5-L9	L9	08/18/21	12.5	--	<2.0	<29	33
S-2.5-M1	M1	10/13/21	2.5	--	4.0	460	320
S-5-M1	M1	10/13/21	5	--	2,000	4,200	910
S-7.5-M1	M1	10/13/21	7.5	--	25	<6.7	<6.7
S-2.5-M2	M2	08/17/21	2.5	--	0.96	160	23
S-5-M2	M2	08/17/21	5	--	190	1,600	650
S-7.5-M2	M2	08/17/21	7.5	--	5.1	270	450
S-10-M2	M2	08/17/21	10	--	89	970	420
S-12.5-M2	M2	08/17/21	12.5	--	0.48	17	18
S-2.5-M3	M3	10/14/21	2.5	--	2,700	16,000	830
S-5-M3	M3	10/14/21	5	--	390	2,600	330
S-7.5-M3	M3	10/14/21	7.5	--	16	240	280
S-10-M3	M3	10/14/21	10	--	20	930	1,100
S-2.5-M4	M4	08/17/21	2.5	--	<0.29	13,000	2,200
S-5-M4	M4	08/17/21	5	--	1,100	7,900	1,400
S-7.5-M4	M4	08/17/21	7.5	--	<0.55	5,500	7,300
S-10-M4	M4	08/17/21	10	--	620	<6.9	13
S-12.5-M4	M4	08/17/21	12.5	--	1.0	<15	58
Site-Specific Residual Saturation Remediation Levels					2,470	4,800	5,810

**TABLE 1**  
**EXCAVATION DELINEATION SOIL ANALYTICAL RESULTS - EXXONMOBIL ADC**  
ExxonMobil ADC  
2717/2731 Federal Avenue  
Everett, Washington  
Page 10 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 - March 24, 2024 (continued):</b>							
S-2.5-M6	M6	08/18/21	2.5	--	1,500	10,000	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	--	3,400	27,000	1,300
S-5-M8	M8	08/18/21	5	--	1,200	250	14
S-7.5-M8	M8	08/18/21	7.5	--	490	1,300	340
S-10-M8	M8	08/18/21	10	--	740	100	11
S-12.5-M8	M8	08/18/21	12.5	--	6.0	<31	37
S-2.5-M9	M9	10/14/21	2.5	--	0.77	300b	460
S-5-M9	M9	10/14/21	5	--	4,600	5,700b	180
S-7.5-M9	M9	10/14/21	7.5	--	3,500	21,000b	1,100
S-10-M9	M9	10/14/21	10	--	2,900	35,000b	1,400
S-12.5-M9	M9	10/14/21	12.5	--	530	11,000b	1,700
S-15-M9	M9	10/14/21	15	--	46	26b	<17
S-17.5-M9	M9	10/14/21	17.5	--	0.97	<5.8b	<5.8
S-2.5-N1	N1	08/17/21	2.5	--	0.86	13	<5.7
S-5-N1	N1	08/17/21	5	--	730	160	140
S-10-N1	N1	08/17/21	10	--	1.8	14	13
S-12.5-N1	N1	08/17/21	12.5	--	<0.28	15	11
S-2.5-N3	N3	08/17/21	2.5	--	1,700H	930	9.5
S-5-N3	N3	08/17/21	5	--	880H	780	190
S-7.5-N3	N3	08/17/21	7.5	--	1.8	<6.2	<6.2
S-16-N3	N3	08/17/21	16	--	<0.28	<11	15
S-2.5-N4	N4	10/14/21	2.5	--	2,200	7,700	410
S-5-N4	N4	10/14/21	5	--	1,600	4,400	51
S-7.5-N4	N4	10/14/21	7.5	--	20	360	190
S-10-N4	N4	10/14/21	10	--	1.3	460	980
S-2.5-N5	N5	08/17/21	2.5	--	2,000	110,000	6,300
S-5-N5	N5	08/17/21	5	--	1,100H	820	51
S-7.5-N5	N5	08/17/21	7.5	--	0.87	<6.0	<6.0
S-10-N5	N5	08/17/21	10	--	9.4	32	<6.0
S-12.5-N5	N5	08/17/21	12.5	--	<0.98	<29	<29
S-2.5-N7	N7	08/17/21	2.5	--	36	6,100	2,300
S-5-N7	N7	08/17/21	5	--	1,200	1,600	37
S-7.5-N7	N7	08/17/21	7.5	--	9,500	24,000	1,000
S-10-N7	N7	08/17/21	10	--	1,400	4,400	1,800
S-12.5-N7	N7	08/17/21	12.5	--	4.4	320	190
S-2.5-O1	O1	10/14/21	2.5	--	<0.27	<51b	170
S-5-O1	O1	10/14/21	5	--	<0.25	<30b	77
S-7.5-O1	O1	10/14/21	7.5	--	3.7	14b	13
Site-Specific Residual Saturation Remediation Levels					2,470	4,800	5,810

**TABLE 1**  
**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 - March 24, 2024 (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	--	2,800	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	--	2,900	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	20,000b	790
S-10-O7	O7	10/14/21	10	--	110	200b	660
S-12.5-O7	O7	10/14/21	12.5	--	10	<53b	100
S-2.5-O8	O8	08/16/21	2.5	--	4,100	15,000	290
S-5-O8	O8	08/16/21	5	--	820	45,000	1,500
S-10-O8	O8	08/16/21	10	--	1,500	2,900	180
S-12.5-O8	O8	08/16/21	12.5	--	8.3	20	150
S-2.5-P1	P1	08/16/21	2.5	--	22	290	960
S-5-P1	P1	08/16/21	5	--	140	280	780
S-7.5-P1	P1	08/16/21	7.5	--	<0.56	<11	14
S-10-P1	P1	08/16/21	10	--	<0.76	460	840
S-12.5-P1	P1	08/16/21	12.5	--	<0.71	<12	12
S-2.5-P2	P2	10/14/21	2.5	--	0.23	310b	630
S-5-P2	P2	10/14/21	5	--	1,500	4,900b	1,600
S-7.5-P2	P2	10/14/21	7.5	--	2.9	120b	430
S-2.5-P3	P3	08/16/21	2.5	--	800	6,100	2,400
S-16-P3	P3	08/16/21	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	--	2,500	3,700	250
S-7.5-P5	P5	08/16/21	7.5	--	230	29	240
S-10-P5	P5	08/16/21	10	--	790	190	260
Site-Specific Residual Saturation Remediation Levels					2,470	4,800	5,810



**TABLE 1**  
**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 - March 24, 2024 (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 1**  
**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)
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**Stantec - Site Characterization/Focused Feasibility Study Addendum - March 24, 2024 (continued):**

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 1**  
**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)
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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 stylized with a large, sweeping "J" and a prominent "C".

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**





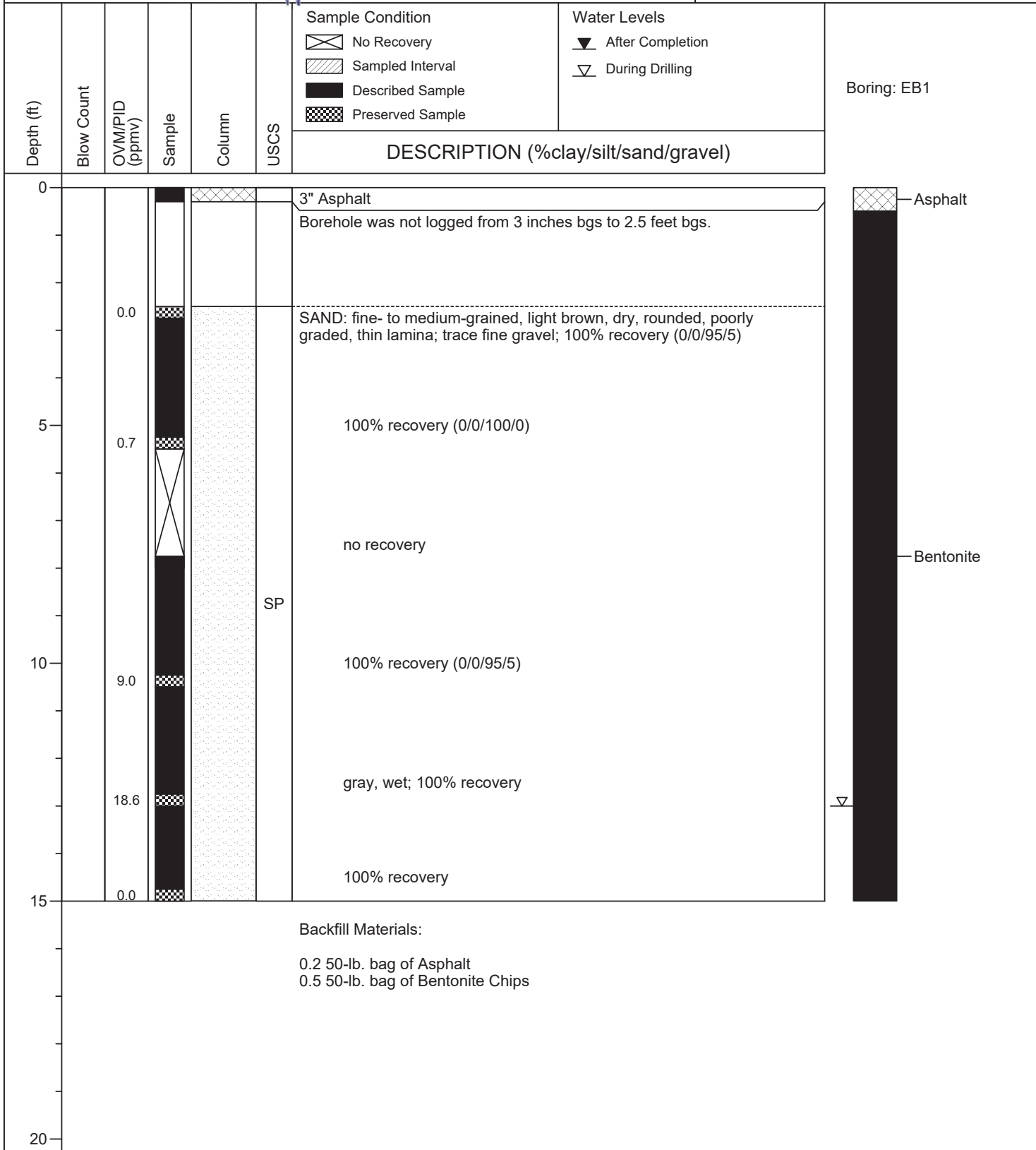


# BORING LOG EB1

(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: : 13' 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



(Page 1 of 1)



# 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	Boring: EB3
						<div>✕ No Recovery</div> <div>▨ Sampled Interval</div> <div>■ Described Sample</div> <div>▩ Preserved Sample</div>	<div>▼ After Completion</div> <div>▽ During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>▨ Asphalt</div> <div>■ Bentonite</div>
						Borehole was not logged from 3 inches bgs to 2.5 feet bgs.		
					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)		
					SW	SAND: fine- to coarse-grained, dark brown, moist; trace silt; 60% recovery (0/5/95/0)		
10						100% recovery		
						100% recovery		
15						100% recovery (0/5/90/5)		
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								

(Page 1 of 1)



(Page 1 of 1)



# 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	Boring: EB6
						<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.								
						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)		
5					GW	gray, well graded sand; trace silty clasts; 80% recovery (0/5/30/65)		
						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)		
10					SP	100% recovery (0/5/75/20)		
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.								
15								
20								



# 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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB7
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div> <div><div></div>Bentonite</div>
						Boring was not logged from 3 inches bgs to 5 feet bgs.		
						No recovery		
5					GW	GRAVEL with Sand: fine to coarse gravel, subrounded to subangular, well graded; fine- to coarse-grained sand, light brown, dry, well graded; trace silty clasts; 30% recovery (0/5/30/65)		
					ML	SILT: olive brown, damp, well consolidated; 30% recovery (0/100/0/0)		
10					SP	SAND: medium- to coarse-grained, damp, poorly graded, non-plastic; trace fine gravel, subangular; 80% recovery (0/5/90/5)		
						Backfill Materials:		
						0.2 50-lb. bag of Asphalt		
						0.5 50-lb. bag of Bentonite Chips		
						Note: PID unavailable for use during field work on 10/12/20.		
15								
20								

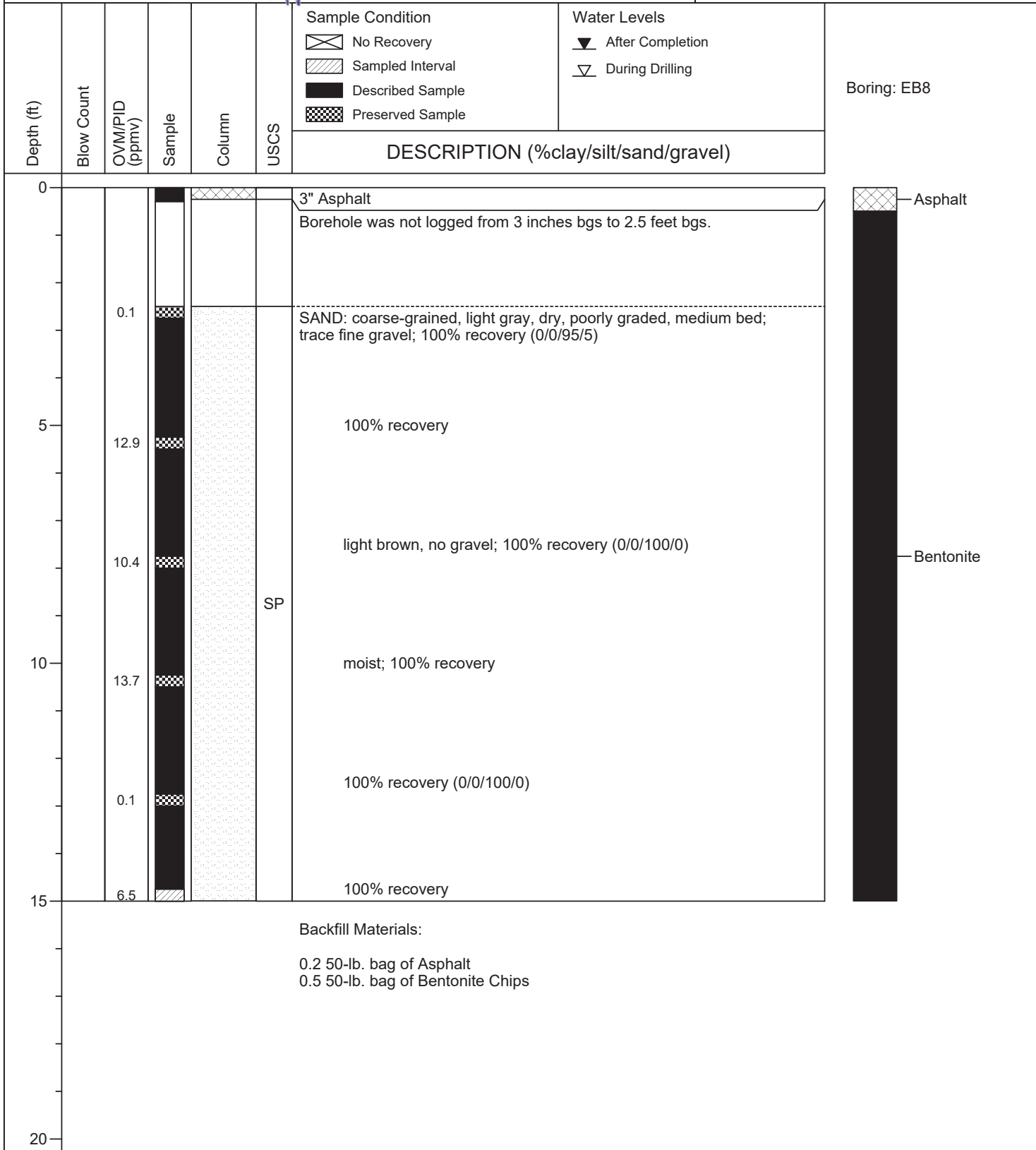


# BORING LOG EB8

(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*





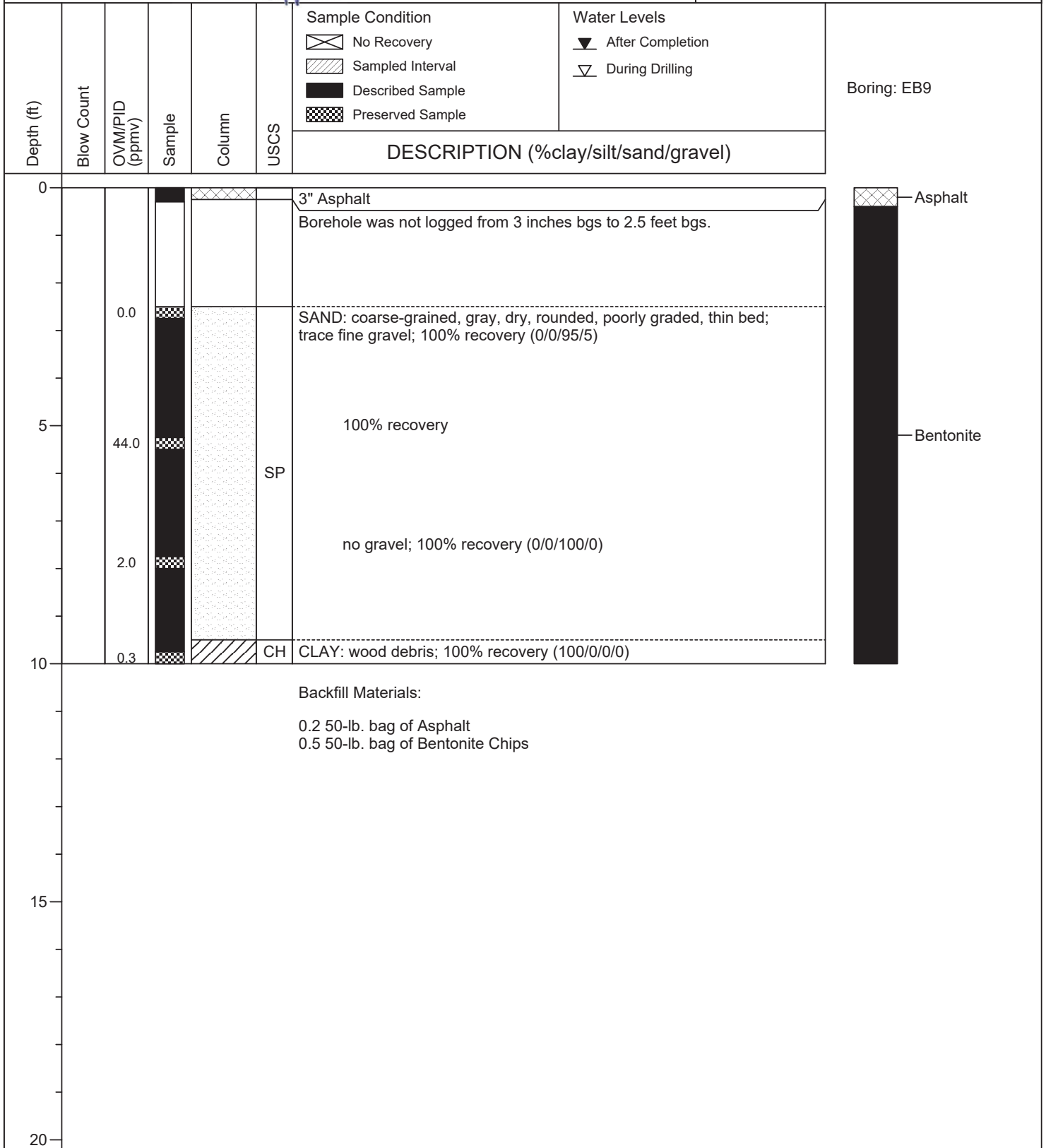


# BORING LOG EB9

(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: : 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



(Page 1 of 1)

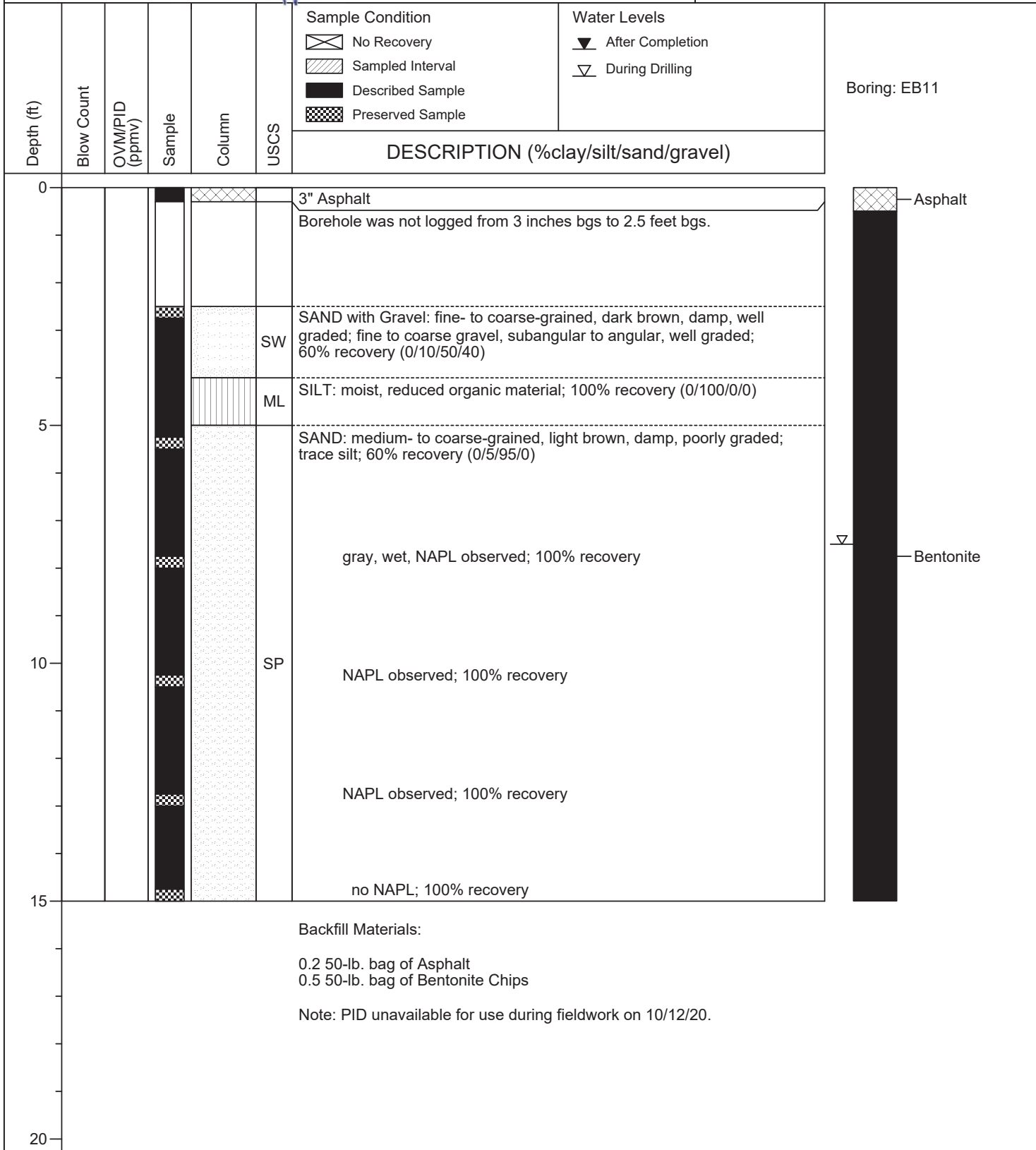


# BORING LOG EB11

(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*



(Page 1 of 1)



Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB13
						<div> <div></div> <div>No Recovery</div> </div> <div> <div></div> <div>Sampled Interval</div> </div> <div> <div></div> <div>Described Sample</div> </div> <div> <div></div> <div>Preserved Sample</div> </div>	<div> <div></div> <div>After Completion</div> </div> <div> <div></div> <div>During Drilling</div> </div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		
Borehole was not logged from 3 inches bgs to 2.5 feet bgs.								
0.6						SAND: coarse-grained, gray brown, dry, rounded, poorly graded; fine gravel; thin bed; 100% recovery (0/0/90/10)		
17.8						100% recovery		
212.5						damp; 100% recovery		
112.3					SP	100% recovery		
8.4						wet, 100% recovery		
0.7						100% recovery		
Backfill Materials:								
0.2 50-lb. bag of Asphalt								
0.5 50-lb. bag of Bentonite Chips								

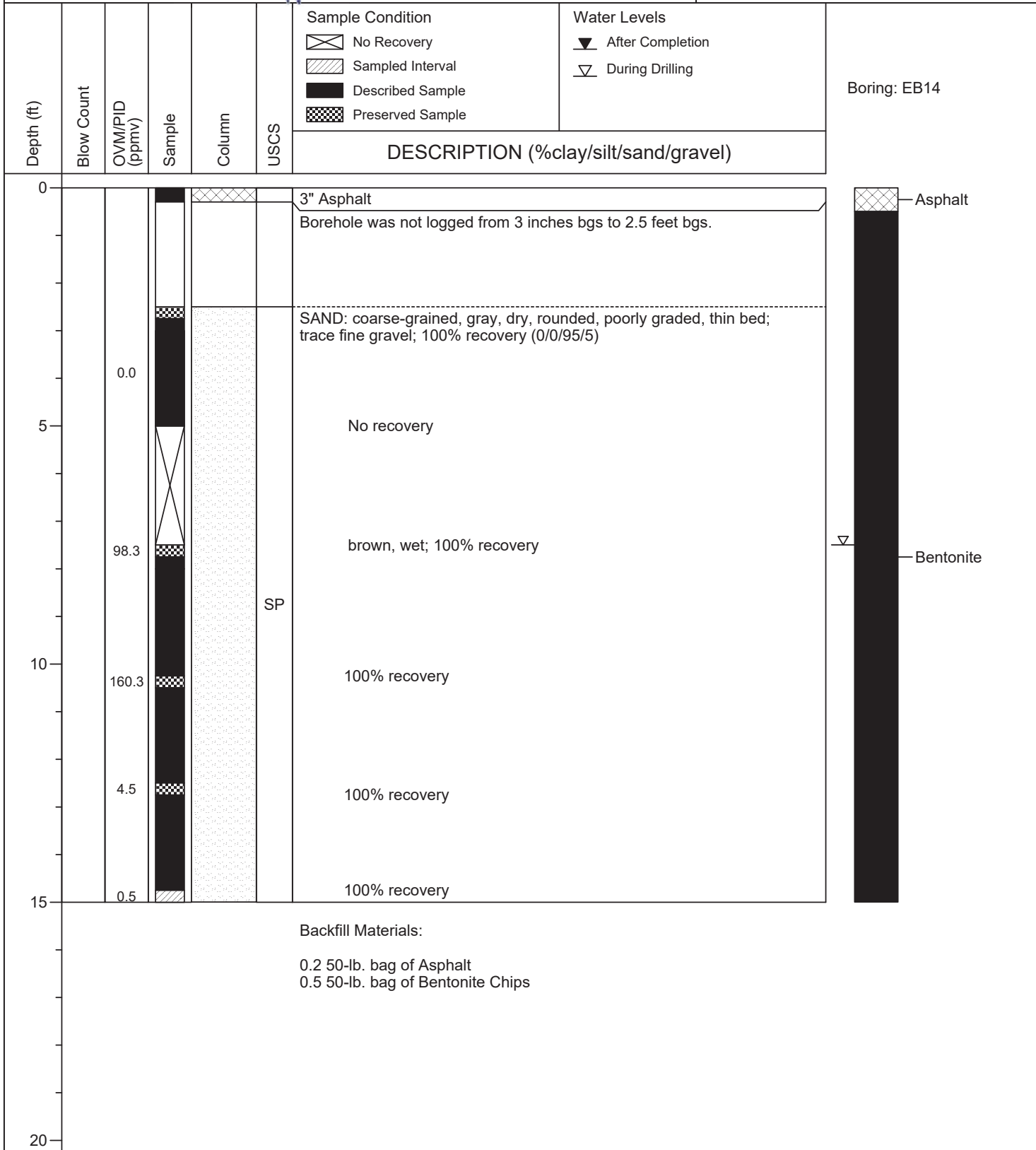


# BORING LOG EB14

(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*



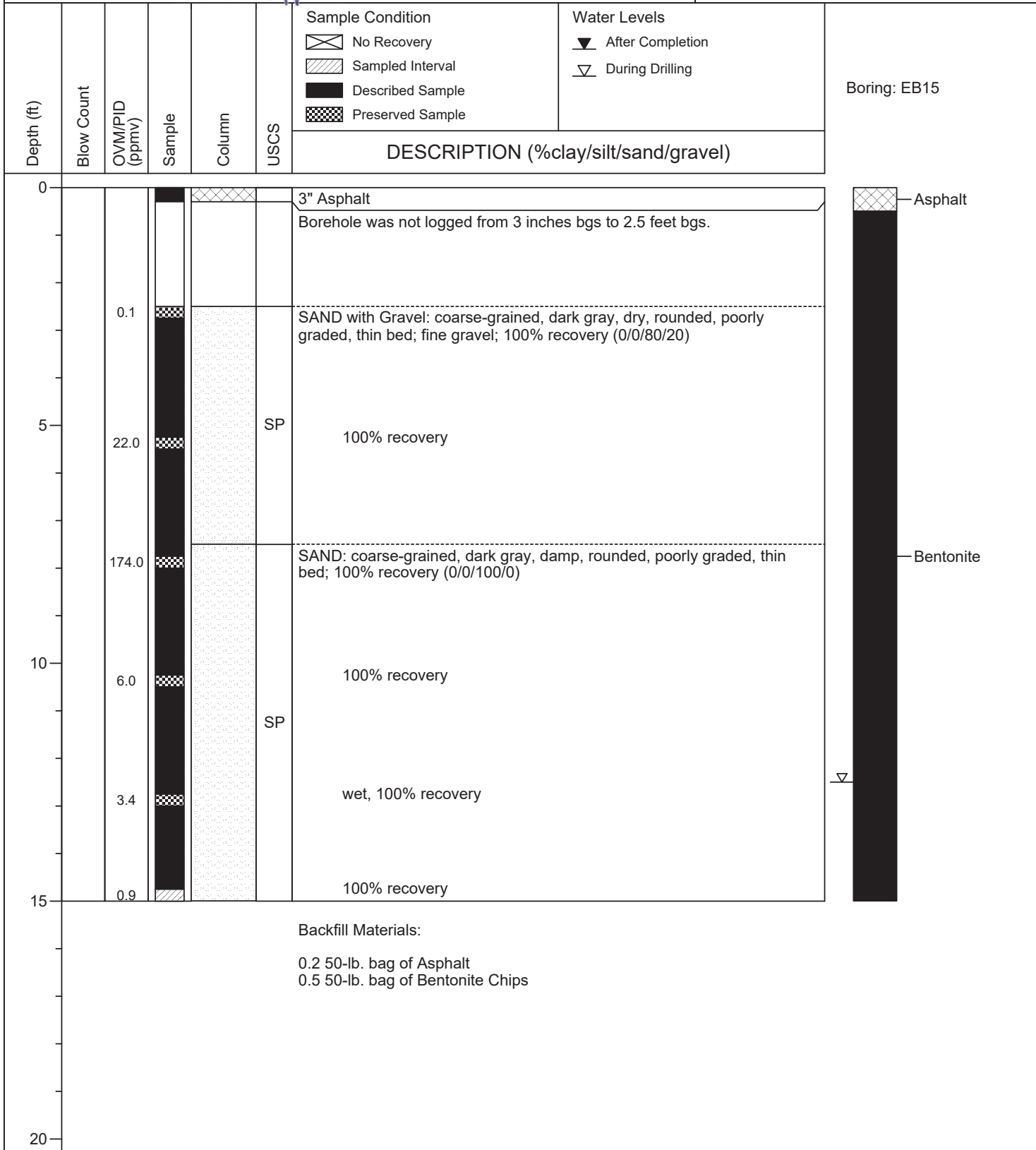


# BORING LOG EB15

(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*



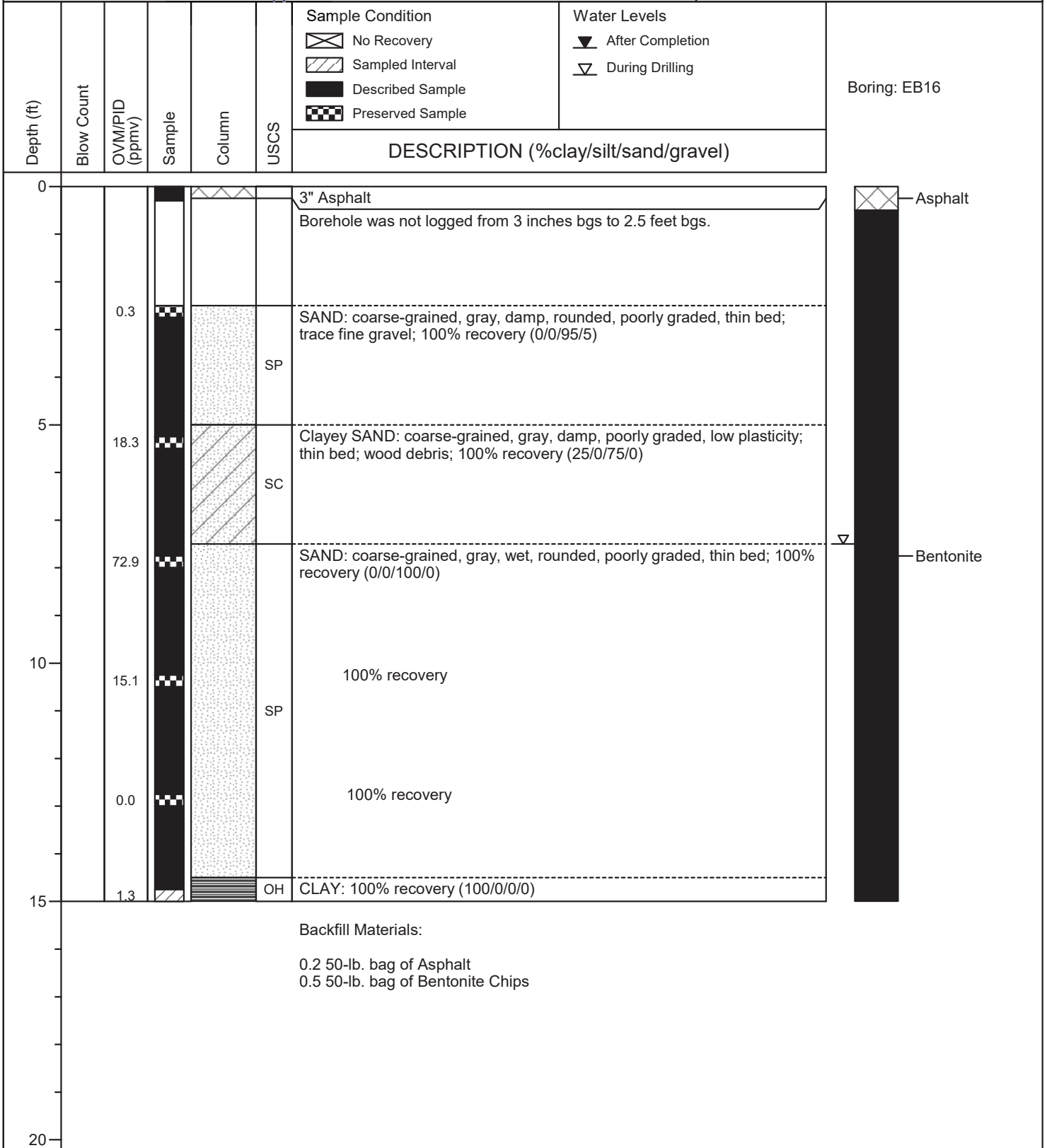


# BORING LOG EB16

(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





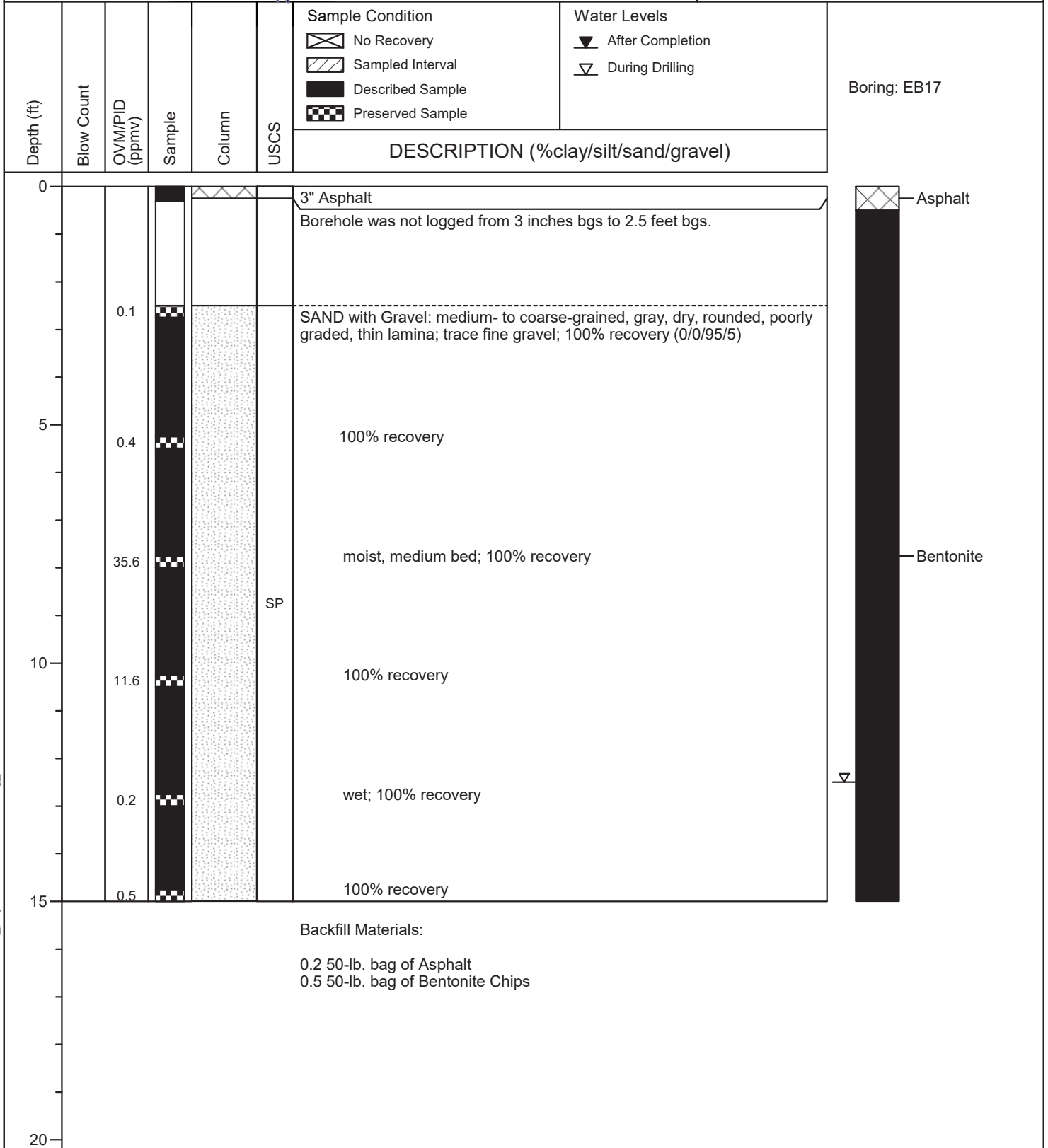


# BORING LOG EB17

(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*





# 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.		
		0.0				SAND: coarse-grained, medium brown, dry, moderately graded, thin lamina; fine gravel; 100% recovery (0/0/85/15)		
		2.2			SW	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								

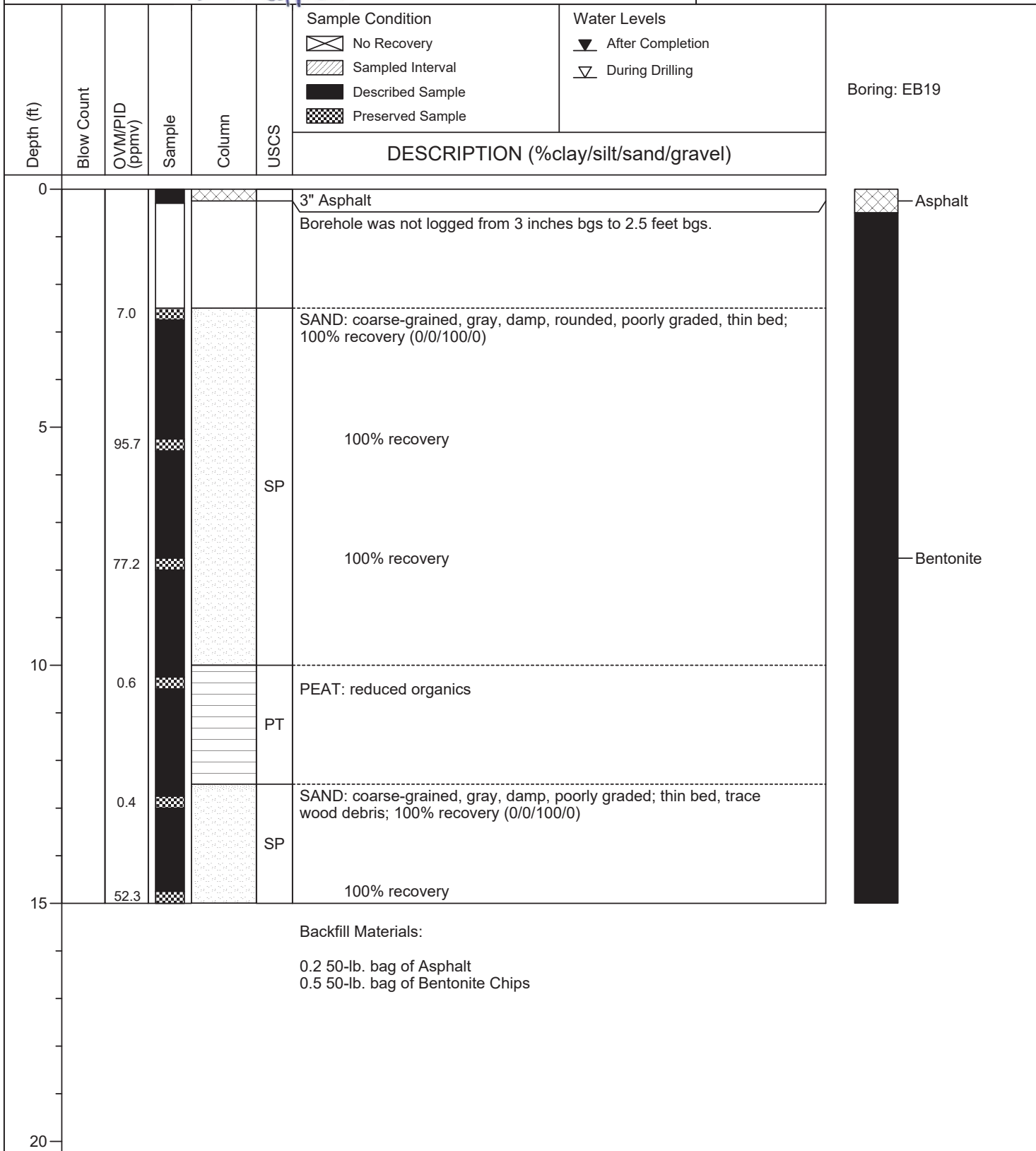


# BORING LOG EB19

(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: : 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.		
		0.0				SAND: coarse-grained, brown, damp, rounded, poorly graded, lamina; 100% recovery (0/0/100/0)		
					SP			
5		1.0				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								

 Asphalt  
 Bentonite

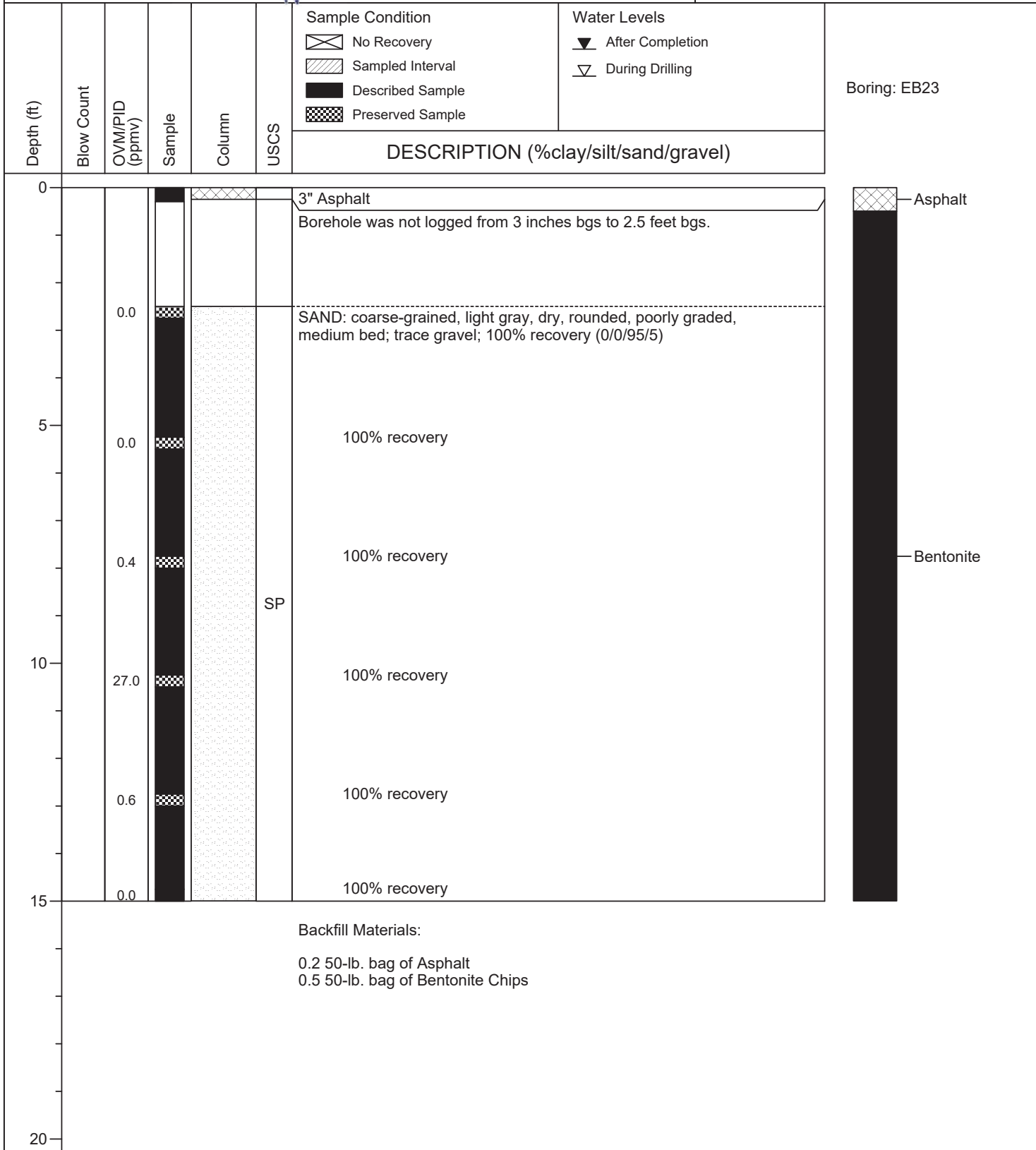


# BORING LOG EB23

(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



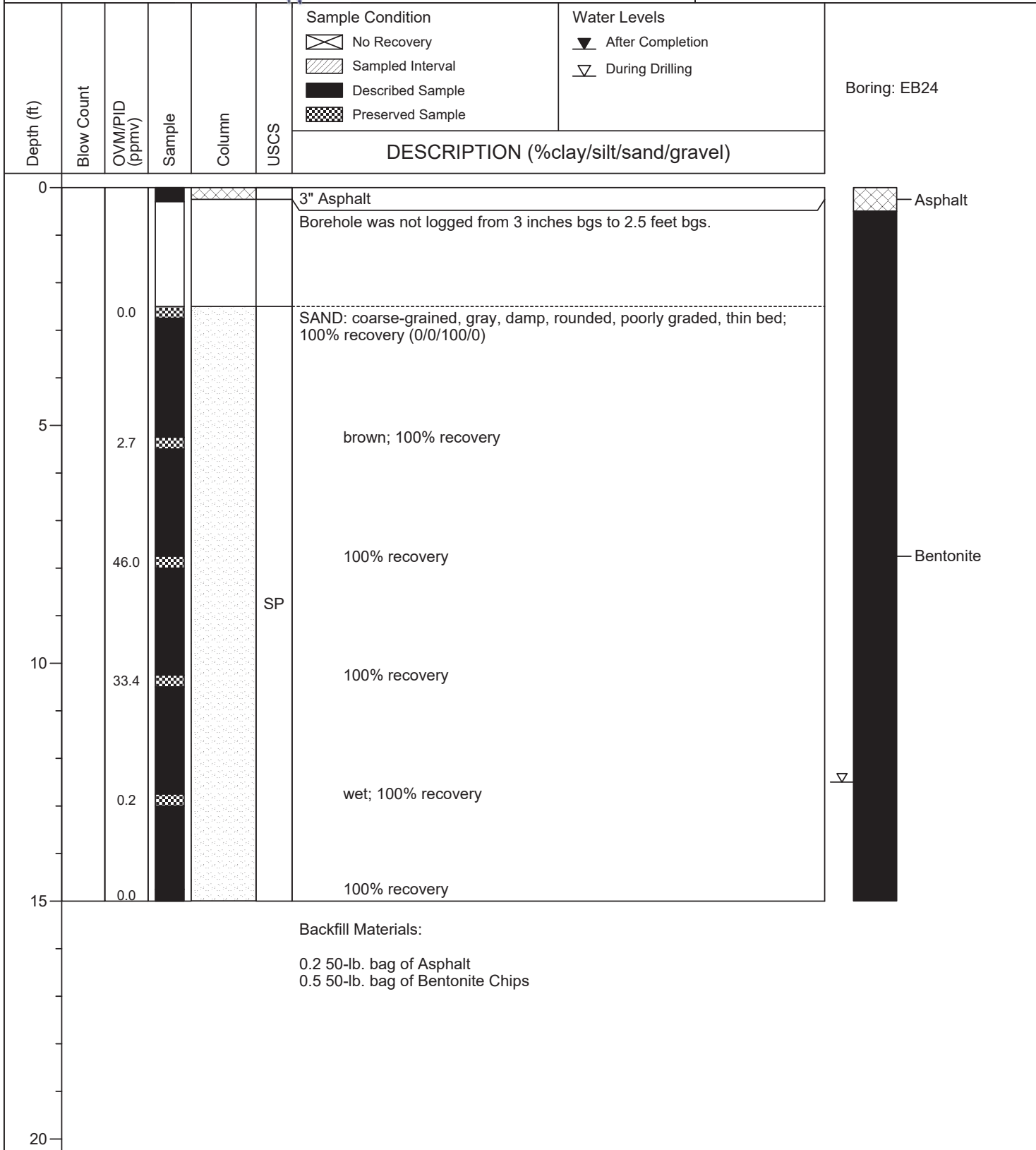


# BORING LOG EB24

(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: : Keri Chappell, L.G. 2719  
Signature: : Keri Chappell





Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	<div> <div>No Recovery</div> <div>Sampled Interval</div> <div>Described Sample</div> <div>Preserved Sample</div> </div> <div> <div>After Completion</div> <div>During Drilling</div> </div>	Boring: EB25
						DESCRIPTION (%clay/silt/sand/gravel)	
0						<div> <div>3" Asphalt</div> <div>Borehole was not logged from 3 inches bgs to 2.5 feet bgs.</div> </div>	<div> <div>Asphalt</div> <div>Bentonite</div> </div>
0.0						<div> <div>SAND: coarse-grained, gray, dry, poorly graded, medium bed; trace fine gravel; 100% recovery (0/0/90/10)</div> </div>	
0.2						<div> <div>100% recovery</div> </div>	
0.5						<div> <div>no gravel; 100% recovery (0/0/100/0)</div> </div>	
50.4					SP	<div> <div>gray brown; 100% recovery</div> </div>	
0.3						<div> <div>wet; 100% recovery</div> </div>	
0.2						<div> <div>100% recovery</div> </div>	
<div> <div>Backfill Materials:</div> <div>0.2 50-lb. bag of Asphalt</div> <div>0.5 50-lb. bag of Bentonite Chips</div> </div>							



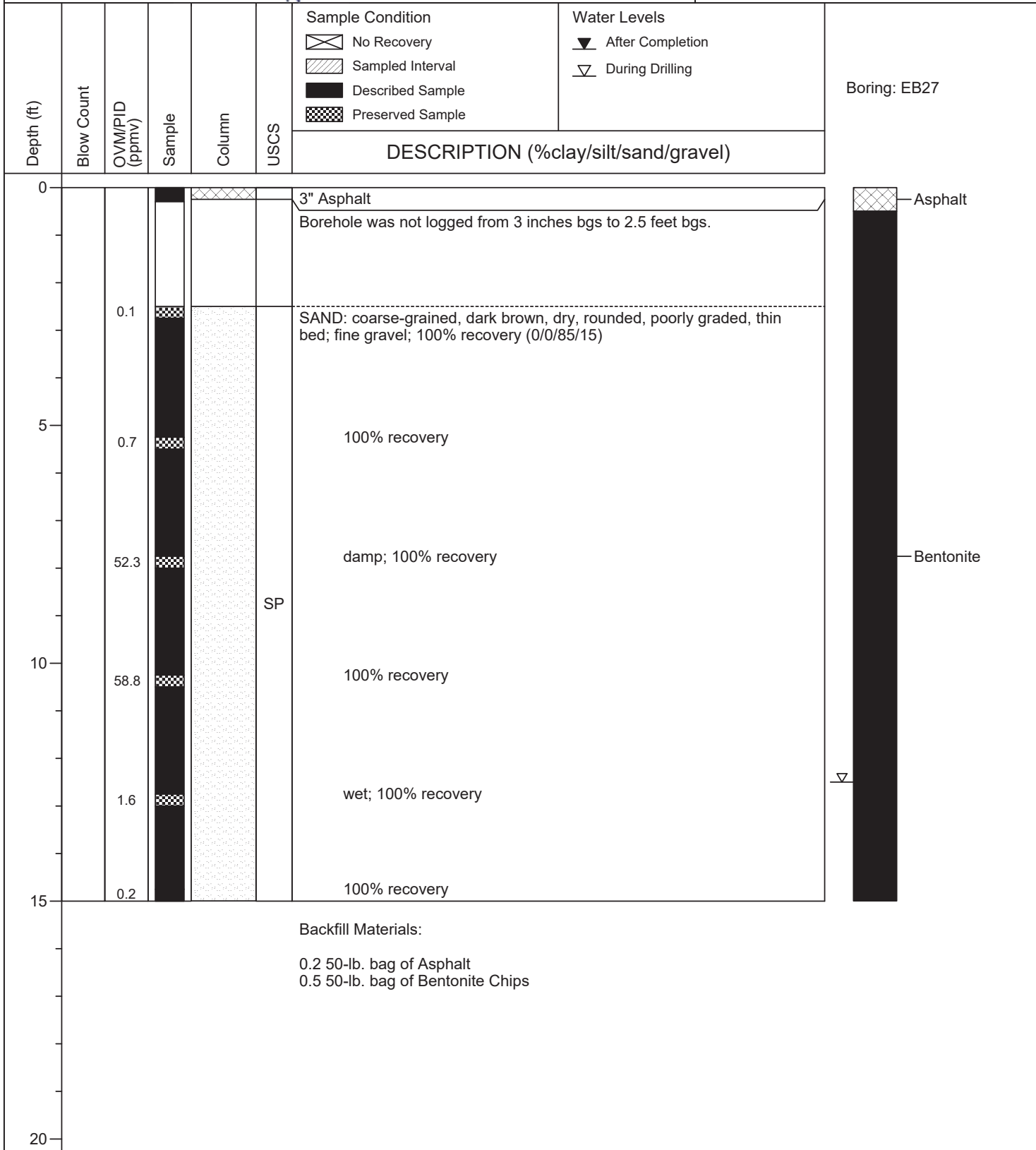


# BORING LOG EB27

(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



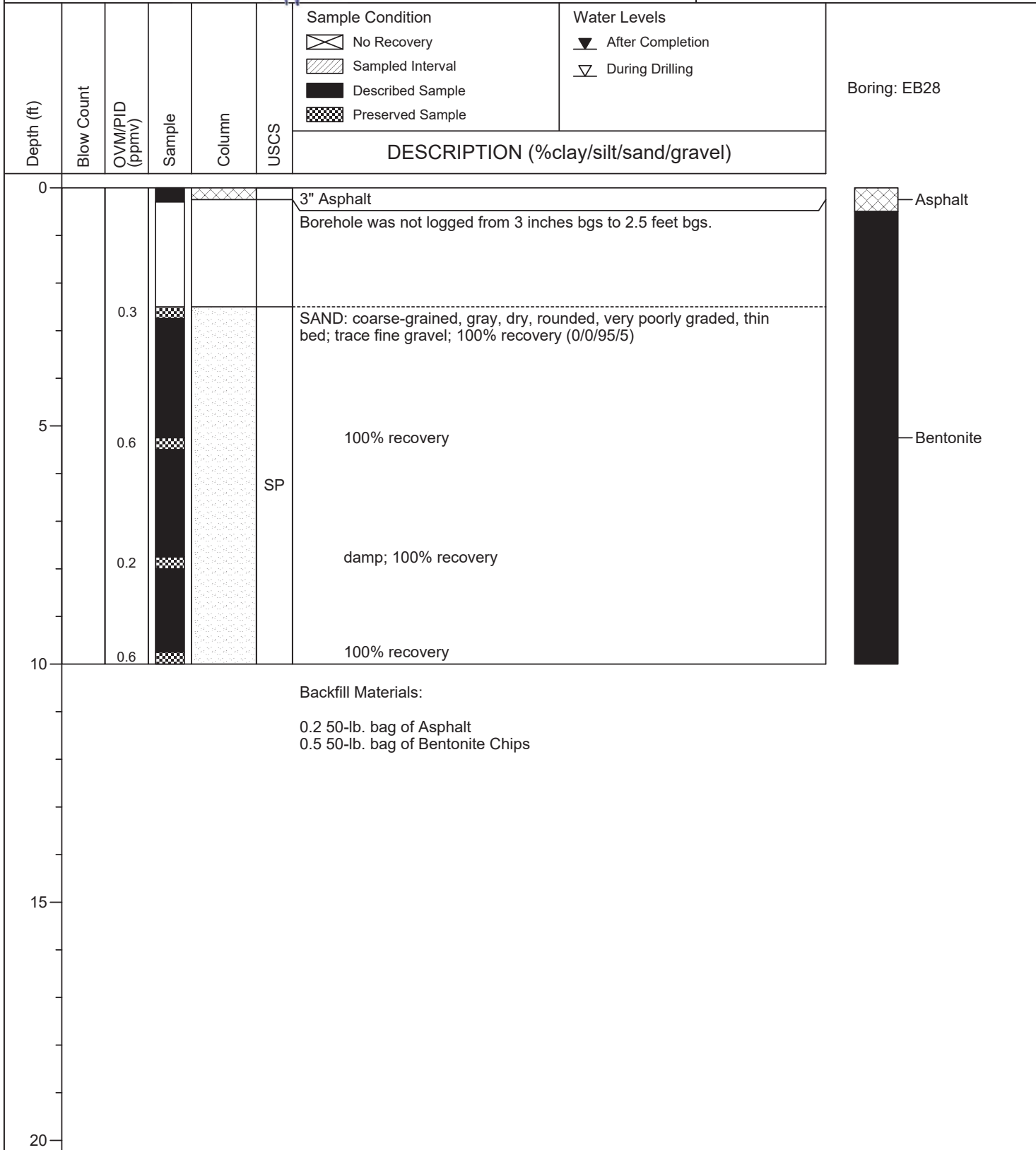


# BORING LOG EB28

(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*



(Page 1 of 1)



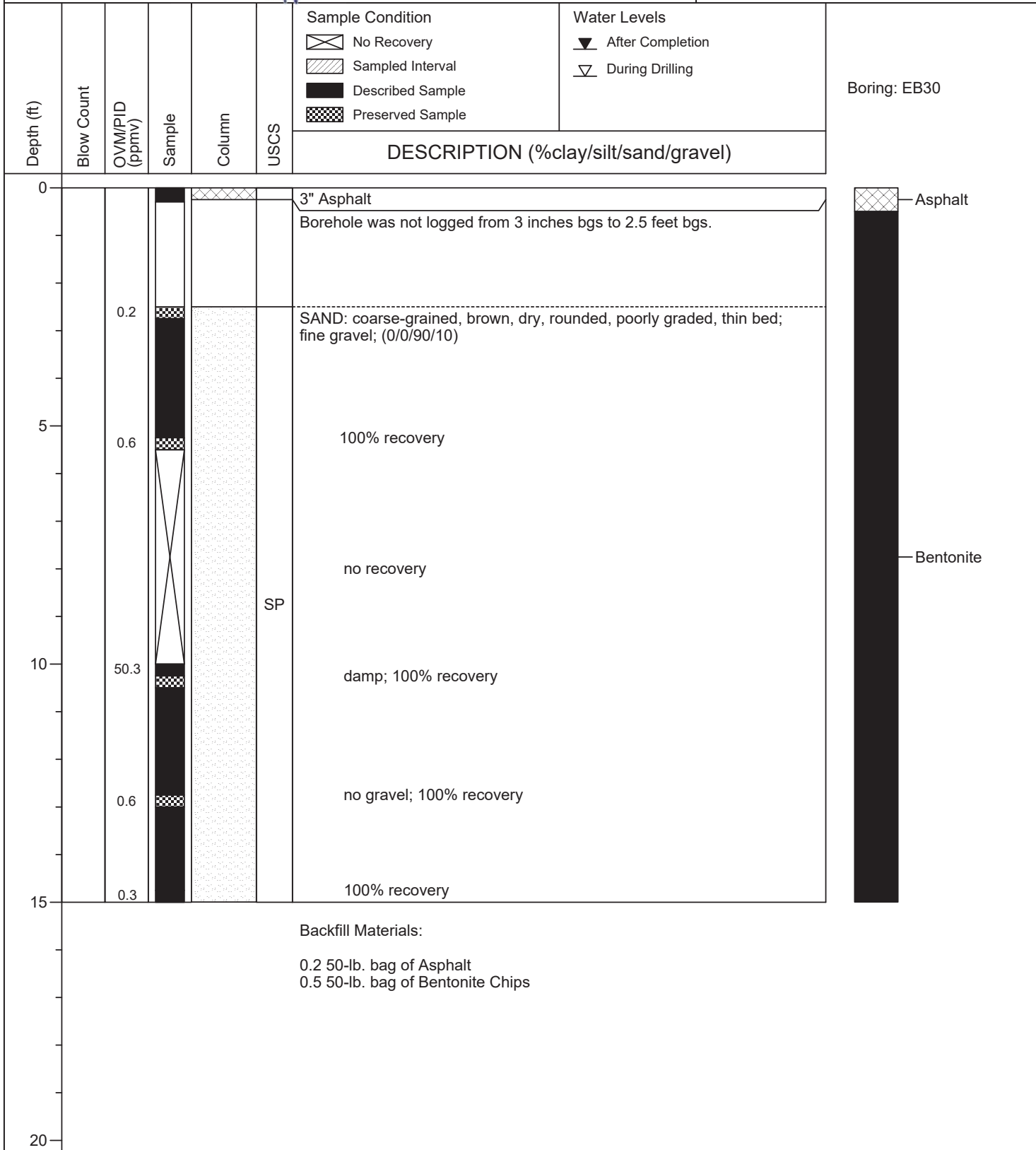


# BORING LOG EB30

(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*

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB31
						<div>✖ No Recovery</div> <div>▨ Sampled Interval</div> <div>■ Described Sample</div> <div>▩ Preserved Sample</div>	<div>▼ After Completion</div> <div>▽ During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		<div>▨ Asphalt</div>
						Debris backfill		
		0.0			SW	SAND with Gravel: fine- to coarse-grained, gray brown, moist, well graded; fine to coarse gravel, angular to subangular; 50% recovery (0/5/55/40)		
5		0.1				50% recovery		<div>■ Bentonite</div>
						Wood debris; 100% recovery		
		0.0			SP	SAND with Gravel: medium- to coarse-grained, brown, moist, poorly graded; fine to coarse gravel, subrounded; 75% recovery (0/10/70/20)		
		18.1			SP	SAND: coarse-grained, gray, damp, poorly graded; 100% recovery (0/5/95/0)		
10						refusal at 9.5' bgs; 60% recovery		
						Backfill Materials:		
						0.2 50-lb. bag of Asphalt		
						0.5 50-lb. bag of Bentonite Chips		
15								
20								

(Page 1 of 1)



# 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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB31B
						<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	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		Asphalt
Borehole was not logged from 6 inches bgs to 17.5 feet bgs.								
5								
10								Bentonite
15								
17.5		0.4			SP	SAND: medium- to coarse-grained, gray to dark gray, wet, poorly graded; fine gravel, subangular; 100% recovery (0/5/90/5)	<input checked="" type="checkbox"/>	
20		0.6			CL	CLAY: gray brown, moist, high plasticity; trace fine sand; 100% recovery (95/0/5/0)	<input type="checkbox"/>	
Backfill Materials:								
0.2 50-lb. bag of Asphalt								
0.5 50-lb. bag of Bentonite Chips								

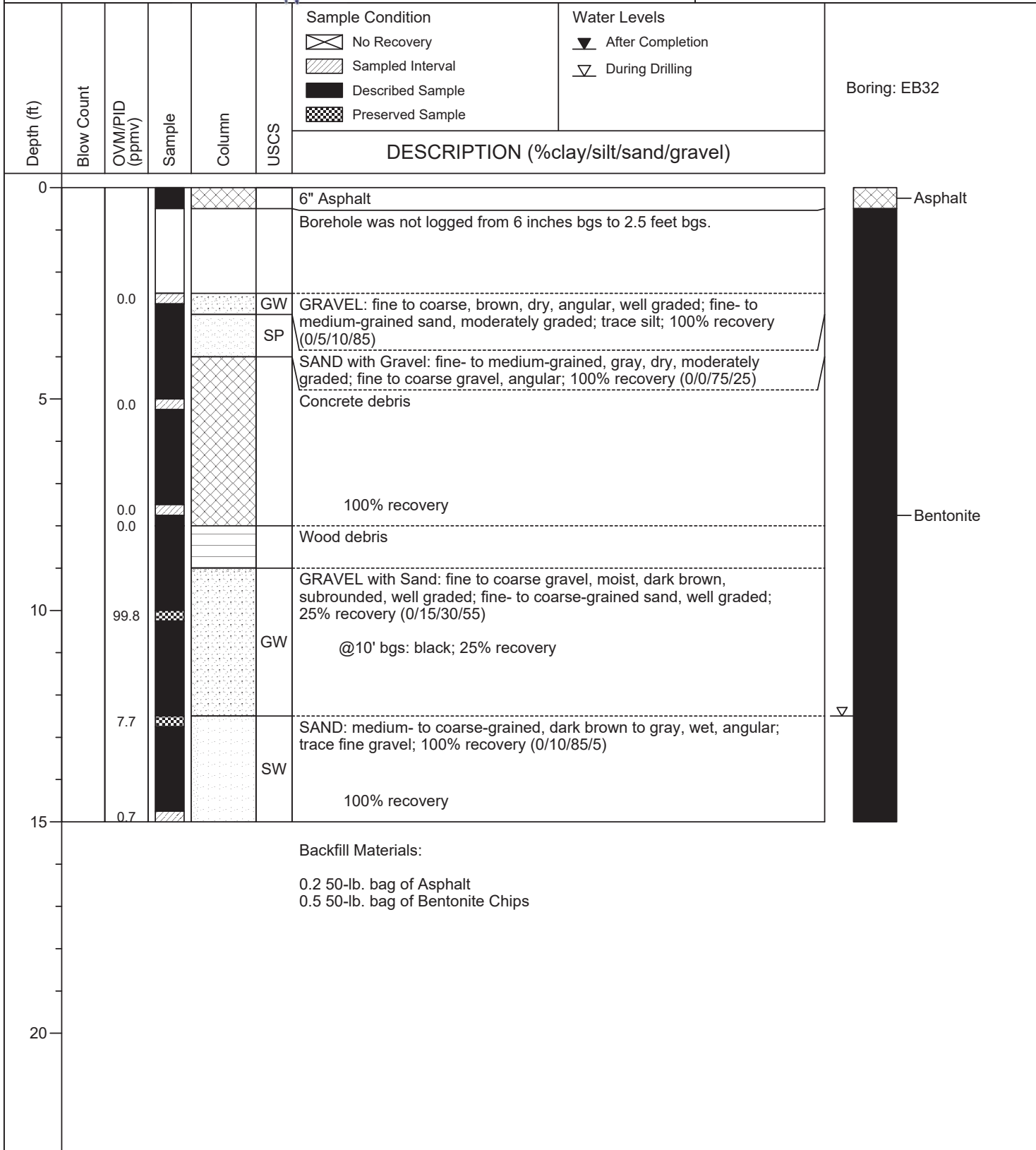


# BORING LOG EB32

(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*





(Page 1 of 1)



## 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	Boring: EB33
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		<div><div></div>Asphalt</div>
						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						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		<div><div></div>Bentonite</div>
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)	<div><div></div></div>	
1.7					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						NAPL observed; 100% recovery		
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)		
						Backfill Materials:		
						0.2 50-lb. bag of Asphalt		
						0.5 50-lb. bag of Bentonite Chips		

(Page 1 of 1)



## BORING LOG EB35

(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: : 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	Boring: EB35
						<div>⊠ No Recovery</div> <div>▨ Sampled Interval</div> <div>■ Described Sample</div> <div>▩ Preserved Sample</div>	<div>▼ After Completion</div> <div>▽ During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		<div>⊠ Asphalt</div>
						Debris backfill		
		0.0				SAND with Gravel: fine- to coarse grained, light brown, dry, well graded; fine to coarse gravel, subrounded, moderately graded; 100% recovery (0/5/60/35)		
5		0.0			SW	100% recovery		
		0.0				Silty SAND: fine- to medium-grained, black, moist, moderately graded; fine to coarse gravel, subrounded; 100% recovery (0/20/70/10)		<div>— Bentonite</div>
10		0.3			SM	100% recovery		
		1.5				fine-grained, dark brown, poorly graded; wood debris; 100% recovery (0/20/80/0)		
15		0.9			SP	SAND: medium- to coarse-grained, gray, damp, poorly to moderately 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		
20								



## BORING LOG EB36

(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: : 8.5' 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: EB36
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		<div><div></div></div> Asphalt
						SAND: fine- to medium-grained, gray, dry, poorly graded; (0/5/95/0)		
		0.0			SP	100% recovery		
5		0.4				100% recovery		
		0.3				100% recovery		
						Wood debris, wet	<div><div></div></div>	Bentonite
10		1.0			SW	Silty SAND: fine- to coarse-grained, gray to dark gray, wet, well graded; trace fine gravel, subrounded; 100% recovery (0/15/80/5)		
		0.3			SP	SAND: medium- to coarse-grained, gray, wet, poorly graded; trace fine gravel, angular; 100% recovery (0/5/90/5)		
					SP	Wood debris, 3" layer		
15						SAND: medium- to coarse-grained, gray, wet, poorly graded; trace fine gravel, angular; 100% recovery (0/5/90/5)		
						Backfill Materials:		
						0.2 50-lb. bag of Asphalt		
						0.5 50-lb. bag of Bentonite Chips		
20								



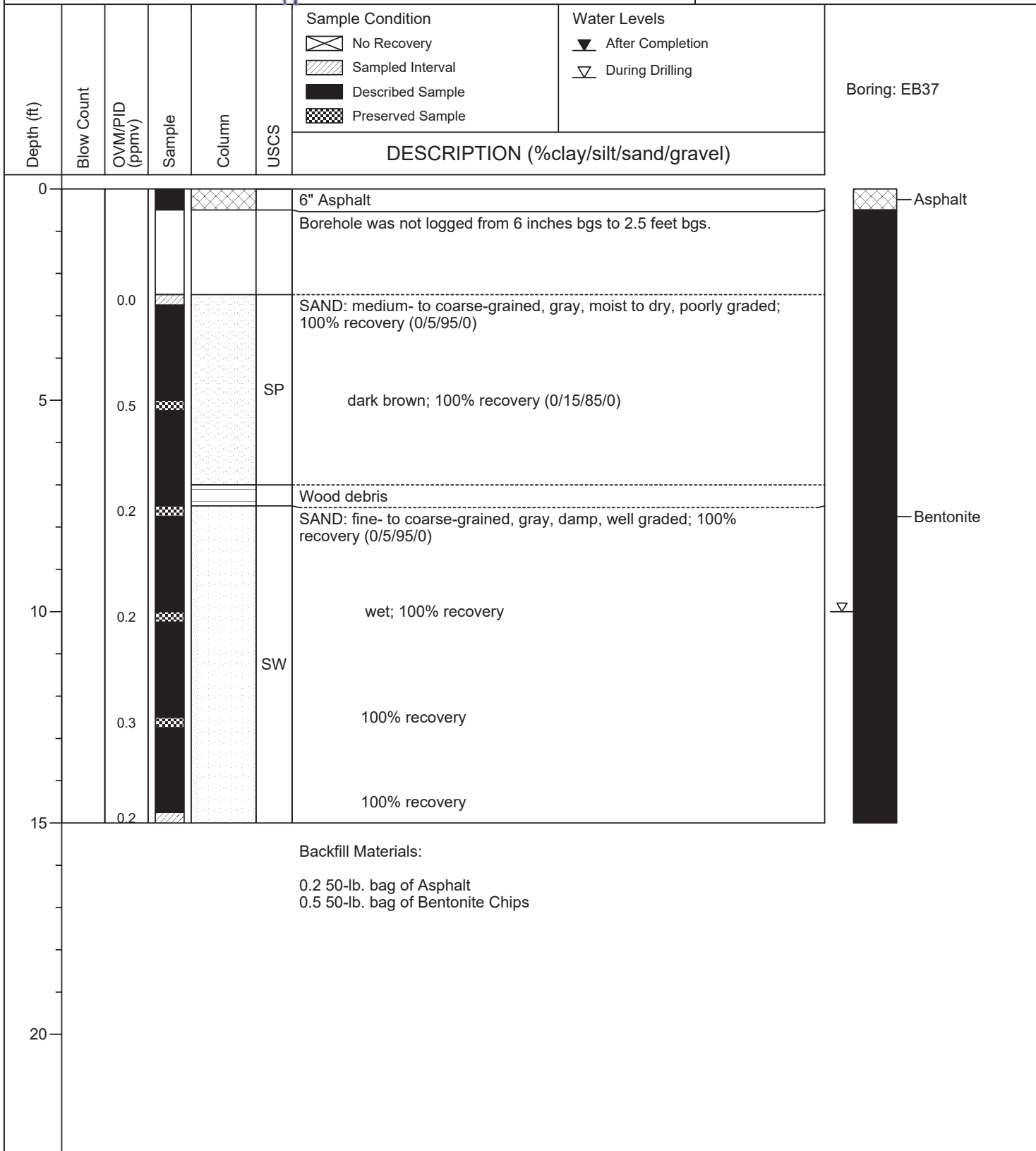


# BORING LOG EB37

(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: : 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



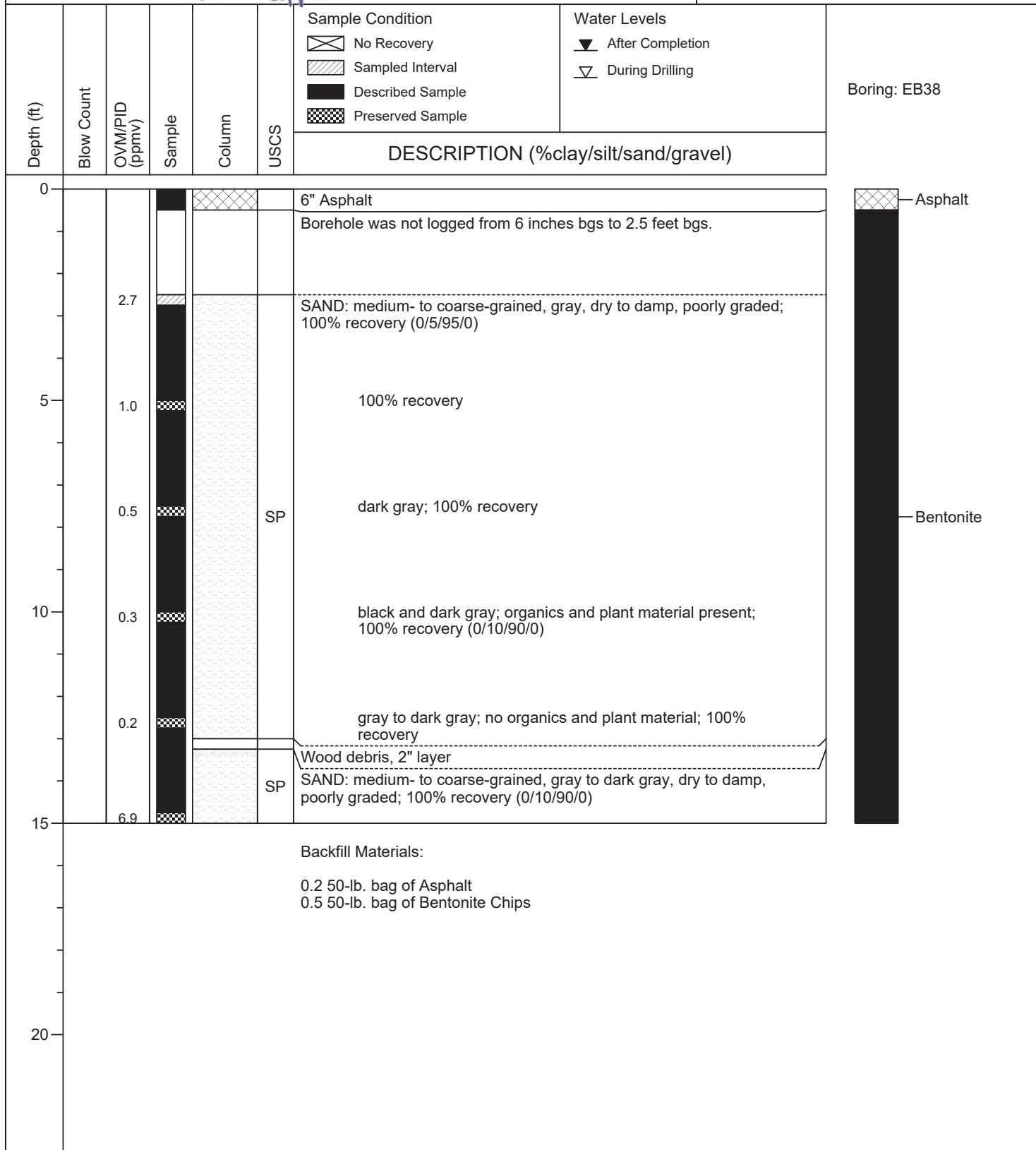


## BORING LOG EB38

(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 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	Boring: EB39
						<div>✕</div> No Recovery <div>▨</div> Sampled Interval <div>■</div> Described Sample <div>▤</div> Preserved Sample	<div>▼</div> After Completion <div>▽</div> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		<div>▤</div> Asphalt
						Borehole was not logged from 6 inches bgs to 2.5 feet bgs.		
								<div>■</div> Bentonite
4.2						Concrete debris		
					SP	SAND: medium- to coarse-grained, brown, dry to damp, poorly graded; 100% recovery (0/5/95/0)		
						Wood debris, 2" layer		
5						SAND: medium- to coarse-grained, gray, dry to damp, poorly graded; 100% recovery (0/10/90/0)		
					SP			
						dark gray, organic material present; 100% recovery		
						Wood debris with brown clay, medium plasticity; 100% recovery		
10						SAND: medium- to coarse-grained, dark gray, dry to damp, poorly graded; 100% recovery (0/10/90/0)		
					SP			
						Wood debris with dark brown clay, medium plasticity; 100% recovery		
						SAND: medium- to coarse-grained, gray, dry to damp, poorly graded; 100% recovery (0/10/90/0)		
15						dark gray; 100% recovery		
					SP			
						100% recovery		
						Wood debris with brown clay, medium plasticity; intermittent coarse-grained sand; 100% recovery		
20						SAND: medium- to coarse-grained, dark gray, dry to damp, poorly graded; 100% recovery (0/10/90/0)		
					SP			
						Backfill Materials:		
						0.2 50-lb. bag of Asphalt		
						0.5 50-lb. bag of Bentonite Chips		

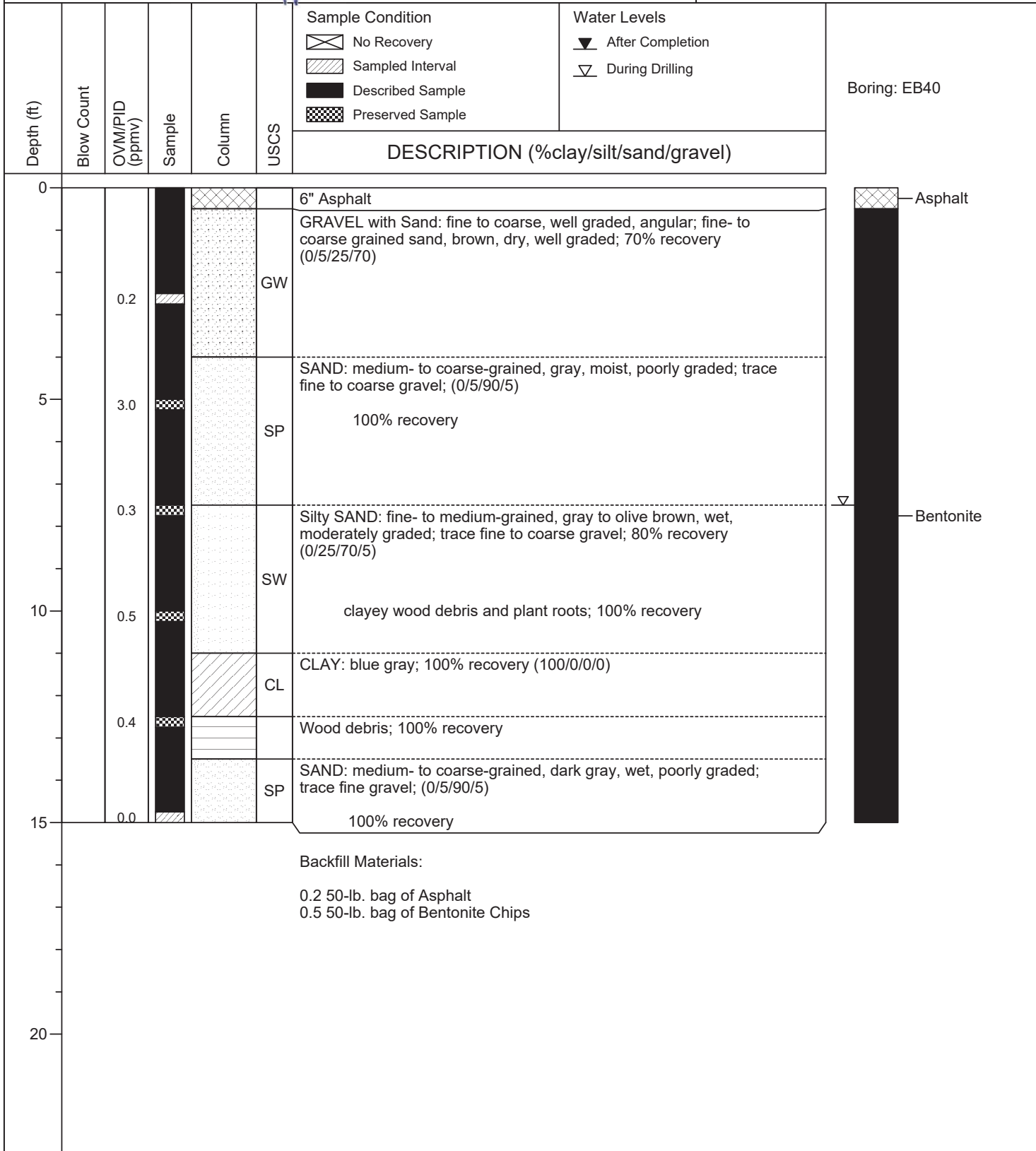


## BORING LOG EB40

(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: : 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*





# 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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: EB41
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div> <td><div><div></div>After Completion</div><div><div></div>During Drilling</div></td>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
					SW	SAND with Gravel: fine- to coarse-grained, brown, well graded; fine to coarse gravel, angular, well graded (0/5/55/40)		
0.4								
					SW	SAND: fine- to coarse-grained, gray, moist, poorly graded; 100% recovery (0/5/95/0)		
5						gray to dark gray; 100% recovery		
36.0								
						wood chips; 100% recovery (0/10/90/0)		
27.5								<div><div></div>Bentonite</div>
						Wood debris in dark brown clay		
10					SP	SAND: fine- to coarse-grained, gray to dark gray, moist, poorly graded; 100% recovery (0/5/95/0)		
5.8								
						100% recovery		
5.6								
						wood debris; 100% recovery (0/15/85/0)		
1.9								
15								
						Backfill Materials:		
						0.2 50-lb. bag of Asphalt		
						0.5 50-lb. bag of Bentonite Chips		
20								



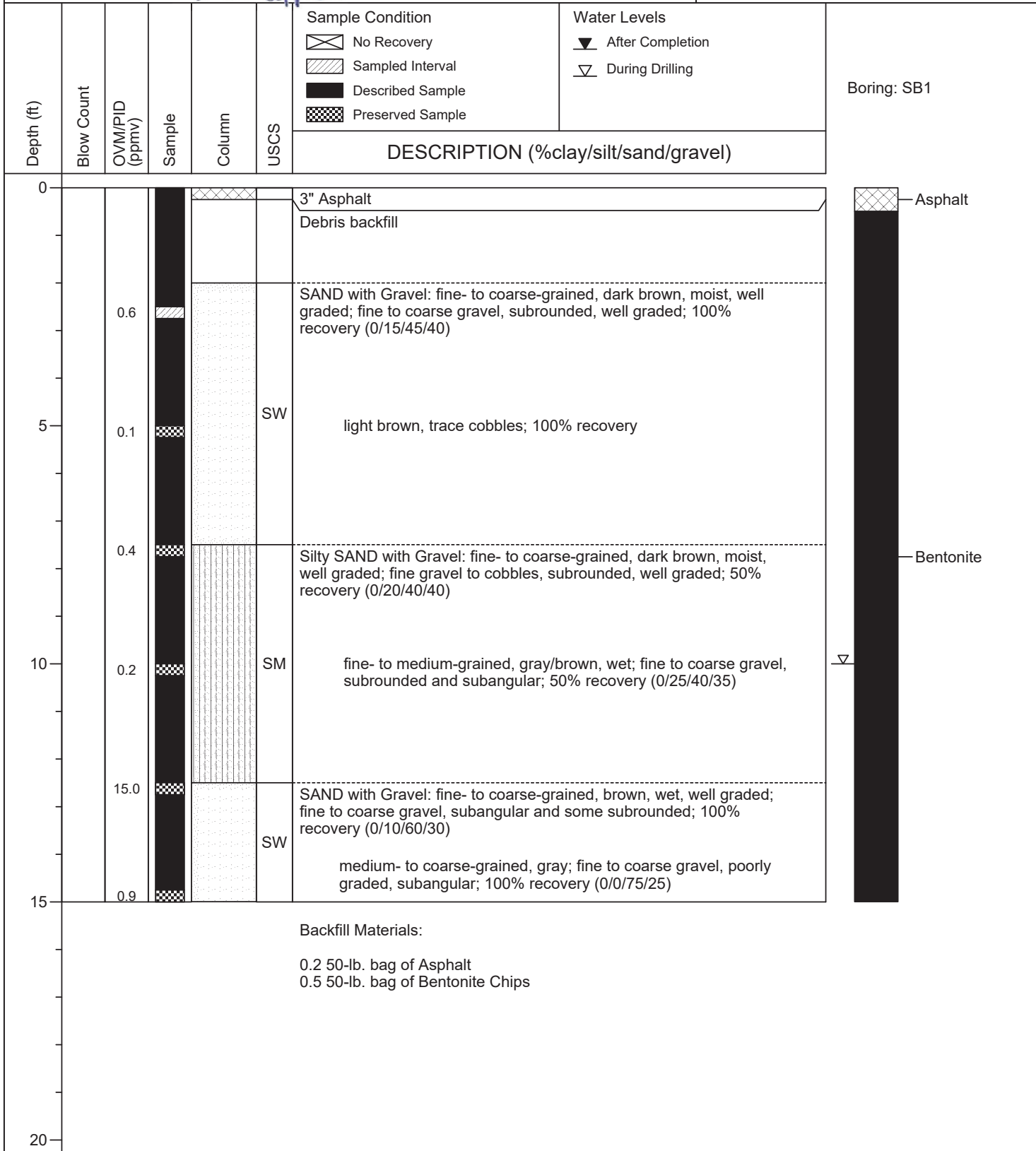


# BORING LOG SB1

(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: : 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*



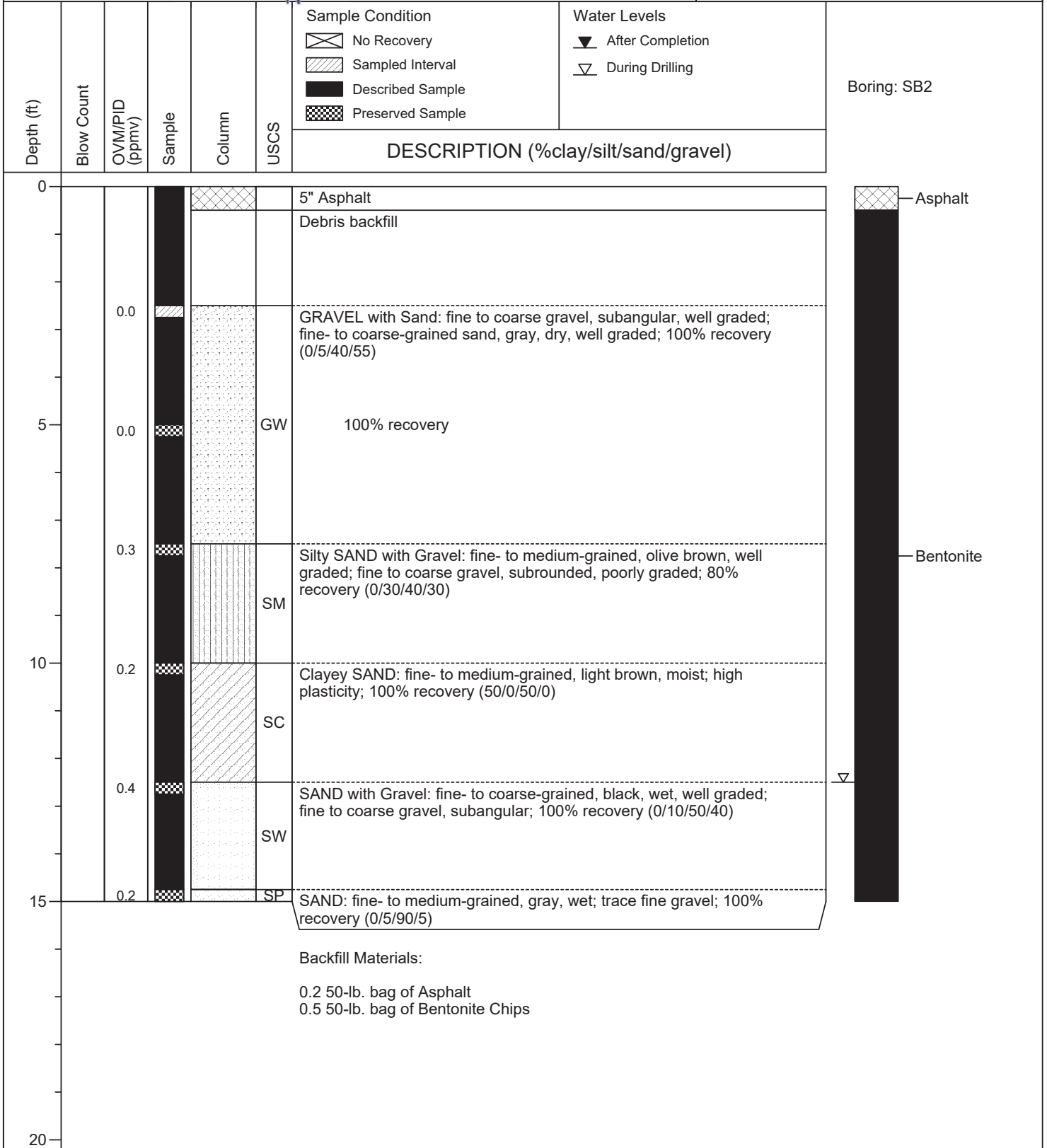


# BORING LOG SB2

(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*



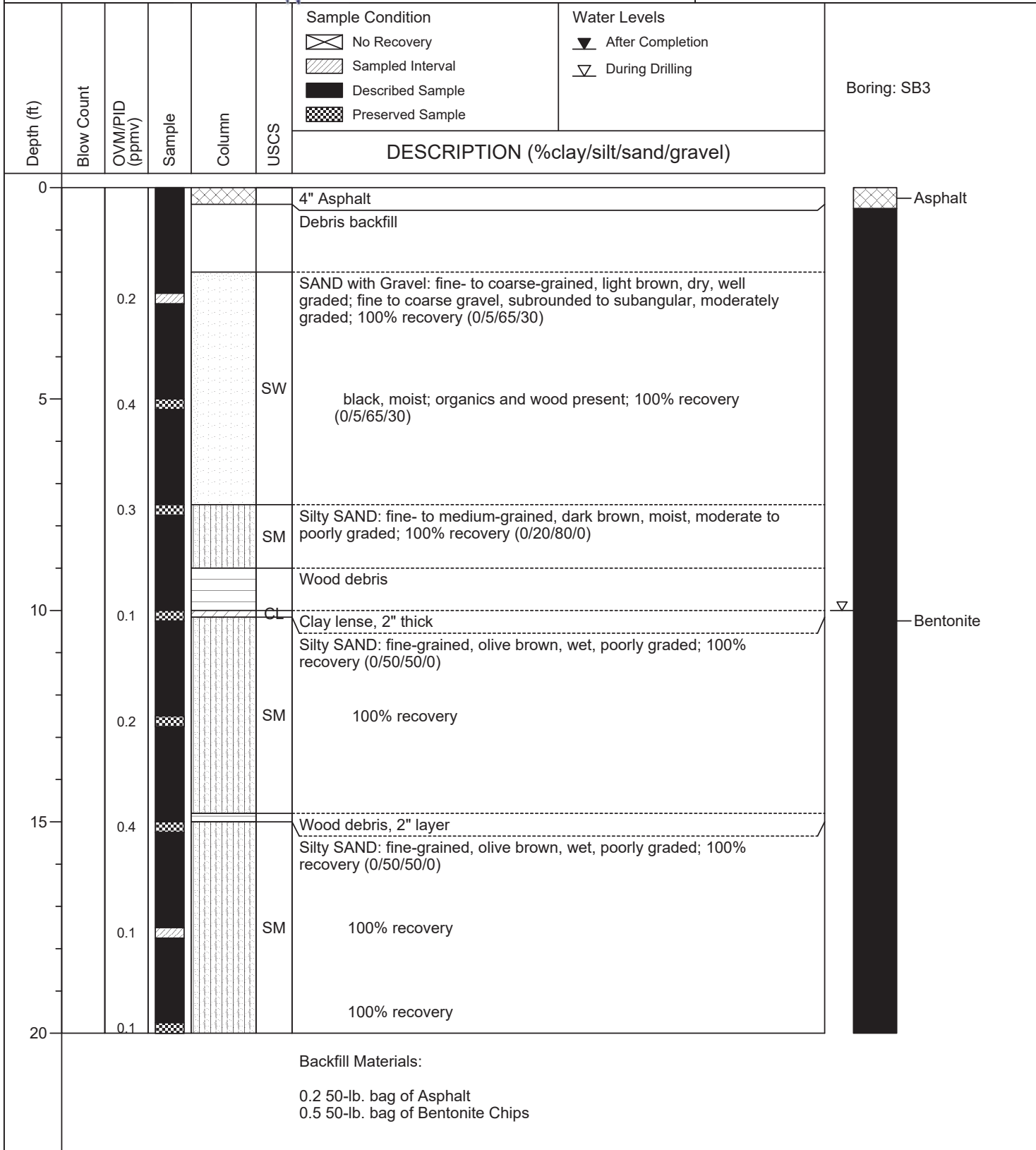


# BORING LOG SB3

(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
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						6" Asphalt		<div>Asphalt</div>
						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				SAND: coarse-grained, gray, dry, poorly graded; trace fine gravel; 100% recovery (0/5/90/5)		
		0.4			SP			
		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)	<div></div>	<div>Bentonite</div>
		24.5				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 SB6

(Page 1 of 1)

Date Drilled: : 02/05/21  
Drilling Co.: : Holocene Drilling, Inc.  
Drilling Method: : Push Probe  
Sampling Method: : Dual Tube  
Borehole Diameter: : 3"  
Casing Diameter: : N/A  
Latitude : N/A  
Longitude : N/A  
Total Depth: : 15' bgs  
First GW Depth: : 7.5' bgs

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: SB6
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						5" Asphalt		<div><div></div></div> Asphalt
						Borehole was not logged from 6 inches bgs to 2.5 feet bgs.		
3.5					SW	SAND with Gravel: fine- to coarse-grained, black to dark brown, moist, moderately graded; fine to coarse gravel, rounded to subangular, well graded; 100% recovery (0/5/60/35)		
5					SM	Silty SAND: very fine- to medium-grained, gray, moist; 100% recovery (0/30/70/0)		
						fine- to coarse-grained, bimodal primarily coarse-grained, brown, wet, low plasticity; trace fine gravel; 100% recovery (0/20/75/5)	<div><div></div></div>	Bentonite
						Wood debris with brown clay, dry to moist, roots		
10					SP	SAND: medium- to coarse-grained, gray, wet, poorly graded; 100% recovery (0/5/95/0)		
15					CL	CLAY with Sand: dark brown, moist, high plasticity; fine-grained sand, poorly graded; 100% recovery (85/0/15/0)		
						Backfill Materials:		
						0.2 50-lb. bag of Asphalt		
						0.5 50-lb. bag of Bentonite Chips		
20								



# BORING LOG SB7

(Page 1 of 1)

Date Drilled: : 02/05/21  
Drilling Co.: : Holocene Drilling, Inc.  
Drilling Method: : Push Probe  
Sampling Method: : Dual Tube  
Borehole Diameter: : 3"  
Casing Diameter: : N/A  
Latitude : N/A  
Longitude : N/A  
Total Depth: : 15' bgs  
First GW Depth: : 12.5' bgs

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



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# 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	Boring: B1
						<div>✖ No Recovery</div> <div>▨ Sampled Interval</div> <div>■ Described Sample</div> <div>▤ Preserved Sample</div>	<div>▼ After Completion</div> <div>▽ During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>✖</div> Asphalt
					SP	SAND: medium- to coarse-grained, brown, dry; 70% recovery (5/0/95/0)		
5						Silty SAND: medium- to coarse-grained, olive brown, moist; 100% recovery (5/20/75/0)		
						olive gray; coarse gray rounded gravel; 100% recovery (0/20/70/10)		Bentonite
10					SM	dark gray, wet; no gravel; 100% recovery (5/20/75/0)		▽
						fine- to medium-grained, gray, moist; 100% recovery (0/25/75/0)		
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 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: : Keri Chappell, L.G. 2719  
Signature: : Keri Chappell

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: C2
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
					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)		<div>Bentonite</div>
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)		<div></div>
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	Boring: C4
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
					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)		<div>Bentonite</div>
						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		<div></div>
		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 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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: C6
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> Asphalt
0.6					CL	Sandy CLAY: brown, dry, medium plasticity; fine- to coarse-grained poorly graded sand; trace subangular gravel; 100% recovery (60/0/35/5)		
5								<div><div></div></div>
0.5						GRAVEL with Sand: fine to coarse, dark gray, wet, angular to subrounded, well graded; fine- to coarse-grained well graded sand LNAPL observed from 6 to 9' bgs		
22.3					GW	dark brown, angular to rounded; trace silt; 70% recovery (0/5/25/70)		Bentonite
10								
18.2					CL	CLAY: dark brown, moist, medium to high plasticity; wood material; trace coarse well rounded gravel (95/0/0/5)		
9.9								
					GW	GRAVEL with Sand: fine to coarse, brown, wet, angular to subrounded; fine- to coarse-grained sand; 90% recovery (0/0/15/85)		
15						Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips		
20								



## 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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: C8
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0								Surface soil
1.1					ML	Sandy SILT: gray, dry to damp; fine-grained sand; trace fine subrounded gravel; 70% recovery (0/60/40/0)		
2.8					CL	Gravelly CLAY: dark gray, wet, medium plasticity; coarse subangular to subrounded gravel; 70% recovery (60/0/0/40)		
1.6					GW	GRAVEL with Sand: fine to coarse, olive brown, wet, angular; fine- to coarse-grained well graded sand; trace silt; 65% recovery (0/5/30/65)  LNAPL observed from 9 to 10' bgs		Bentonite
136.1					SM	Silty SAND with Gravel: fine- to coarse-grained, dark brown, wet, well graded; fine angular gravel; 70% recovery (0/20/65/15)		
47.1					GW	LNAPL observed at 12.5' bgs GRAVEL with Sand: fine to coarse, dark brown, wet, subangular to subrounded; fine- to coarse-grained well graded sand; trace silt; 75% recovery (0/5/15/80)		
15					Backfill Materials:  Surface completed to match surrounding soil 0.25 50-lb. bag of Bentonite Chips			
20								

(Page 1 of 1)



# 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	Boring: D3	
						<div>No Recovery</div> <div>Sampled Interval</div> <div>Described Sample</div> <div>Preserved Sample</div>	<div>After Completion</div> <div>During Drilling</div>		
DESCRIPTION (%clay/silt/sand/gravel)									
0						3" Asphalt			<div></div> 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 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: : Keri Chappell, L.G. 2719  
Signature: : Keri Chappell

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





## 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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: D7
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> Asphalt
31.0					GW	GRAVEL with Sand: fine to coarse, dark brown, damp, subangular to subrounded; fine- to medium-grained poorly graded sand; wood fragments; 65% recovery (0/10/30/60)		
61.2					SM	Silty SAND: fine- to medium-grained, dark brown, damp, poorly graded; trace fine gravel; 65% recovery (0/15/80/5)		
26.6						SAND with Gravel: fine- to coarse-grained, brown, dry, well graded; fine to coarse subangular to rounded gravel; trace silt; 60% recovery (0/5/50/45)		
85.3					SW	wet, plant fibers, LNAPL observed; 75% recovery		<div><div></div></div> Bentonite
10.1						Wood Layer with Clay: brown to reddish brown, damp, medium plasticity; 100% recovery		
15						Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips		
20								

(Page 1 of 1)



## 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	Boring: E2
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> 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)	<div><div></div></div>	
81.0					CL	Sandy CLAY: olive gray, damp, plasticity; fine- to medium-grained sand; 30% recovery (60/0/40/0)		<div></div> Bentonite
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 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
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> Asphalt
25.7					GC	Clayey GRAVEL: fine to coarse, gray, damp, rounded to subrounded, very well graded; plasticity; 40% recovery (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)	<div><div></div></div>	
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)		<div><div></div></div> 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								

(Page 1 of 1)



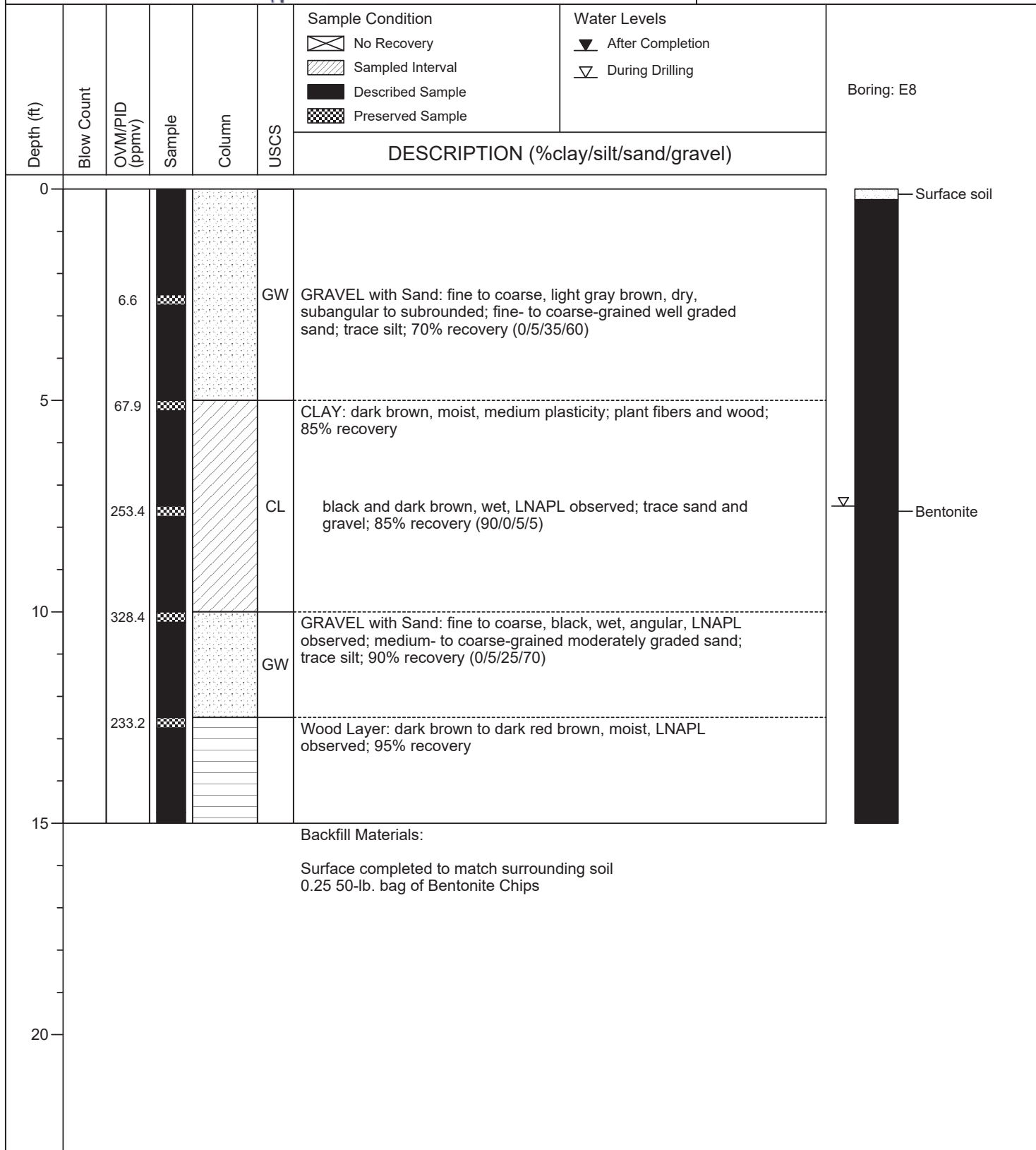


## BORING LOG E8

(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: : 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





## 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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: F3
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> Asphalt
23.7					SP	SAND with Gravel: fine- to medium-grained, olive gray, damp, well graded; wood fragments; fine to coarse gray subrounded gravel; 30% recovery (10/0/75/15)		
68.8					SM	Silty SAND with Gravel: fine- to medium-grained, olive brown, damp, moderately graded; wood fragments; fine gray subrounded gravel; 30% recovery (10/30/40/20)		
				No recovery				
10.0					SM	Silty SAND: fine- to medium-grained, light and dark gray, saturated, very poorly graded; 100% recovery (0/30/65/5)		<div><div></div></div>
0.3				dark gray; trace clay; 100% recovery (10/40/50/0)				
15					Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips			
20								



## 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

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: F5
						<div>No Recovery</div> <div>Sampled Interval</div> <div>Described Sample</div> <div>Preserved Sample</div>	<div>After Completion</div> <div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>Asphalt</div>
39.5					SM	Silty SAND: fine-grained, brown, damp; fine to coarse gray subangular well graded gravel; 50% recovery (5/40/45/10)		
223.0						fine- to coarse-grained, red brown, saturated with LNAPL; wood fragments; 30% recovery (5/20/75/0)		
170.1					ML	Clayey SILT: dark olive brown, moist; wood fragments; 20% recovery (40/60/0/0)		<div>Bentonite</div>
279.0					SC	Silty Clayey SAND: medium- to coarse-grained, red brown, wet, very poorly graded; clay with wood fibers; 20% recovery (35/15/50/0)	<div></div>	
11.7					CL	Silty CLAY: red brown, damp, plasticity; wood fibers; 45% recovery (55/45/0/0)		
15						Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips		
20								



## 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	Boring: F7
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div> <div><div>After Completion</div><div>During Drilling</div></div>		
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
		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		99.1			SM	olive brown, damp; 80% recovery (10/40/45/5)		
		58.8				brown, moist; coarse brown subangular gravel; 80% recovery (10/40/48/2)		<div>Bentonite</div>
10		29.5				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 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	Boring: F9
						<div>No Recovery</div> <div>Sampled Interval</div> <div>Described Sample</div> <div>Preserved Sample</div>	<div>After Completion</div> <div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0								
		7.2			SM	Silty SAND: fine- to medium-grained, gray, dry, well graded; fine gray subrounded gravel; 50% recovery (5/30/60/5)		
5		85.5				damp; 20% recovery		
		363.5			ML	Clayey SILT: dark and light gray, plasticity; wood fibers; 20% recovery (40/60/0/0)		Bentonite
10		155.2			SM	Silty SAND: fine- to medium-grained, red brown, damp, poorly graded; wood fragments; 100% recovery (10/40/50/0)		
		8.3			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								

(Page 1 of 1)





## 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: : Kerj Chappell, L.G. 2719  
Signature: : Kerj Chappell

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: G4
						<div>No Recovery</div> <div>Sampled Interval</div> <div>Described Sample</div> <div>Preserved Sample</div>	<div>After Completion</div> <div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>Asphalt</div>
		28.3				Silty SAND with Gravel: fine-grained, brown, damp; fine to coarse gray subrounded moderately graded gravel; 100% recovery (10/30/40/20)		
5		24.0			SM	100% recovery (10/35/40/15)		
		1.5				subangular gravel; 20% recovery (10/30/45/15)		<div>Bentonite</div>
10		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 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	Boring: G6
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> Asphalt
		52.0	<div><div></div></div>			Silty SAND: fine- to medium-grained, gray, damp; fine to coarse gray subangular moderately graded gravel; 50% recovery (5/40/50/5)		
5		47.5	<div><div></div></div>		SM	brown gray; fine subrounded gravel; 90% recovery (5/35/55/5)		
		106.2	<div><div></div></div>			light gray to brown; 75% recovery		Bentonite
10		84.5	<div><div></div></div>			fine- to coarse-grained, red brown, saturated with LNAPL; 10% recovery (0/40/60/0)	<div><div></div></div>	
		47.6	<div><div></div></div>		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								

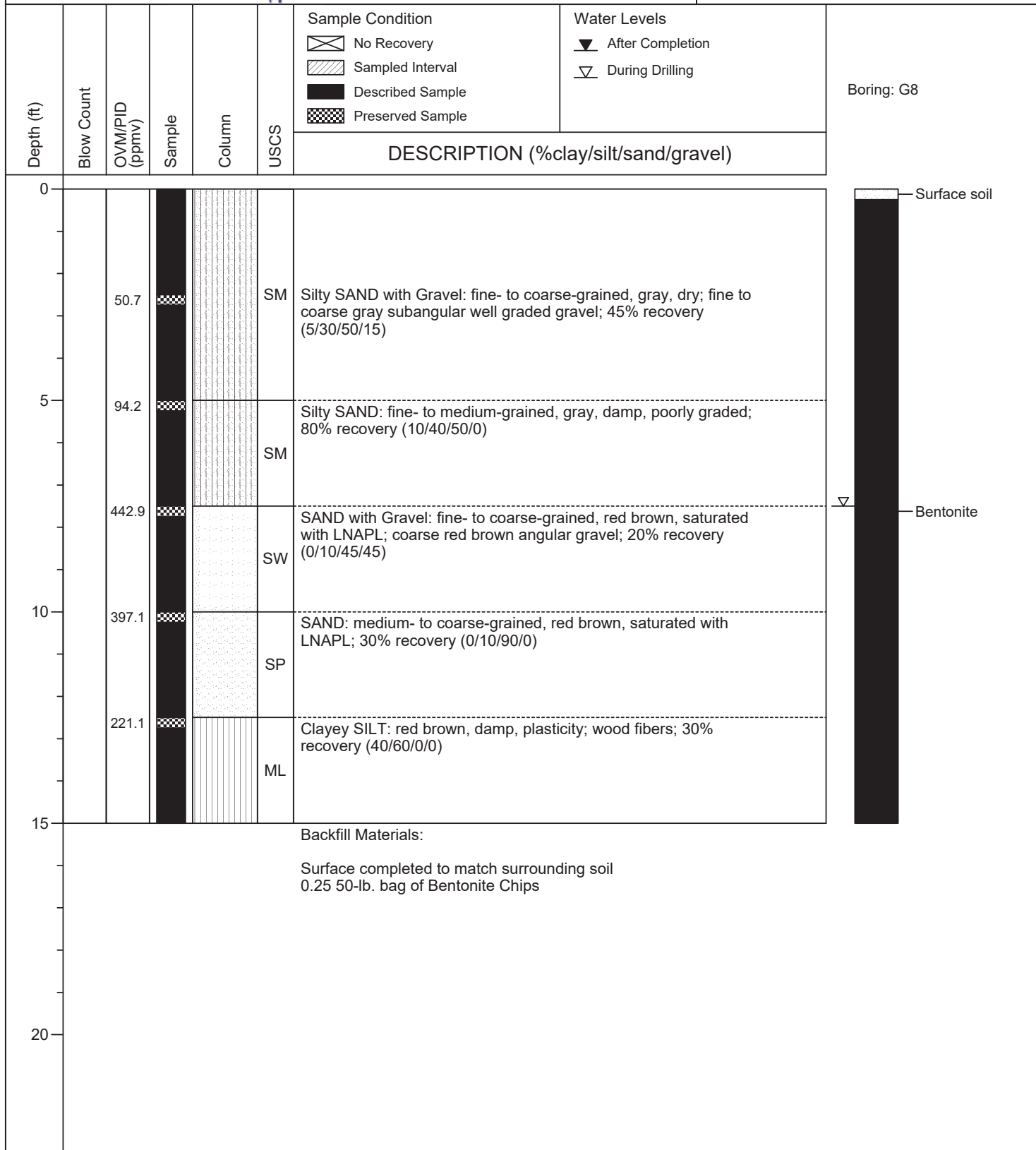


## BORING LOG G8

(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: : 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





## 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	Boring: H3
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> 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)		
1.1					ML	SILT: gray, dry; 100% recovery (10/70/20/0)		<div></div> Bentonite
10					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 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	Boring: H5
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		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)		Bentonite
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		
20								



## 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	Boring: H7
						<div>✕ No Recovery</div> <div>▨ Sampled Interval</div> <div>■ Described Sample</div> <div>▩ Preserved Sample</div>	<div>▼ After Completion</div> <div>▽ During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>✕</div> Asphalt
12.4			<div>▩</div>		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			<div>▩</div>			dark gray, damp; fine to coarse gray gravel; 100% recovery (10/35/45/10)		
37.3			<div>▩</div>			Silty SAND: fine- to medium-grained, dark gray, damp; coarse gray subangular gravel; 100% recovery (10/40/45/5)		Bentonite
32.9			<div>▩</div>		SM	no gravel; wood fragments; 80% recovery (10/40/50/0)		
16.2			<div>▩</div>			moist; 80% recovery		
15						Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips		
20								





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



## 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	Boring: I2
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> Asphalt
23.3						Silty SAND: fine-grained, dark gray, dry; fine gray subrounded moderately graded gravel; 50% recovery (10/40/45/5)		
38.9				SM		saturated; fine to coarse subrounded gravel; 15% recovery	<div><div></div></div>	
19.7						fine- to medium-grained, dark brown, moist; 30% recovery (10/40/50/0)		<div></div> Bentonite
21.6				ML		Clayey SILT: red brown, moist, plasticity; 30% recovery (40/60/0/0)		
9.5				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 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	Boring: I4
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
22.5				SM	Silty SAND: fine-grained, dark gray, damp; fine to coarse subrounded well graded gravel; 70% recovery (10/35/45/10)			
1.1				ML	SILT with Clay: gray and brown, dry, plasticity; 70% recovery (20/70/10/0)			
0.4					Clayey SILT: gray, dry, plasticity; 100% recovery (30/70/0/0)			<div><div></div>Bentonite</div>
0.2				ML	wet; 100% recovery		<div><div></div></div>	
0.2					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 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	Boring: I6
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
		12.3				Silty SAND: fine- to medium-grained, gray, dry; fine gray subrounded gravel; 80% recovery (10/40/45/5)		
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		<div>Bentonite</div>
10		25.9				red brown, saturated; red brown gravel; 80% recovery (10/35/45/10)		<div></div>
		5.2				dark gray; fine gray gravel; 80% recovery		
15		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		
20								



## 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: : Keri Chappell, L.G. 2719  
Signature: : Keri Chappell

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: I8
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0								Surface soil
413.2					SM	Silty SAND: fine- to medium-grained, dark gray, dry; 65% recovery (10/40/45/5)		
810.9						Clayey SILT: gray and brown, damp, plasticity; 50% recovery (40/60/0/0)		
357.1					ML	olive gray, moist, wood fragments; 15% recovery		Bentonite
535.6					SM	Silty SAND: fine- to medium-grained, red brown, saturated with LNAPL; 100% recovery (10/30/60/0)		
352.3					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 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	Boring: J3
						<div>✖ No Recovery</div> <div>▨ Sampled Interval</div> <div>■ Described Sample</div> <div>▩ Preserved Sample</div>	<div>▼ After Completion</div> <div>▽ During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>✖</div> 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		— Bentonite
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 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	Boring: J5	
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>		
DESCRIPTION (%clay/silt/sand/gravel)									
0						3" Asphalt		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					Silty SAND: medium-grained, gray, dry, wood fragments; 50% recovery (5/20/75/0)			Bentonite	
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 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	Boring: J7
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> 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						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)		Bentonite
322.9						Silty SAND: medium-grained, red brown, saturated with LNAPL; 15% recovery (5/20/75/0)		<div><div></div></div>
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 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	Boring: J9
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0								Surface soil
600.1						Silty SAND: fine-grained, dark gray, dry; coarse gray subangular gravel; 50% recovery (0/45/50/5)		
157.7					SM	saturated, LNAPL observed; fine subrounded gravel; 50% recovery (5/40/45/10)		
664.5						fine- to medium-grained, olive gray, LNAPL observed; 30% recovery (5/45/50/0)		Bentonite
851.2						medium-grained, olive brown, LNAPL observed; 30% recovery (0/40/60/0)		
992.1					ML	Clayey SILT: red brown, damp, wood fibers; 60% recovery		
14.1					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								



## 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	Boring: K2
						<div>No Recovery</div> <div>Sampled Interval</div> <div>Described Sample</div> <div>Preserved Sample</div>	<div>After Completion</div> <div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div></div> Asphalt
					ML	Sandy SILT: gray, dry; 100% recovery (5/50/40/5)		
5						Clayey SILT: brown, damp, plasticity; 70% recovery (30/60/10/0)		
					ML	moist; 70% recovery (40/60/0/0)		<div></div> Bentonite
10						Sandy SILT: dark gray, saturated; medium-grained sand; 70% recovery (10/60/30/0)		<div></div>
					ML	Clayey SILT: red brown, damp, plasticity, wood fibers; 70% recovery (30/60/10/0)		
15						Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips  PID inoperable during completion of this boring		
20								



## 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	Boring: K4
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div></div> Asphalt
						Clayey SILT: gray, dry, plasticity; 90% recovery (40/60/0/0)		
5					ML	gray and brown, damp; 35% recovery		
						No recovery		
10						Sandy SILT: gray, saturated; 10% recovery (0/70/30/0)	<div></div>	<div></div> Bentonite
					ML	No recovery		
15						Clayey SILT: red brown with black coating, wet, wood fibers; 90% recovery (40/60/0/0)		
					ML			
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 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	Boring: K6
						<div>No Recovery</div> <div>Sampled Interval</div> <div>Described Sample</div> <div>Preserved Sample</div>	<div>After Completion</div> <div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>Asphalt</div>
					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					ML	Sandy SILT: gray, moist; 100% recovery (10/60/30/0)		
					ML	Clayey SILT: gray, moist, plasticity; 100% recovery (40/60/0/0)		<div>Bentonite</div>
10					ML	Sandy SILT: gray, saturated; 40% recovery (5/65/30/0)	<div></div>	
					SP	SAND: medium-grained, gray, damp; 40% recovery (5/10/85/0)		
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 LOG K8

(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	Boring: K8
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						Grass		
					SM	Silty SAND: fine-grained, gray, dry; fine to coarse gray subrounded gravel; 70% recovery (5/40/50/5)		
5					ML	Sandy SILT: dark gray, damp; 70% recovery (10/60/30/0)		
					ML	Clayey SILT with Gravel: gray, moist, plasticity; fine gray subangular gravel; LNAPL observed (30/50/0/20)		
10					SM	Silty SAND: medium- to coarse-grained, gray, saturated; 70% recovery (0/20/80/0)		
					ML	Clayey SILT: red brown, damp, plasticity, wood fibers; 90% recovery (40/60/0/0)		
15						Backfill Materials:		
						Surface completed to match surrounding soil 0.25 50-lb. bag of Bentonite Chips		
						PID inoperable during completion of this boring		
20								



## 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	Boring: L1
						<div>✖ No Recovery</div> <div>▨ Sampled Interval</div> <div>■ Described Sample</div> <div>▩ Preserved Sample</div>	<div>▼ After Completion</div> <div>▽ During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>✖ Asphalt</div>
					ML	Sandy SILT: brown, wet; 25% recovery (10/60/30/0)		
5						gray, moist; 55% recovery		
					ML	Clayey SILT: brown, damp, wood fibers; 55% recovery (40/60/0/0)		<div>— Bentonite</div>
10					SM	Silty SAND: fine- to medium-grained, olive gray, saturated; 100% recovery (10/40/50/0)	▽	
					ML	Clayey SILT: brown, damp, wood fibers; 100% recovery (30/60/10/0)		
15						Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips  PID inoperable during completion of this boring		
20								



## 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	Boring: L3
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		Asphalt
					SM	Silty SAND: fine-grained, brown, dry; fine to coarse gray rounded well graded gravel; 100% recovery (5/40/50/5)		
5					ML	Clayey SILT: gray and brown, damp, wood fragments; 70% recovery (40/60/0/0)		
					ML	Sandy SILT with Clay: brown, damp, plasticity; 70% recovery (20/50/30/0)		Bentonite
10					ML	Sandy SILT: gray, saturated; 95% recovery (5/60/35/0)	▽	
					ML	Clayey SILT: brown, damp, wood fibers; 95% 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 LOG L5

(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	Boring: L5
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
					ML	SILT with Sand: gray, dry, plasticity; 100% recovery (10/70/20/0)		
5					ML	SILT: dark gray, damp, wood fragments throughout; 55% recovery (10/80/10/0)		
					ML	SILT with Sand and Clay: dark gray, damp, plasticity; fine- to medium-grained gray sand; 45% recovery (20/60/20/0)		<div>Bentonite</div>
10					ML	wet; 80% recovery (15/60/25/0)		<div></div>
					ML	Clayey SILT: red brown, damp, plasticity, wood fibers; 80% 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 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	Boring: L7
						<div>No Recovery</div> <div>Sampled Interval</div> <div>Described Sample</div> <div>Preserved Sample</div>	<div>After Completion</div> <div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>No Recovery</div> Asphalt
					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)		
					ML	SILT: black, moist, large wood fragments; 50% recovery (20/80/0/0)		Bentonite
10					SM	Silty SAND with Gravel: fine- to coarse-grained, black, wet; fine black angular gravel; wood fragments; 75% recovery (5/20/50/25)		<div>During Drilling</div>
					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								

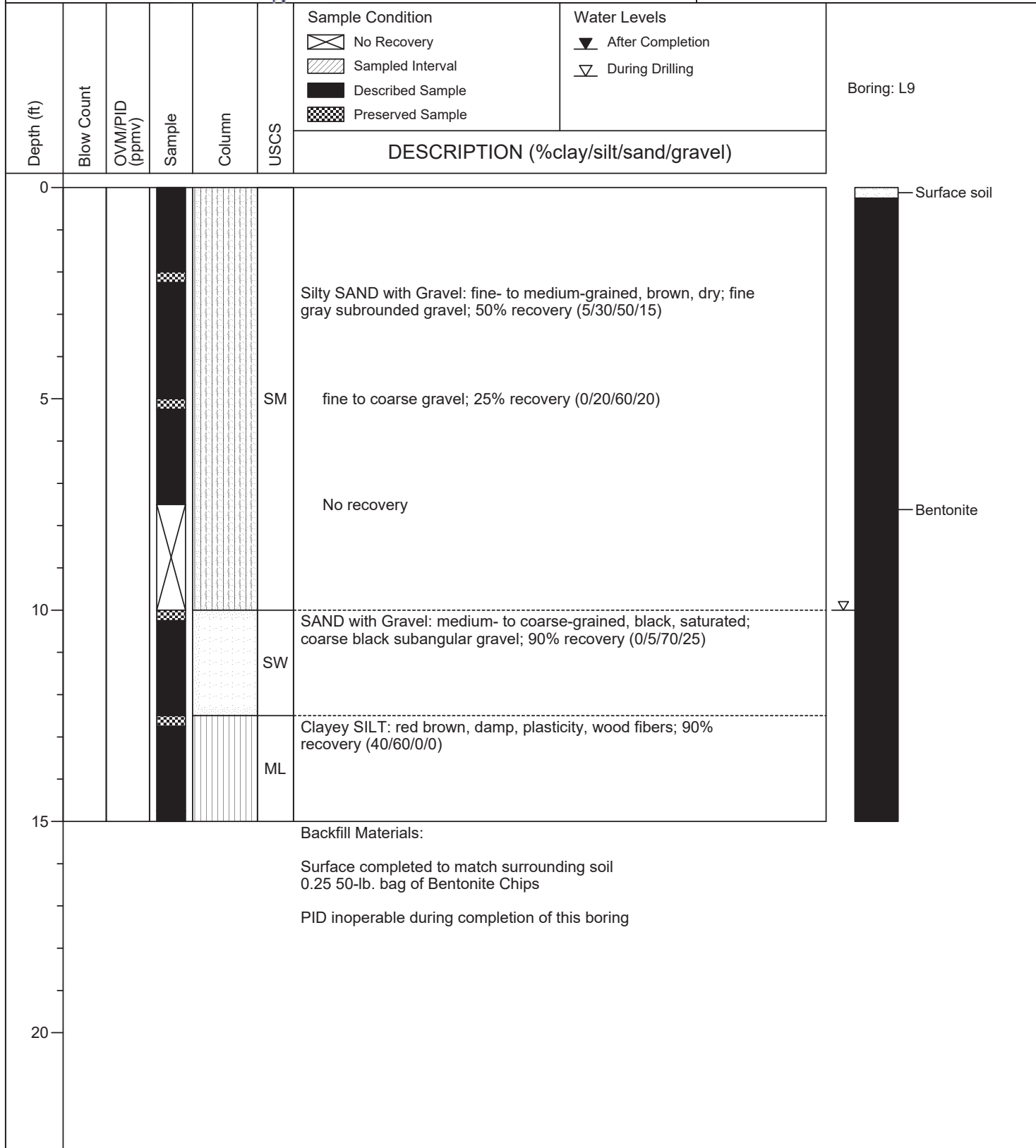


## BORING LOG L9

(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







## 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	Boring: M2
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		Asphalt
					ML	Clayey SILT: gray, dry, plasticity; 50% recovery (40/60/0/0)		
5					SM	Silty SAND: medium- to coarse-grained, olive brown, saturated, moderately graded; 50% recovery (10/30/60/0)		
					ML	Clayey SILT: dark brown, moist, wood fragments; 50% recovery (35/65/0/0)		Bentonite
10					ML	brown, wood fibers; 65% recovery (30/60/10/0)		
					SM	Silty SAND: fine- to medium-grained, dark gray, damp; 65% recovery (5/20/75/0)		
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 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: : Keri Chappell, L.G. 2719  
Signature: : Keri Chappell

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	Boring: M4
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		
					ML	Sandy SILT with Gravel: brown, dry; fine gray subrounded gravel; 70% recovery (5/40/35/20)		
5					SM	Silty SAND: fine- to medium-grained, gray and brown, dry; 40% recovery (10/40/50/0)		
					ML	SILT with Clay: red brown, damp, wood fragments; 40% recovery (20/80/0/0)		
10						Clayey SILT: brown, damp, plasticity; 100% recovery (30/60/10/0)		
					ML	100% 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 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	Boring: M6
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> Asphalt
					SM	Silty SAND: fine-grained, gray, dry; fine to coarse gray subrounded very well graded gravel; 100% recovery (5/40/45/10)		
5					ML	SILT with Sand: dark brown, dry, wood fragments; 65% recovery (10/70/20/0)		
					ML	SILT with Clay: dark gray, moist, plasticity, wood fragments; 65% recovery (20/70/10/0)		Bentonite
10					ML	Sandy SILT: dark gray, damp; coarse-grained gray sand; 90% recovery (20/50/30/0)		
					ML	Clayey SILT: red brown, damp, plasticity, wood fibers; 90% 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 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	Boring: M8
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> Asphalt
					ML	Sandy SILT with Clay: gray, damp, plasticity; 80% recovery (20/50/30/0)		
5					ML	Clayey SILT with Gravel: gray, moist, plasticity; fine gray subrounded gravel; 80% recovery (30/50/0/20)		
						Wood fragments with a black coating; 80% recovery		Bentonite
10					SM	Silty SAND: fine- to coarse-grained, gray, saturated; fine to coarse gray subrounded gravel; wood fragments; 100% recovery (10/30/50/10)	<div><div></div></div>	
					ML	Clayey SILT: 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  PID inoperable during completion of this boring		
20								

(Page 1 of 1)



## 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	Boring: N3
						<input type="checkbox"/> No Recovery <input checked="" type="checkbox"/> Sampled Interval <input checked="" type="checkbox"/> Described Sample <input checked="" type="checkbox"/> Preserved Sample	<input checked="" type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		Asphalt
						Sandy SILT: gray, dry; 50% recovery (10/60/30/0)		
5						saturated; 100% recovery (10/50/30/10)	<input checked="" type="checkbox"/>	
					ML	moist; 100% recovery (10/60/30/0)		
10						No recovery		Bentonite
						No recovery		
15						Clayey SILT: gray and brown, moist; 100% recovery (45/55/0/0)		
					ML			
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 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	Boring: N5
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div>Asphalt</div></div>
					SM	Silty SAND: fine-grained, brown, dry, wood fragments; fine gray subangular moderately graded gravel; 80% recovery (5/35/50/10)		
5					ML	Sandy SILT: gray, wet; 70% recovery (10/60/30/0)		<div><div>Bentonite</div></div>
					ML	Clayey SILT: gray and brown, damp, plasticity; 70% recovery (30/70/0/0)		
10					ML	Sandy SILT with Clay: brown, moist, plasticity; 70% recovery (20/50/30/0)		
					ML	Clayey SILT: red brown, damp, wood fibers; 70% recovery (40/60/0/0)		
15						Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips  PID inoperable during completion of this boring		
20								

(Page 1 of 1)



## BORING LOG O2

(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	Boring: O2
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div>No Recovery</div></div> Asphalt
					ML	Sandy SILT: brown, dry; 100% recovery (10/60/30/0)		
5					ML	Sandy SILT with Gravel: gray, saturated; fine gray subangular poorly graded gravel; 50% recovery (5/50/30/15)		<div><div>During Drilling</div></div>
					ML	Sandy SILT: brown, dry, wood fragments; 50% recovery (0/80/20/0)		Bentonite
10					ML	Clayey SILT: red brown, damp, wood fibers; 50% recovery (40/60/0/0)		
					SM	Silty SAND: fine-grained, dark gray, damp, wood fragments; 50% recovery (10/40/50/0)		
15						Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips  PID inoperable during completion of this boring		
20								

(Page 1 of 1)



## BORING LOG O6

(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	Boring: O6
						<div>No Recovery</div> <div>Sampled Interval</div> <div>Described Sample</div> <div>Preserved Sample</div>	<div>After Completion</div> <div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>Asphalt</div>
					SM	Silty SAND: fine- to medium-grained, gray, dry; fine gray subrounded well graded gravel; 100% recovery (5/40/45/10)		
5					ML	Clayey SILT: gray, damp, wood fragments; 100% recovery (45/55/0/0)		
					ML	Sandy SILT with Clay: gray, dry, plasticity; 100% recovery (20/50/30/0)		<div>Bentonite</div>
10					ML	Clayey SILT: brown, saturated, plasticity; 100% recovery (30/70/0/0)		<div></div>
					SM	Silty SAND: fine-grained, dark gray, moist; 100% recovery (10/40/50/0)		
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 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	Boring: O8
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
					SM	Silty SAND: fine-grained, gray, dry; 40% recovery (5/45/50/0)		
5						Sandy SILT: black, damp, wood fragments; 15% recovery (5/55/40/0)		
					ML	No recovery		<div>Bentonite</div>
10						Clayey Sandy SILT: red black, damp, wood fibers; 60% recovery (30/40/30/0)		
					ML	Clayey SILT: red brown, damp, wood fibers; 60% 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 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	Boring: P1
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
					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)		<div><div></div></div>
					SM	Silty SAND: fine- to medium-grained, brown, damp, wood fragments; 90% recovery (10/45/45/0)		<div><div></div>Bentonite</div>
10					ML	Clayey SILT: brown, damp, plasticity, wood fibers; 100% recovery (40/60/0/0)		
					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 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	Boring: P3
						<input type="checkbox"/> No Recovery <input checked="" type="checkbox"/> Sampled Interval <input type="checkbox"/> Described Sample <input checked="" type="checkbox"/> Preserved Sample	<input checked="" type="checkbox"/> After Completion <input type="checkbox"/> During Drilling	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		 Asphalt
						Silty SAND: fine-grained, black, damp; fine gray subrounded gravel; wood; 50% recovery (5/40/50/5)		
5					SM	No recovery		
						No recovery		
10						No recovery		
						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

 Bentonite



## 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	Boring: P5		
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>			
DESCRIPTION (%clay/silt/sand/gravel)										
0						3" Asphalt			<div></div> Asphalt	
					SM	Silty SAND with Gravel: fine-grained, brown, dry; fine gray subrounded gravel; 40% recovery (5/35/45/15)				
5					ML	Clayey SILT: brown, wet; 20% recovery (30/70/0/0)				
					SM	Silty SAND: fine- to medium-grained sand, brown, dry; 20% recovery (10/45/45/0)			Bentonite	
10					SM	Silty SAND with Gravel: fine- to medium-grained, olive brown, saturated; fine to coarse gray subrounded gravel; 100% recovery (0/30/50/20)			▽	
					ML	Clayey SILT: 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				
						PID inoperable during completion of this boring				
20										



## 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	Boring: P7
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div></div> Asphalt
					SM	Silty SAND: fine- to medium-grained, gray, damp; fine to coarse gray subangular gravel; 50% recovery (5/40/50/5)		
5					ML	Clayey SILT: brown, wet, plasticity; 20% recovery (30/70/0/0)		<div><div></div></div>
					SM	Silty SAND with Gravel: medium-grained, black, wet; coarse black subangular very well graded gravel; 20% recovery (5/25/50/20)		<div><div></div></div> Bentonite
10					ML	Clayey SILT: red brown, damp, wood fibers; 60% recovery (40/55/5/0)		
					ML	wood fragments; 50% 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 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	Boring: Q2
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div> <div><div>After Completion</div><div>During Drilling</div></div>		
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div>Asphalt</div></div>
					ML	Clayey SILT: gray and brown, dry, plasticity; 50% recovery (30/70/0/0)		
5					ML	SILT: brown, moist, plasticity; 20% recovery (25/70/5/0)		
					ML	Clayey SILT: brown, moist, plasticity; 20% recovery (30/70/0/0)		<div><div>Bentonite</div></div>
10					ML	Sandy SILT: gray, wet; 20% recovery (10/50/40/0)	<div><div></div></div>	
					ML	Clayey SILT: gray, wet, plasticity; 20% recovery (40/60/0/0)		
15						Backfill Materials: 0.1 50-lb. bag of Asphalt 0.25 50-lb. bag of Bentonite Chips  PID inoperable during completion of this boring		
20								



# BORING LOG Q4

(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	Boring: Q4
						<div>✖ No Recovery</div> <div>▨ Sampled Interval</div> <div>■ Described Sample</div> <div>▤ Preserved Sample</div>	<div>▼ After Completion</div> <div>▽ During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div>✖ Asphalt</div>
					ML	Clayey SILT: brown and gray, dry, plasticity; 90% recovery (30/70/0/0)		
5					ML	Sandy SILT: dark gray, saturated; fine-grained sand; 100% recovery (0/70/30/0)	▽	
					SM	Silty SAND: fine-grained, gray and brown, damp; 100% recovery (10/40/50/0)		— Bentonite
10					ML	Clayey SILT: gray, moist, plasticity; 90% recovery (40/60/0/0)		
					ML	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  PID inoperable during completion of this boring		
20								





## 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	Boring: Q6
						<div><div></div> No Recovery</div> <div><div></div> Sampled Interval</div> <div><div></div> Described Sample</div> <div><div></div> Preserved Sample</div>	<div><div></div> After Completion</div> <div><div></div> During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div> Asphalt</div>
					SM	Silty SAND with Gravel: fine-grained, black, dry; fine gray subrounded gravel; wood fragments; 100% recovery (0/40/45/15)		
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)		<div>Bentonite</div>
10					ML	Clayey SILT: gray and brown, moist (40/60/0/0)		
					SM	Silty SAND: fine-grained, gray, wet (5/40/55/0)		<div></div>
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 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	Boring: R1
						<div><div>No Recovery</div><div>Sampled Interval</div><div>Described Sample</div><div>Preserved Sample</div></div>	<div><div>After Completion</div><div>During Drilling</div></div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div>Asphalt</div></div>
					SM	Silty SAND: fine- to medium-grained, dark gray, dry; 30% recovery (10/40/50/0)		
5					ML	Sandy SILT: gray, dry; fine-grained sand; 30% recovery (10/60/30/0)		
					SM	Silty SAND: medium-grained, dark gray, dry; 15% recovery (10/30/60/0)		<div><div>Bentonite</div></div>
10					ML	fine- to medium-grained, gray, moist; 50% recovery (10/40/50/0)	<div><div></div></div>	
					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								

(Page 1 of 1)

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# 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	Boring: S4
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
					ML	Clayey SILT: brown, damp, plasticity; 60% recovery (40/60/0/0)		
5						gray, moist; 100% recovery (30/60/10/0)		
					SM	Silty SAND: fine-grained, gray, moist; 100% recovery (20/30/50/0)		
10						100% recovery (10/40/50/0)		
					ML	Clayey SILT: red brown, dry, wood fibers; 100% recovery (40/60/0/0)		
						Refusal at 14' bgs		
15						Backfill Materials:		
						0.1 50-lb. bag of Asphalt		
						0.25 50-lb. bag of Bentonite Chips		
						PID inoperable during completion of this boring		
20								



(Page 1 of 1)



## 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	Boring: T3
						<div><div></div>No Recovery</div> <div><div></div>Sampled Interval</div> <div><div></div>Described Sample</div> <div><div></div>Preserved Sample</div>	<div><div></div>After Completion</div> <div><div></div>During Drilling</div>	
DESCRIPTION (%clay/silt/sand/gravel)								
0						3" Asphalt		<div><div></div>Asphalt</div>
						Clayey SILT: gray and brown, damp, plasticity; 70% recovery (30/70/0/0)		
5					ML	moist; 75% recovery		
						gray, dry; 75% recovery		<div>Bentonite</div>
10					SM	Silty SAND: fine- to medium-grained, dark gray, damp; 40% recovery (5/40/55/0)		
					ML	Clayey SILT: red brown, damp, plasticity, wood fibers; 65% 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								

# **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.

Eurofins Calscience LLC

# Client Sample Results

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**

## 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**

**Date Collected: 08/09/21 09:40**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-2**

**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)	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**

**Date Collected: 08/09/21 09:45**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-3**

**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)	1.3		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

Date Collected: 08/09/21 09:50

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-4

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)	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

Date Collected: 08/09/21 09:55

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-5

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)	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

Date Collected: 08/09/21 10:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-6

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)	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

Date Collected: 08/09/21 10:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-7

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)	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

Date Collected: 08/09/21 10:10

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-8

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)	0.56		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

Date Collected: 08/09/21 10:40

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-9

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)	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

Eurofins Calscience LLC

# 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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		50 - 150			08/16/21 13:37	08/19/21 05:40	1000

## Method: NWTPH-Dx - 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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	128		50 - 150			08/20/21 16:23	08/25/21 06:39	25

**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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150			08/16/21 13:37	08/19/21 03:42	250

## Method: NWTPH-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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			08/20/21 16:23	08/25/21 07:00	20

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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

Date Collected: 08/09/21 14:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-37

Matrix: 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		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

Date Collected: 08/09/21 14:10

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-38

Matrix: Solid

### 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

Date Collected: 08/09/21 14:15

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-39

Matrix: Solid

### 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**

**Date Collected: 08/09/21 14:35**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-43**

**Matrix: 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		27	mg/Kg	☆	08/16/21 13:37	08/20/21 20:01	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150			08/16/21 13:37	08/20/21 20:01	100

## Method: NWTPH-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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110		50 - 150			08/20/21 16:35	08/26/21 13:17	10

**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**

## 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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		50 - 150			08/16/21 13:37	08/20/21 20:24	100

## Method: NWTPH-Dx - 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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	125		50 - 150			08/20/21 16:35	08/25/21 21:40	10

**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**

## 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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
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

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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-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

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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-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

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-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

Date Collected: 08/10/21 08:20

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-71

Matrix: 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	☆	08/16/21 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

Date Collected: 08/10/21 08:25

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-72

Matrix: 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		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

Date Collected: 08/10/21 08:30

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-73

Matrix: 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		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

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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-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

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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-G6

Date Collected: 08/10/21 10:00

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-86

Matrix: 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 18:59	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

Date Collected: 08/10/21 10:05

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-87

Matrix: 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		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

Date Collected: 08/10/21 10:10

Date Received: 08/12/21 10:15

## Lab Sample ID: 570-66942-88

Matrix: Solid

### 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

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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-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**

**Date Collected: 08/10/21 12:50**

**Date Received: 08/12/21 10:15**

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

**Matrix: 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		31	mg/Kg	☆	08/16/21 13:53	08/22/21 06:37	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		50 - 150			08/16/21 13:53	08/22/21 06:37	100

## Method: NWTPH-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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	131		50 - 150			08/20/21 16:59	08/28/21 18:14	1

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

**Date Collected: 08/10/21 12:55**

**Date Received: 08/12/21 10:15**

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

**Matrix: Solid**

## 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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			08/16/21 13:53	08/22/21 07:01	100

## Method: NWTPH-Dx - 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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		50 - 150			08/20/21 16:59	08/28/21 18:36	1

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

**Date Collected: 08/10/21 13:05**

**Date Received: 08/12/21 10:15**

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

**Matrix: Solid**

## 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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
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

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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-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

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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-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

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# 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

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# 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

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# 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

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)
570-66942-127	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

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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)											

# 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

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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 570-172337/3

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		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
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

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)			2.11	1.852		mg/Kg		88	77 - 128	0	16
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
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
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		50 - 150				

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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: 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
Surrogate	%Recovery	LCSD Qualifier	Limits						
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150				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
Surrogate	%Recovery	LCS Qualifier	Limits				
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
Surrogate	%Recovery	LCSD Qualifier	Limits						
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		50 - 150				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		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
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

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)			2.13	1.828		mg/Kg		86	77 - 128	1	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
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

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

Eurofins Calscience LLC

# 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	LCSD Result	LCSD 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
Surrogate	%Recovery	LCSD Qualifier	Limits						
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
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		
TPH as Gasoline (C4-C13)	2.12	1.742		mg/Kg		82	77 - 128		
Surrogate	%Recovery	LCS Qualifier	Limits						
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	LCSD Result	LCSD 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
Surrogate	%Recovery	LCSD Qualifier	Limits						
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 150				08/21/21 12:23	1

Eurofins Calscience LLC

# 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				

Eurofins Calscience LLC

# 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
Surrogate	%Recovery	LCSD Qualifier	Limits						
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
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	
Surrogate	%Recovery	LCS Qualifier	Limits					
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
Surrogate	%Recovery	LCSD Qualifier	Limits						
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
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

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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 570-173459/3

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		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
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

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Gasoline (C4-C13)			2.12	1.680		mg/Kg	-	79	77 - 128	9	16
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
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
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
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
Surrogate	%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

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
TPH as Gasoline (C4-C13)			2.12	2.130		mg/Kg		100	77 - 128		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		50 - 150								

Eurofins Calscience LLC

# 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
Surrogate	%Recovery	LCSD Qualifier	Limits						
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
Surrogate	%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	%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	%Recovery	LCSD Qualifier	Limits						
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
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	113		50 - 150			08/20/21 16:19	08/24/21 12:36	1

Eurofins Calscience LLC

# 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		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
n-Octacosane (Surr)		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		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
n-Octacosane (Surr)		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
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)		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
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)		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		
Surrogate		MS %Recovery	MS Qualifier	Limits							
n-Octacosane (Surr)		114		50 - 150							

Eurofins Calscience LLC

# 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
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	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	RPD Limit
TPH as Diesel (C10-C28)	72		463	556.7		mg/Kg	✱	105	37 - 175	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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	RPD Limit
TPH as Motor Oil (C17-C44)	530	F1 F2	464	837.2	F1 F2	mg/Kg	✱	66	71 - 174	31	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	117		50 - 150								

Lab Sample ID: MB 570-173215/1-A

Matrix: Solid

Analysis Batch: 173940

Client Sample ID: Method Blank

Prep Type: Silica Gel Cleanup

Prep Batch: 173215

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
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	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
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	106		50 - 150				

Eurofins Calscience LLC

# 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		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
n-Octacosane (Surr)	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

Top Data: 17010							Top Data: 17010				
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
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	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

			Spike	LCSD	LCSD				%Rec.	RPD	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
TPH as Diesel (C10-C28)			400	424.7		mg/Kg		106	76 - 126	1	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	109		50 - 150								

Lab Sample ID: 570-66942-23 MS

Matrix: Solid

Analysis Batch: 173940

Client Sample ID: S-2.5-E8

Prep Type: Silica Gel Cleanup

Prep Batch: 173215

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		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	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		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	110		50 - 150								

Eurofins Calscience LLC



# 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
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	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		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
n-Octacosane (Surr)	103		50 - 150								

Lab Sample ID: LCS 570-173220/2-A

Matrix: Solid

Analysis Batch: 174335

Client Sample ID: Lab Control Sample

Prep Type: Silica Gel Cleanup

Prep Batch: 173220

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		
Surrogate			LCS %Recovery	LCS Qualifier	Limits						
n-Octacosane (Surr)			110		50 - 150						

Eurofins Calscience LLC

# 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
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	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
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	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		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	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		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	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
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	147		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: 570-66942-49 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
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	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
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	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
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	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
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	114		50 - 150						

Eurofins Calscience LLC

# 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
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	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		
TPH as Diesel (C10-C28)	470		1140	1353		mg/Kg	✱	77	37 - 175		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	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		
TPH as Motor Oil (C17-C44)	450		1150	1541		mg/Kg	✱	95	71 - 174		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	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
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	116		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: 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	Limits	%Rec.
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	Limits	%Rec.
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	Limits	%Rec.	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	Limits	%Rec.	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							

Eurofins Calscience LLC

# 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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Diesel (C10-C28)	1900	F2 F1	514	1571	F1	mg/Kg	✱	-60	37 - 175
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH as Motor Oil (C17-C44)	1300	F1	516	1859	E	mg/Kg	✱	100	71 - 174
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Diesel (C10-C28)	1900	F2 F1	512	1944	F2 F1	mg/Kg	✱	12	37 - 175	21	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
TPH as Motor Oil (C17-C44)	1300	F1	518	1518	E F1	mg/Kg	✱	33	71 - 174	20	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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 Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
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
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	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
Surrogate		LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)		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
Surrogate		LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)		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 Limit
TPH as Motor Oil (C17-C44)			400	421.6		mg/Kg		105	71 - 139	8 20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)		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 Limit
TPH as Diesel (C10-C28)			400	454.5		mg/Kg		114	76 - 126	6 20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)		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	✱		
Surrogate		MS %Recovery	MS Qualifier	Limits					
n-Octacosane (Surr)									

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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: 570-66942-102 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
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	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	✱				
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)											

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
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	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
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	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	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
n-Octacosane (Surr)	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
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)	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
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)	113		50 - 150							

Lab Sample ID: 570-66942-122 MS

Matrix: Solid

Analysis Batch: 175125

Client Sample ID: S-12.5-J7

Prep Type: Silica Gel Cleanup

Prep Batch: 173229

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	
Surrogate	MS %Recovery	MS Qualifier	Limits							
n-Octacosane (Surr)	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	
Surrogate	MS %Recovery	MS Qualifier	Limits							
n-Octacosane (Surr)	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: 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C28)	790	F2 F1	786	1317	F2	mg/Kg	✱	67	37 - 175	57	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)	530	F2 F1	776	2128	E F1 F2	mg/Kg	✱	206	71 - 174	42	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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	

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# 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	

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# 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

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# 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	
LCSD 570-173229/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
LCSD 570-173229/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-122 MS	S-12.5-J7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-122 MS	S-12.5-J7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-122 MSD	S-12.5-J7	Silica Gel Cleanup	Solid	3550C SGC	
570-66942-122 MSD	S-12.5-J7	Silica Gel Cleanup	Solid	3550C SGC	

### Analysis Batch: 173940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-2	S-7.5-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-3	S-10-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-4	S-12.5-C2	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-5	S-5-C4	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-6	S-7.5-C4	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-7	S-10-C4	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-8	S-12.5-C4	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-9	S-2.5-C6	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-11	S-7.5-C6	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-12	S-10-C6	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-13	S-2.5-C8	Silica Gel Cleanup	Solid	NWTPH-Dx	173212
570-66942-14	S-5-C8	Silica Gel Cleanup	Solid	NWTPH-Dx	173212

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# 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

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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: 175125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-118	S-2.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-119	S-5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-120	S-7.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-122	S-12.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-123	S-14.5-I6	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-124	S-2.5-J5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-126	S-7.5-J5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-127	S-10-J5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-129	S-2.5-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-131	S-7.5-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-132	S-10-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-133	S-12.5-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-134	S-14.5-H5	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-135	S-5-D5 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-136	S-10-E4 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-137	S-10-D1 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-140	S-5-H5 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-141	S-7.5-H7 DUP	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
MB 570-173229/1-A	Method Blank	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
LCS 570-173229/26-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
LCS 570-173229/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
LCSD 570-173229/27-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
LCSD 570-173229/3-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-122 MS	S-12.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-122 MS	S-12.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-122 MSD	S-12.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173229
570-66942-122 MSD	S-12.5-J7	Silica Gel Cleanup	Solid	NWTPH-Dx	173229

### Analysis Batch: 175154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-90	S-10-F7	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-91	S-12.5-F7	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-92	S-2.5-G8	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-93	S-5-G8	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-94	S-7.5-G8	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-95	S-10-G8	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-96	S-12.5-G8	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-97	S-2.5-F9	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-98	S-5-F9	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-99	S-7.5-F9	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-100	S-10-F9	Silica Gel Cleanup	Solid	NWTPH-Dx	173226
570-66942-101	S-12.5-F9	Silica Gel Cleanup	Solid	NWTPH-Dx	173226

### Analysis Batch: 175226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-88 - DL	S-5-F7	Silica Gel Cleanup	Solid	NWTPH-Dx	173226

### Analysis Batch: 175228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66942-109	S-5-H7	Silica Gel Cleanup	Solid	NWTPH-Dx	173228
570-66942-114	S-5-I6	Silica Gel Cleanup	Solid	NWTPH-Dx	173228

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## QC Association Summary

Client: Cardno, Inc  
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		1	5 g	5 mL	171922	08/17/21 16:14	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			174335	08/26/21 12:34	A1W	ECL 1
		Instrument ID: GC48								

**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		20	5 mL	5 mL	173135	08/20/21 18:50	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 16:33	A1W	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	171922	08/17/21 17:25	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.96 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 16:54	A1W	ECL 1
		Instrument ID: GC48								

**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		250	5 mL	5 mL	172815	08/19/21 22:50	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.92 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 17:15	A1W	ECL 1
		Instrument ID: GC48								

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# 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		250	5 mL	5 mL	172559	08/19/21 06:27	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.94 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 17:37	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-7.5-C4**

**Date Collected: 08/09/21 10:00**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-6**

**Matrix: Solid**

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		50	5 mL	5 mL	173135	08/20/21 19:14	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 17:58	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-10-C4**

**Date Collected: 08/09/21 10:05**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-7**

**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		100	5 mL	5 mL	173459	08/23/21 15:35	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 18:19	A1W	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	171922	08/17/21 20:10	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 18:41	A1W	ECL 1
		Instrument ID: GC48								

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# 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		1	5 g	5 mL	171922	08/17/21 20:33	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			173940	08/24/21 19:02	A1W	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	172337	08/18/21 14:02	P1R	ECL 2
		Instrument ID: GC57								
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	DL	5			175333	08/30/21 15:43	UJ3K	ECL 1
		Instrument ID: GC50								

**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		50	5 mL	5 mL	172337	08/18/21 16:23	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			173940	08/24/21 20:29	A1W	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	171922	08/17/21 21:44	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 20:51	A1W	ECL 1
		Instrument ID: GC48								

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# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-2.5-C8**

**Date Collected: 08/09/21 11:35**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-13**

**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			8.069 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	171922	08/17/21 22:08	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 21:12	A1W	ECL 1
Instrument ID: GC48										

**Client Sample ID: S-5-C8**

**Date Collected: 08/09/21 11:40**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-14**

**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			5.411 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	171922	08/17/21 22:31	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 21:34	A1W	ECL 1
Instrument ID: GC48										

**Client Sample ID: S-7.5-C8**

**Date Collected: 08/09/21 11:45**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-15**

**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			6.919 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	171922	08/17/21 22:55	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 21:55	A1W	ECL 1
Instrument ID: GC48										

**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**

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		250	5 mL	5 mL	172559	08/19/21 06:51	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			173940	08/24/21 22:17	A1W	ECL 1
Instrument ID: GC48										

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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-C8**

**Lab Sample ID: 570-66942-17**

**Date Collected: 08/09/21 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			5.106 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172559	08/19/21 10:52	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			173940	08/24/21 22:39	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-2.5-D9**

**Lab Sample ID: 570-66942-18**

**Date Collected: 08/09/21 12:00**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

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		1	5 g	5 mL	172337	08/18/21 14:25	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/24/21 23:01	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-5-D9**

**Lab Sample ID: 570-66942-19**

**Date Collected: 08/09/21 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			6.544 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	172337	08/18/21 14:49	P1R	ECL 2
		Instrument ID: GC57								
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		2			173940	08/24/21 23:22	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-7.5-D9**

**Lab Sample ID: 570-66942-20**

**Date Collected: 08/09/21 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			5.497 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	172559	08/19/21 04:53	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173212	08/20/21 16:19	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		50			173940	08/25/21 13:09	A1W	ECL 1
		Instrument ID: GC48								

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# 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		250	5 mL	5 mL	172559	08/19/21 10:29	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			173940	08/25/21 03:02	A1W	ECL 1
		Instrument ID: GC48								

**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		20	5 mL	5 mL	172337	08/18/21 18:21	P1R	ECL 2
		Instrument ID: GC57								
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		1			173940	08/25/21 04:06	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-2.5-E8**

**Date Collected: 08/09/21 12:25**

**Date Received: 08/12/21 10:15**

**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		1	5 g	5 mL	172337	08/18/21 15:12	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/25/21 04:28	A1W	ECL 1
		Instrument ID: GC48								

**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		500	5 mL	5 mL	172559	08/19/21 05:16	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			173940	08/25/21 04:50	A1W	ECL 1
		Instrument ID: GC48								

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# 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		250	5 mL	5 mL	172559	08/19/21 11:16	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC	DL		10.20 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			173940	08/25/21 14:57	A1W	ECL 1
Instrument ID: GC48										

**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		250	5 mL	5 mL	172559	08/19/21 11:39	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC	DL		10.15 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			173940	08/25/21 15:34	A1W	ECL 1
Instrument ID: GC48										

**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		50	5 mL	5 mL	173459	08/23/21 15:59	A9VE	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC	DL		10.05 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			173940	08/25/21 13:31	A1W	ECL 1
Instrument ID: GC48										

**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		100	5 mL	5 mL	172337	08/18/21 16:47	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.25 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			173940	08/25/21 06:16	A1W	ECL 1
Instrument ID: GC48										

# 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		1000	5 mL	5 mL	172559	08/19/21 05:40	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.21 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		25			173940	08/25/21 06:39	A1W	ECL 1
		Instrument ID: GC48								

**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		250	5 mL	5 mL	172559	08/19/21 03:42	P1R	ECL 2
		Instrument ID: GC57								
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		20			173940	08/25/21 07:00	A1W	ECL 1
		Instrument ID: GC48								

**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		250	5 mL	5 mL	172559	08/19/21 12:26	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.20 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		20			173940	08/25/21 07:21	A1W	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	172559	08/19/21 08:02	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/25/21 07:43	A1W	ECL 1
		Instrument ID: GC48								

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# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-2.5-E6**

**Lab Sample ID: 570-66942-33**

**Date Collected: 08/09/21 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			9.893 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172815	08/19/21 22:03	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			173940	08/25/21 08:05	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-5-E6**

**Lab Sample ID: 570-66942-34**

**Date Collected: 08/09/21 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			5.908 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172815	08/19/21 21:39	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.00 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	100			173940	08/25/21 13:53	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-7.5-E6**

**Lab Sample ID: 570-66942-35**

**Date Collected: 08/09/21 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			5.015 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 15:35	P1R	ECL 2
		Instrument ID: GC25								
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		2			173940	08/25/21 08:50	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-10-E6**

**Lab Sample ID: 570-66942-36**

**Date Collected: 08/09/21 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			5.993 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	172815	08/19/21 20:52	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			173940	08/25/21 14:14	A1W	ECL 1
		Instrument ID: GC48								



# Lab Chronicle

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**

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		50	5 mL	5 mL	173459	08/23/21 16:23	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173940	08/25/21 09:33	A1W	ECL 1
		Instrument ID: GC48								

**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**

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		250	5 mL	5 mL	172815	08/19/21 20:04	P1R	ECL 2
		Instrument ID: GC57								
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		1			173940	08/25/21 09:55	A1W	ECL 1
		Instrument ID: GC48								

**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**

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		250	5 mL	5 mL	172815	08/19/21 19:41	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173215	08/20/21 16:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			173940	08/25/21 14:36	A1W	ECL 1
		Instrument ID: GC48								

**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**

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		20	5 mL	5 mL	173135	08/20/21 19:37	A9VE	ECL 2
		Instrument ID: GC56								
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		1			173940	08/25/21 10:38	A1W	ECL 1
		Instrument ID: GC48								

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# 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		250	5 mL	5 mL	172815	08/19/21 19:17	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 12:55	A1W	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	172559	08/19/21 08:55	P1R	ECL 2
		Instrument ID: GC57								
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		1			174335	08/25/21 20:56	A1W	ECL 1
		Instrument ID: GC48								

**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		100	5 mL	5 mL	173135	08/20/21 20:01	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		10			174335	08/26/21 13:17	A1W	ECL 1
		Instrument ID: GC48								

**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		100	5 mL	5 mL	173135	08/20/21 20:24	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/25/21 21:40	A1W	ECL 1
		Instrument ID: GC48								

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# Lab Chronicle

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

Job ID: 570-66942-1

**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**

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		20	5 mL	5 mL	173340	08/21/21 16:28	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174335	08/25/21 22:01	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-10-E4**

**Lab Sample ID: 570-66942-46**

**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			3.779 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	173340	08/21/21 16:51	A9VE	ECL 2
		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		1			174335	08/25/21 22:24	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-12.5-E4**

**Lab Sample ID: 570-66942-47**

**Date Collected: 08/09/21 14:55**

**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			6.318 g	5 g	171696	08/16/21 13:38	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173454	08/23/21 18:21	P1R	ECL 2
		Instrument ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.19 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174335	08/25/21 22:45	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-2.5-D3**

**Lab Sample ID: 570-66942-48**

**Date Collected: 08/09/21 15:00**

**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			6.592 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/20/21 21:59	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.18 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 13:39	A1W	ECL 1
		Instrument ID: GC48								

# Lab Chronicle

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**

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**

**Date Collected: 08/09/21 15:10**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-50**

**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			6.31 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**

**Date Collected: 08/09/21 15:15**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-51**

**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			6.918 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**

**Date Collected: 08/09/21 15:20**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-52**

**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			6.231 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								

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# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-2.5-E2**

**Date Collected: 08/09/21 15:25**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-53**

**Matrix: Solid**

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**

**Date Collected: 08/09/21 15:30**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-54**

**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			4.432 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**

**Date Collected: 08/09/21 15:35**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-55**

**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			6.178 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**

**Date Collected: 08/09/21 15:40**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-56**

**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			6.859 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								

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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-E2**

**Lab Sample ID: 570-66942-57**

**Date Collected: 08/09/21 15:45**

**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			5.397 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173459	08/23/21 12:27	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174335	08/26/21 09:41	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-2.5-D1**

**Lab Sample ID: 570-66942-58**

**Date Collected: 08/09/21 15:50**

**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			7.214 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/21/21 03:06	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.26 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			174335	08/26/21 10:03	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-5-D1**

**Lab Sample ID: 570-66942-59**

**Date Collected: 08/09/21 15:55**

**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			7.375 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173135	08/21/21 03:29	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 10:24	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-7.5-D1**

**Lab Sample ID: 570-66942-60**

**Date Collected: 08/09/21 16:00**

**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			4.15 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173340	08/21/21 14:04	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173220	08/20/21 16:35	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174335	08/26/21 10:46	A1W	ECL 1
		Instrument ID: GC48								

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# 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								

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# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-10-G2**

**Lab Sample ID: 570-66942-66**

**Date Collected: 08/10/21 07:55**

**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			6.745 g	5 g	171696	08/16/21 13:40	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	173340	08/21/21 15:39	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 01:53	N5Y3	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-12.5-G2**

**Lab Sample ID: 570-66942-67**

**Date Collected: 08/10/21 08:00**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

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		1	5 g	5 mL	173340	08/21/21 14:51	A9VE	ECL 2
		Instrument ID: GC56								
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		1			175006	08/28/21 02:15	N5Y3	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-2.5-F3**

**Lab Sample ID: 570-66942-68**

**Date Collected: 08/10/21 08:05**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

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		100	5 mL	5 mL	173304	08/21/21 09:04	A9VE	ECL 2
		Instrument ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.05 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175125	08/28/21 21:10	N5Y3	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-5-F3**

**Lab Sample ID: 570-66942-69**

**Date Collected: 08/10/21 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			6.676 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173304	08/21/21 09:28	A9VE	ECL 2
		Instrument ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 02:58	N5Y3	ECL 1
		Instrument ID: GC48								

# 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		1	5 g	5 mL	173340	08/21/21 15:15	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.02 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 03:20	N5Y3	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-12.5-F3**

**Lab Sample ID: 570-66942-71**

**Date Collected: 08/10/21 08:20**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

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		1	5 g	5 mL	173959	08/24/21 18:01	P1R	ECL 2
		Instrument ID: GC57								
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		1			175006	08/28/21 03:44	N5Y3	ECL 1
		Instrument ID: GC48								

**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		100	5 mL	5 mL	173152	08/21/21 00:02	P1R	ECL 2
		Instrument ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.33 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175125	08/28/21 21:31	N5Y3	ECL 1
		Instrument ID: GC48								

**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		100	5 mL	5 mL	173152	08/21/21 14:09	P1R	ECL 2
		Instrument ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 05:10	N5Y3	ECL 1
		Instrument ID: GC48								

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# 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**

**Date Collected: 08/10/21 09:20**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-78**

**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			5.233 g	5 mL	171695	08/16/21 13:37	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173152	08/21/21 12:35	P1R	ECL 2
		Instrument ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC	DL		9.92 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			175125	08/28/21 21:53	N5Y3	ECL 1
		Instrument ID: GC48								

**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**

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		100	5 mL	5 mL	173152	08/21/21 13:04	P1R	ECL 2
		Instrument ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC	DL		9.98 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175125	08/28/21 22:16	N5Y3	ECL 1
		Instrument ID: GC48								

**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**

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		100	5 mL	5 mL	173152	08/21/21 13:35	P1R	ECL 2
		Instrument ID: GC25								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.05 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175125	08/28/21 22:39	N5Y3	ECL 1
		Instrument ID: GC48								

**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**

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		1	5 g	5 mL	173459	08/23/21 13:14	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	173225	08/20/21 16:52	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 08:04	N5Y3	ECL 1
		Instrument ID: GC48								

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# 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								

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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-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								

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# 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**

**Lab Sample ID: 570-66942-94**

**Date Collected: 08/10/21 10:45**

**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			6.775 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**

**Lab Sample ID: 570-66942-95**

**Date Collected: 08/10/21 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			6.06 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**

**Lab Sample ID: 570-66942-96**

**Date Collected: 08/10/21 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			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**

**Lab Sample ID: 570-66942-97**

**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 13:37	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**

**Date Collected: 08/10/21 11:20**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-98**

**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			5.757 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**

**Date Collected: 08/10/21 11:25**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-99**

**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			6.238 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**

**Date Collected: 08/10/21 11:30**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-100**

**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			7.527 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**

**Date Collected: 08/10/21 11:35**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-101**

**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			3.559 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								

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# 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		20	5 mL	5 mL	173459	08/23/21 17:10	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.96 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175006	08/28/21 11:20	N5Y3	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-2.5-I8**

**Lab Sample ID: 570-66942-103**

**Date Collected: 08/10/21 11:45**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

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		100	5 mL	5 mL	173418	08/22/21 00:43	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		10			175006	08/28/21 11:42	N5Y3	ECL 1
		Instrument ID: GC48								

**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		500	5 mL	5 mL	173459	08/23/21 20:36	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175125	08/28/21 13:56	N5Y3	ECL 1
		Instrument ID: GC48								

**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		100	5 mL	5 mL	173418	08/22/21 01:30	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		1			175125	08/28/21 14:17	N5Y3	ECL 1
		Instrument ID: GC48								

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# Lab Chronicle

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

Job ID: 570-66942-1

**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**

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**

**Date Collected: 08/10/21 12:05**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-107**

**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			3.085 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**

**Date Collected: 08/10/21 12:10**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-108**

**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			6.926 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**

**Date Collected: 08/10/21 12:15**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-109**

**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			6.474 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								

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# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-7.5-H7**

**Date Collected: 08/10/21 12:20**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-110**

**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			5.942 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 03:28	P1R	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.01 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 16:05	N5Y3	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-10-H7**

**Date Collected: 08/10/21 12:25**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-111**

**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			5.669 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 03:52	P1R	ECL 2
		Instrument ID: GC56								
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		1			175125	08/28/21 16:26	N5Y3	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-12.5-H7**

**Date Collected: 08/10/21 12:30**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-112**

**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			7.078 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	173459	08/23/21 19:49	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 16:48	N5Y3	ECL 1
		Instrument ID: GC48								

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

**Date Collected: 08/10/21 12:35**

**Date Received: 08/12/21 10:15**

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

**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			7.58 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	173418	08/22/21 05:27	P1R	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	173228	08/20/21 16:59	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175125	08/28/21 17:09	N5Y3	ECL 1
		Instrument ID: GC48								

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# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-5-I6**

**Date Collected: 08/10/21 12:40**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-114**

**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			7.077 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**

**Date Collected: 08/10/21 12:45**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-115**

**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			5.223 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**

**Date Collected: 08/10/21 12:50**

**Date Received: 08/12/21 10:15**

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

**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			5.804 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**

**Date Collected: 08/10/21 12:55**

**Date Received: 08/12/21 10:15**

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

**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			6.396 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										

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# Lab Chronicle

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

Job ID: 570-66942-1

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

**Date Collected: 08/10/21 13:05**

**Date Received: 08/12/21 10:15**

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

**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			7.765 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**

**Date Collected: 08/10/21 13:10**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-119**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.412 g	5 mL	171695	08/16/21 13:53	EDZ4	ECL 2
Total/NA	Analysis	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**

**Date Collected: 08/10/21 13:15**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-120**

**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			5.34 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**

**Date Collected: 08/10/21 13:20**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-121**

**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			5.57 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								

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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-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**

**Date Collected: 08/10/21 13:45**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-126**

**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			6.577 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**

**Date Collected: 08/10/21 13:50**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-127**

**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			6.063 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**

**Date Collected: 08/10/21 13:55**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-128**

**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			5.114 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**

**Date Collected: 08/10/21 14:00**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-129**

**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			6.154 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								

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# Lab Chronicle

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

Job ID: 570-66942-1

**Client Sample ID: S-5-H5**

**Date Collected: 08/10/21 14:05**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-130**

**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			5.547 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**

**Date Collected: 08/10/21 14:10**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-131**

**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			9.117 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**

**Date Collected: 08/10/21 14:15**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-132**

**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			11.496 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**

**Date Collected: 08/10/21 14:20**

**Date Received: 08/12/21 10:15**

**Lab Sample ID: 570-66942-133**

**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			10.369 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								

Eurofins Calscience LLC



# 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								

Eurofins Calscience LLC

# 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
6
7
8
9
10
11
12
13
14
15

## 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

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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

> > Bank information has changed, please refer to remittance information on invoice. < <

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**de Guia, Cecile**

---

**From:** Keri Chappell <keri.chappell@cardno.com>  
**Sent:** Wednesday, August 18, 2021 7:17 AM  
**To:** de Guia, Cecile  
**Cc:** Cam Penner-Ash; Laina Cole; Bobby Thompson  
**Subject:** RE: Eurofins Calscience sample confirmation files from 570-66942-1 ExxonMobil ADC / 0314476040

EXTERNAL EMAIL\*

Hi Cecile,

Our field personnel confirmed that we had no recovery from this interval and the sample name was listed on the COC by mistake. Please cross it out; there is no sample S-7.5-G2.

Thanks,  
Keri

**Keri Chappell PG**  
PROJECT GEOLOGIST  
CARDNO

Direct +1 707 766 2000 Mobile +1 707 338 8015  
Address 1310 Redwood Way Suite C, Petaluma, California 94954  
Email [keri.chappell@cardno.com](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 containerrs for sample 570-66942-110 (S-7.5-H7). Should the extra set are to be analyzed as duplicate samples?
- 2) Samples received but were not listed on the COCs:

Sample: 570-66942-135 S-5-D5 DUP  
Sample: 570-66942-136 S-10-E4 DUP  
Sample: 570-66942-137 S-10-D1 DUP  
Sample: 570-66942-138 S-10-F9 DUP  
Sample: 570-66942-139 S-5-J5 DUP  
Sample: 570-66942-140 S-5-H5 DUP

These samples were added for analyses per your instruction. Please confirm.

Thank you.

**Cecile de Guia**  
Project Manager

Eurofins Calscience LLC  
Phone: 714-895-5494

E-mail: [Cecile.deGuia@eurofinset.com](mailto:Cecile.deGuia@eurofinset.com)  
[www.eurofinsus.com/env](http://www.eurofinsus.com/env)



Reference: [570-231164]  
Attachments: 2

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de Guia, Cecile

---

**From:** Bobby Thompson <robert.thompson@cardno.com>  
**Sent:** Thursday, August 26, 2021 3:34 PM  
**To:** de Guia, Cecile; Laina Cole; Cam Penner-Ash  
**Subject:** RE: ExxonMobil ADC / 0314476040 - 570-67093 NWTPH-Dx for Diesel and Motor oil

EXTERNAL EMAIL\*

Hello Cecile,

Understood on the delay for the two jobs. A lot was going on to get the ball rolling with the timely submission of samples. The 12-day TAT is acceptable for these two jobs. No need to report TPHg ahead of the other constituents.

Going forward, we hope to see the remainder of the samples reported on the requested 10-day turnaround time.

Thank you,

Bobby

**Bobby Thompson**  
SENIOR PROJECT MANAGER  
CARDNO

Mobile +1 206 510 5855  
Address 309 South Cloverdale Street, Unit A13, Seattle, Washington 98108  
Email [robert.thompson@cardno.com](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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CHAIN OF CUSTODY RECORD

DATE: 8/10/2021

PAGE: 7 OF 9

**ExxonMobil Engr\*** **Jennifer Sedlachek**

[illegible]

ORIGIN ID:BBEA (817) 965-6081  
PAUL PREVOUT  
CARDNO  
309 S CLOVERDALE ST  
SEATTLE, WA 98108  
UNITED STATES US

RT 3  
ST

TO

CALSCIENCE ENV LAB  
7440 LINCOLN WAY

GARDEN GROVE CA 92841  
(714) 886-6484  
REF 1  
PBT



CUSTODY SEAL



ENVIRONMENTAL  
www.essvial.com

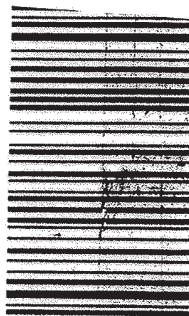
1 of 2

TRK# 8106 8478 7356  
0200  
## MASTER ##

92 APVA

FedEx  
TRK# 8158 1729 7776  
0215

92 APVA



CUSTODY SEAL



ENVIRONMENTAL SAMPLING SUPPLY  
www.essvial.com 800-233-8425

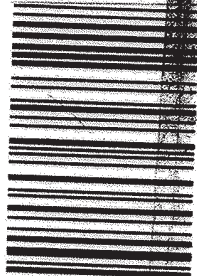
RT 399  
ST 13



570-66942 Waybill

FedEx  
TRK# 8135 3322 8223  
0200

92 APVA



CUSTODY SEAL

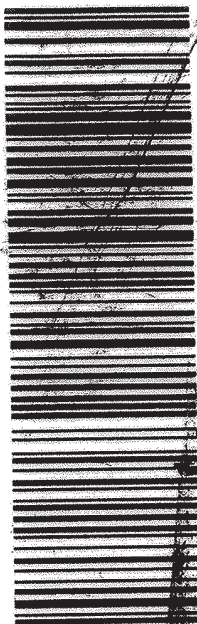


ENVIRONMENTAL SAMPLING SUPPLY  
www.essvial.com 800-233-8425

Signature:

FedEx  
TRK# 8158 1729 7765  
0215

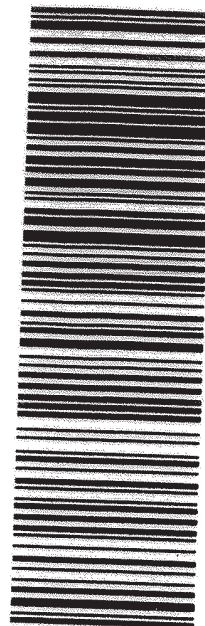
92 APVA



FedEx  
TRK# 8158 1729 7787  
0215

92 APVA

THU - 12 AUG 10:10  
PRIORITY OVERNIGHT  
NSR A  
928  
CA-US SI



56DJ1/BRF3/FESR

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# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-66942-1

Login Number: 66942

List Number: 1

Creator: Cruise, Noel

List Source: Eurofins Calscience LLC

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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)

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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: 570-66884-1

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.
□	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

## Job ID: 570-66884-1

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-66884-1

#### Comments

No additional comments.

#### Revision

The report being provided is a revision of the original report sent on 08/26/2021. The report (Revision 1) is being revised due to: Client required sample results group by sample and not by analysis method.

#### 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

10 en 1 t a eodle,  
cæp, rj/ lri : SEEex oblQMD1 j 0A24476040

Job ID: 570-66994-2

## Client Sample ID: S-2.5-B1

## Lab Sample ID: 570-66884-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hx orbas ICGt e(i	6)0		5)4	. (jm(	2	3	WO ☼ T-DE	/ ICGt gi C 1 CteKN

## Client Sample ID: S-5-B1

## Lab Sample ID: 570-66884-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hg t HbQei R 4-12Au	56		p9	. (jm(	p50	3	WO ☼ T-g E	☼rt QMM
☼ T t HDli H CGt e(i - D8	6A00		5f	. (jm(	20	3	WO ☼ T-DE	/ ICGt gi C 1 CteKN
☼ T t Hx orbas ICGt e(i - D8	2600		5f	. (jm(	20	3	WO ☼ T-DE	/ ICGt gi C 1 CteKN

## Client Sample ID: S-7.5-B1

## Lab Sample ID: 570-66884-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hg t HbQei R 4-12Au	5)4		0)pA	. (jm(	2	3	WO ☼ T-g E	☼rt QMM
☼ T t HDli H CGt e(i	p0		6)p	. (jm(	2	3	WO ☼ T-DE	/ ICGt gi C 1 CteKN
☼ T t Hx orbas ICGt e(i	27		6)p	. (jm(	2	3	WO ☼ T-DE	/ ICGt gi C 1 CteKN

## Client Sample ID: S-10-B1

## Lab Sample ID: 570-66884-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hg t HbQei R 4-12Au	0)4p		0)2A	. (jm(	2	3	WO ☼ T-g E	☼rt QMM

## Client Sample ID: S-12.5-B1

## Lab Sample ID: 570-66884-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hg t HbQei R 4-12Au	0)p9		0)p2	. (jm(	2	3	WO ☼ T-g E	☼rt QMM

## Client Sample ID: S-2.5-A2

## Lab Sample ID: 570-66884-6

Wb Di ri , rloeh)

## Client Sample ID: S-5-A2

## Lab Sample ID: 570-66884-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hg t HbQei R 4-12Au	p50		220	. (jm(	500	3	WO ☼ T-g E	☼rt QMM
☼ T t HDli H CGt e(i	A40		6)4	. (jm(	2	3	WO ☼ T-DE	/ ICGt gi C 1 CteKN
☼ T t Hx orbas ICGt e(i	45		6)4	. (jm(	2	3	WO ☼ T-DE	/ ICGt gi C 1 CteKN

## Client Sample ID: S-7.5-A2

## Lab Sample ID: 570-66884-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hg t HbQei R 4-12Au	5p0		p4	. (jm(	200	3	WO ☼ T-g E	☼rt QMM
☼ T t HDli H CGt e(i - D8	7400		60	. (jm(	20	3	WO ☼ T-DE	/ ICGt gi C 1 CteKN
☼ T t Hx orbas ICGt e(i - D8	650		60	. (jm(	20	3	WO ☼ T-DE	/ ICGt gi C 1 CteKN

## Client Sample ID: S-10-A2

## Lab Sample ID: 570-66884-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hg t HbQei R 4-12Au	76		pp	. (jm(	200	3	WO ☼ T-g E	☼rt QMM

☼hLDi ri , rloeh / K . t ay roi Heonle, Qri d rlo, hi . l, t Qi Hæ HKQ)

SKælleH1 t Q/ li e, i 881

# Detection Summary

10 en 1 t a eodle,  
cæp, rj/ lri : SEEex oblQMD1 j 0A24476040

Job ID: 570-66994-2

## Client Sample ID: S-10-A2 (Continued)

## Lab Sample ID: 570-66884-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼T t HDli H CGt e(i	p60		5)f	. (jm(	2	3	WO ☼T-DE	/ IQt gi C 1 CteKN
☼T t Hx orbas ICGt e(i	44		5)f	. (jm(	2	3	WO ☼T-DE	/ IQt gi C 1 CteKN

## Client Sample ID: S-12.5-A2

## Lab Sample ID: 570-66884-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼T t Hg t Hbæi R 4-1 2Au	570		240	. (jm(	2000	3	WO ☼T-g E	☼rt ØMM
☼T t HDli H CGt e(i	22000		64	. (jm(	20	3	WO ☼T-DE	/ IQt gi C 1 CteKN
☼T t Hx orbas ICGt e(i	pp00		64	. (jm(	20	3	WO ☼T-DE	/ IQt gi C 1 CteKN

## Client Sample ID: S-2.5-A4

## Lab Sample ID: 570-66884-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼T t Hx orbas ICGt e(i	220		5)5	. (jm(	2	3	WO ☼T-DE	/ IQt gi C 1 CteKN

## Client Sample ID: S-5-A4

## Lab Sample ID: 570-66884-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼T t Hg t Hbæi R 4-1 2Au	A00		26	. (jm(	50	3	WO ☼T-g E	☼rt ØMM
☼T t HDli H CGt e(i	9700		7p	. (jm(	20	3	WO ☼T-DE	/ IQt gi C 1 CteKN
☼T t Hx orbas ICGt e(i	2500		7p	. (jm(	20	3	WO ☼T-DE	/ IQt gi C 1 CteKN

## Client Sample ID: S-10-A4

## Lab Sample ID: 570-66884-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼T t Hg t Hbæi R 4-1 2Au	7p		pf	. (jm(	p50	3	WO ☼T-g E	☼rt ØMM
☼T t HDli H CGt e(i	p70		6)p	. (jm(	2	3	WO ☼T-DE	/ IQt gi C 1 CteKN
☼T t Hx orbas ICGt e(i	74		6)p	. (jm(	2	3	WO ☼T-DE	/ IQt gi C 1 CteKN

## Client Sample ID: S-12.5-A4

## Lab Sample ID: 570-66884-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼T t Hg t Hbæi R 4-1 2Au	0)4p		0)A9	. (jm(	2	3	WO ☼T-g E	☼rt ØMM

## Client Sample ID: S-14.5-A2

## Lab Sample ID: 570-66884-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼T t Hx orbas ICGt e(i	22		6)A	. (jm(	2	3	WO ☼T-DE	/ IQt gi C 1 CteKN

☼hHDi ni , doe / K . . t a y roi Heonle, Ør i æ r lo, hi . l, t Qi Hæ H(Ø)

SKælleH1 t Ø| li e, i 881

# Client Sample Results

10 en 1 t a eodle,  
cæp, rj/ lri : SEEex oblQMD1 j 0A24476040

Job ID: 570-66994-2

**Client Sample ID: S-2.5-B1**

**Date Collected: 08/11/21 13:10**

**Date Received: 08/12/21 10:50**

**Lab Sample ID: 570-66884-1**

**Matrix: Solid**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3c. t mg t mæi K 4-12A	8 D		0 T F	s R NR	G	09j2AjH2 2A:54	09jH4jH2 05:A6	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01			172 : 23 / : 64	172423 / 106 8	/

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3c. t mDli ni Q t eR	8 D		5 T	s R NR	G	09jH2jH2 09:HA	09jH4jH2 0A:A2	2
<b>TPH as Motor Oil Range</b>	<b>6.0</b>		5 T	s R NR	G	09jH2jH2 09:HA	09jH4jH2 0A:A2	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Q t Qat ne (Surr)	55		01 - / 01			172 / 23 / 176:	172423 / 1: 6 /	/

**Client Sample ID: S-5-B1**

**Date Collected: 08/11/21 13:15**

**Date Received: 08/12/21 10:50**

**Lab Sample ID: 570-66884-2**

**Matrix: Solid**

## 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>56</b>		H9	s R NR	G	09j2AjH2 2A:54	09jH4jH2 27:4H	H50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		01 - / 01			172 : 23 / : 64	172423 / / s63	301

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>TPH as Diesel Range</b>	<b>6300</b>		5)	s R NR	G	09jH2jH2 09:HA	09jH5jH2 22:4A	20
<b>TPH as Motor Oil Range</b>	<b>1600</b>		5)	s R NR	G	09jH2jH2 09:HA	09jH5jH2 22:4A	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Q t Qat ne (Surr)	/ 38		01 - / 01			172 / 23 / 176:	172023 / / 6:	/ 1

**Client Sample ID: S-7.5-B1**

**Date Collected: 08/11/21 13:20**

**Date Received: 08/12/21 10:50**

**Lab Sample ID: 570-66884-3**

**Matrix: Solid**

## 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>5.4</b>		0 T F A	s R NR	G	09j2AjH2 2A:54	09jH4jH2 06:00	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		01 - / 01			172 : 23 / : 64	172423 / 186 1	/

## 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>20</b>		6 T H	s R NR	G	09jH2jH2 09:HA	09jH4jH2 04:25	2
<b>TPH as Motor Oil Range</b>	<b>17</b>		6 T H	s R NR	G	09jH2jH2 09:HA	09jH4jH2 04:25	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Q t Qat ne (Surr)	/ 18		01 - / 01			172 / 23 / 176:	172423 / 146 0	/

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# Client Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEæex oblQMD1 j 0A24476040

Job ID: 570-66994-2

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		02A	s RNR	G	09j2AjH2 2A:54	09jH4jH2 07:22	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8/		01 - / 01			172 : 23 / : 04	172423/ 1s0/	/

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3c. t mDli ni Q t eR	8D		7H	s RNR	G	09jH2jH2 09:HA	09jH4jH2 04:A6	2
3c. t mx orpaOIQ t eR	8D		7H	s RNR	G	09jH2jH2 09:HA	09jH4jH2 04:A6	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Q t Qat ne (Surr)	// :		01 - / 01			172/ 23/ 170:	172423/ 146 8	/

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		0F2	s RNR	G	09j2AjH2 2A:54	09jH4jH2 07:A4	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		01 - / 01			172 : 23 / : 04	172423/ 1s6 4	/

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3c. t mDli ni Q t eR	8D		62	s RNR	G	09jH2jH2 09:HA	09jH4jH2 04:57	2
3c. t mx orpaOIQ t eR	8D		62	s RNR	G	09jH2jH2 09:HA	09jH4jH2 04:57	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Q t Qat ne (Surr)	/ 1/		01 - / 01			172/ 23/ 170:	172423/ 140s	/

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
3c. t mg t mæi K 4-12A	8D		0F6	s RNR	G	09j2AjH2 2A:54	09jH4jH2 07:59	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7:		01 - / 01			172 : 23 / : 04	172423/ 1s07	/

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3c. t mDli ni Q t eR	8D		55	s RNR	G	09jH2jH2 09:HA	09jH4jH2 05:29	2
3c. t mx orpaOIQ t eR	8D		55	s RNR	G	09jH2jH2 09:HA	09jH4jH2 05:29	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Q t Qat ne (Surr)	/ 18		01 - / 01			172/ 23/ 170:	172423/ 100 7	/

Suæflem1 t @j li e, i LL1

# Client Sample Results

10 en 1 t a eodle,  
cæp, rj/ lri : SEEex oblQMD1 j 0A24476040

Job ID: 570-66994-2

**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		220	s RNR	G	09j2AjH2 2A:54	09jH4jH2 25:A4	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	ss		01 - / 01			172 : 23 / : 04	172423 / 06 4	011

## Method: NWTPH-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		67	s RNR	G	09jH2jH2 09:HA	09jH4jH2 06:HA	2
TPH as Motor Oil Range	45		67	s RNR	G	09jH2jH2 09:HA	09jH4jH2 06:HA	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	/ 1s		01 - / 01			172 / 23 / 176:	172423 / 1864	/

**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		H4	s RNR	G	09j2AjH2 2A:54	09jH4jH2 0H:09	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	53		01 - / 01			172 : 23 / : 04	172423 / 1367	/ 11

## 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	s RNR	G	09jH2jH2 09:HA	09jH5jH2 2H:04	20
TPH as Motor Oil Range	650		60	s RNR	G	09jH2jH2 09:HA	09jH5jH2 2H:04	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	/ : 0		01 - / 01			172 / 23 / 176:	172023 / 1364	/ 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**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	76		HH	s RNR	G	09j2AjH2 2A:54	09jH4jH2 25:0)	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	s3		01 - / 01			172 : 23 / : 04	172423 / 0615	/ 11

## Method: NWTPH-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		57	s RNR	G	09jH2jH2 09:HA	09jH4jH2 07:06	2
TPH as Motor Oil Range	44		57	s RNR	G	09jH2jH2 09:HA	09jH4jH2 07:06	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	// 0		01 - / 01			172 / 23 / 176:	172423 / 1s618	/

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# Client Sample Results

10 en 1 t a eodle,  
cæp, rj/ lri : SEEex oblQMD1 j 0A24476040

Job ID: 570-66994-2

**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		240	s RNR	G	09j2AjH2 2A:54	09jH4jH2 26:52	2000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	s:		01 - / 01			172 : 23 / : 04	1723423 / 80	/ 111

## Method: NWTPH-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	s RNR	G	09jH2jH2 09:HA	09jH5jH2 2H:46	20
TPH as Motor Oil Range	2200		64	s RNR	G	09jH2jH2 09:HA	09jH5jH2 2H:46	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	/ 41		01 - / 01			1723 / 23 / 176:	1723023 / 368	/ 1

**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
3c. t mg t nœbi K 4-1 2A:	8 D		0TH	s RNR	G	09j2AjH2 2A:54	09jH4jH2 09:45	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 11		01 - / 01			172 : 23 / : 04	1723423 / 1760	/

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3c. t mDli ni Q t eR	8 D		5T	s RNR	G	09jH2jH2 09:HA	09jH4jH2 07:4)	2
TPH as Motor Oil Range	110		5T	s RNR	G	09jH2jH2 09:HA	09jH4jH2 07:4)	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	/ 1s		01 - / 01			1723 / 23 / 176:	1723423 / 1s65	/

**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		26	s RNR	G	09j2AjH2 2A:54	09jH4jH2 24:4A	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	///		01 - / 01			172 : 23 / : 04	1723423 / 46:	01

## Method: NWTPH-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		7H	s RNR	G	09jH2jH2 09:HA	09jH5jH2 2H:49	20
TPH as Motor Oil Range	1500		7H	s RNR	G	09jH2jH2 09:HA	09jH5jH2 2H:49	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	/ 4:		01 - / 01			1723 / 23 / 176:	1723023 / 367	/ 1

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# Client Sample Results

10 en 1 t a eodle,  
cæp, rj/ lri : SEEex oblQMD1 j 0A24476040

Job ID: 570-66994-2

**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		H)	s RNR	G	09j2AjH2 2A:54	09jH4jH2 27:27	H50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51		01 - / 01			172 : 23 / : 04	172423 / : s6 s	301

## Method: NWTPH-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		6TH	s RNR	G	09jH2jH2 09:HA	09jH4jH2 09:A2	2
TPH as Motor Oil Range	74		6TH	s RNR	G	09jH2jH2 09:HA	09jH4jH2 09:A2	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	/ 1:		01 - / 01			1723 / 23 / 176:	172423 / 176 /	/

**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		0TA9	s RNR	G	09j2AjH2 2A:54	09jH4jH2 27:24	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		01 - / 01			172 : 23 / : 04	172423 / : s6 4	/

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3c. t mDli ni Q t eR	8D		7T9	s RNR	G	09jH2jH2 09:HA	09jH4jH2 09:5H	2
3c. t mx orpaOIQ t eR	8D		7T9	s RNR	G	09jH2jH2 09:HA	09jH4jH2 09:5H	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	///		01 - / 01			1723 / 23 / 176:	172423 / 1703	/

**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
3c. t mg t mæi K 4-1 2A	8D		0TA	s RNR	G	09j2AjH2 2A:54	09jH4jH2 0):55	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	53		01 - / 01			172 : 23 / : 04	172423 / 1500	/

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3c. t mDli ni Q t eR	8D		6TA	s RNR	G	09jH2jH2 09:HA	09jH4jH2 0):25	2
TPH as Motor Oil Range	11		6TA	s RNR	G	09jH2jH2 09:HA	09jH4jH2 0):25	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	/ 1:		01 - / 01			1723 / 23 / 176:	172423 / 150 0	/

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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
<b>Surrogate Legend</b>		
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

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# 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

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Job ID: 570-66994-2

## 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
3c. t mg t nœi K 4-1 2A☼	8 D		0 T 5	s R NR			09jH4jH2 02:29	2
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01				172 42 / 1 / 3 7	/

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
3c. t mg t nœi K 4-1 2A☼	H2A	2 T 96		s R NR		94	77 - 2 H 9
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	67		01 - / 01				

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
3c. t mg t nœi K 4-1 2A☼	H2A	2 T 0 G		s R NR		95	77 - 2 H 9	2	26
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 18		01 - / 01						

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
3c. t mg t nœi K 4-1 2A☼	8 D		5 T 0	s R NR			09jH4jH2 2G26	H 0
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7:		01 - / 01				172 92 / / 63 8	: 1

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
3c. t mg t nœi K 4-1 2A☼	H2H	H2A 0		s R NR		200	77 - 2 H 9
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	6/		01 - / 01				

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# QC Sample Results

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Job ID: 570-66994-2

## 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
3c. t mg t nœi K 4-1 2A☼	H22	H20A		s RNR		200	77 - 2H9	2	26
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	6/		01 - / 01						

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
3c. t mg t nœi K 4-1 2A☼	8D		5D	s RNR			09jHjH2 24:29	H0
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51		01 - / 01				172 42 / / 43 7	: 1

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		
3c. t mg t nœi K 4-1 2A☼	H22	2T20		s RNR		96	77 - 2H9		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	86		01 - / 01						

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
3c. t mg t nœi K 4-1 2A☼	H2H	2T66		s RNR		9A	77 - 2H9	H	26
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	69		01 - / 01						

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
3c. t mg t nœi K 4-1 2A☼	8D		0TF5	s RNR			09jHjH2 24:A7	2
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55		01 - / 01				172 42 / / 435	/

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# QC Sample Results

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Job ID: 570-66994-2

## 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
3c. t mg t nœi K 4-12A☼	H20	2T36		s RNR		GA	77 - 2H9
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	// :		01 - / 01				

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
3c. t mg t nœi K 4-12A☼	H2H	2T37		s RNR		GA	77 - 2H9	2	26
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	6/		01 - / 01						

## 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
3c. t mDli ni Q t eR	8D		5T	s RNR		09jH2jH2 09:HA	09jH4jH2 00:27	2
3c. t mx orbaL IQ t eR	8D		5T	s RNR		09jH2jH2 09:HA	09jH4jH2 00:27	2
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	// 4		01 - / 01	172 / 2 / 173 9	172 42 / 113 5	/		

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
3c. t mx orbaL IQ 27-144☼	400	404T		s RNR		202	72 - 2AG
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	/ 15		01 - / 01				

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
3c. t mDli ni Q 20-1H9☼	400	406T		s RNR		20H	76 - 2H6
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	/ 1:		01 - / 01				

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# QC Sample Results

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Job ID: 570-66994-2

## 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
3c. t mx orpaL IQK 27-1 44	400	AG2A		s RNR		CG	72 - 2AG	A	HD
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	66		01 - / 01						

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
3c. t mDli ni QK 20-1 H9	400	4A5G		s RNR		20G	76 - 2H6	7	HD
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	/ 1:		01 - / 01						

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	RPD	RPD Limit
3c. t mDli ni QK 20-1 H9	8D		4HG	4AGA		s RNR		o	20H	A7 - 275	
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	/ 1:		01 - / 01								

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	RPD	RPD Limit
3c. t mx orpaL IQK 27-1 44	8D		4A0	4A6B		s RNR		o	CG	72 - 274	
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	/ 19		01 - / 01								

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
3c. t mDli ni QK 20-1 H9	8D		4A2	499B		s RNR		o	22A	A7 - 275	22 HD
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	/ 14		01 - / 01								

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# QC Sample Results

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Job ID: 570-66994-2

## 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3c. t mx oraL IQN 27-1 44	8 D		4A2	457	G	s RNR	o	204	72 - 274	5	H
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	/ 10		01 - / 01								

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# 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	

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# 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										

Eurofins Calscience LLC

# 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		1	5 g	5 mL	173685	08/24/21 07:34	A9VE	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			9.99 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 04:57	A1W	ECL 1
Instrument ID: GC48										

**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		1	5 g	5 mL	173685	08/24/21 07:58	A9VE	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			9.93 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 05:18	A1W	ECL 1
Instrument ID: GC48										

**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		500	5 mL	5 mL	173726	08/24/21 15:34	P1R	ECL 2
Instrument ID: GC22										
Silica Gel Cleanup	Prep	3550C SGC			9.97 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			173736	08/24/21 06:24	A1W	ECL 1
Instrument ID: GC48										

**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		100	5 mL	5 mL	173725	08/24/21 02:08	P1R	ECL 2
Instrument ID: GC22										
Silica Gel Cleanup	Prep	3550C SGC	DL		10.12 g	10 mL	173318	08/21/21 08:23	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			173940	08/25/21 12:04	A1W	ECL 1
Instrument ID: GC48										

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# Lab Chronicle

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

Job ID: 570-66884-1

**Client Sample ID: S-10-A2**

**Lab Sample ID: 570-66884-9**

**Date Collected: 08/11/21 14:05**

**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			6.892 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**

**Lab Sample ID: 570-66884-10**

**Date Collected: 08/11/21 14:10**

**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			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**

**Lab Sample ID: 570-66884-11**

**Date Collected: 08/11/21 14:20**

**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			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**

**Lab Sample ID: 570-66884-12**

**Date Collected: 08/11/21 14:25**

**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			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								

Eurofins Calscience LLC

# 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
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Method Summary

1 0 en 1 t a eodle,  
c a P, rj/ lri : S E E oex obl QMD1 j 0A24476040

Job ID: 570-66994-2

Method	Method Description	Protocol	Laboratory
3 N V 6 T-HE	3 o a G h i w n- s o C r i C c i r a o C V u c a o r V, n w r h i 1 (	3 N V 6 T	S1) L
3 N V 6 T-DE	3 o a G h i w n- / i u l- s o C r i C c i r a o C V u c a o r V, n w r h i 1 (	3 N V 6 T	S1) 2
A5501 / H1	8 O a w o e l, S E r a t, n o e	/ N 946	S1) 2
50A5	1 O w i r / U w i u c V a y i t e r V a g	/ N 946	S1) L

## Protocol References:

3 N V 6 T p 3 o a G h i w n V o r t C c i r a o C V u T U r a o, t a b o e  
/ N 946 p a V w n x i r G o r w " o a S F t O t r l e y / o O N t w i d c G U W, t O i G u l, t O x i r G o r w a d V G a S r I n l o e d 3 o F i u b i a 2 v 9 6 M e r l n w 8 g r t n i w

## Laboratory References:

S1) 2 p S V a o f l e w 1 t O u l i e, i ) ) 1 ) l e, o e d 7 4 4 0 ) l e, o e N t U d H t a r i e H a o F i d 1 M v L 9 4 2 d V S ) n 7 2 4 ( 9 v 5 - 5 4 v 4  
S1) L p S V a o f l e w 1 t O u l i e, i ) ) 1 ) t u g w o e d 7 4 4 5 ) t u g w o e M F i d H t a r i e H a o F i d 1 M v L 9 4 2 d V S ) n 7 2 4 ( 9 v 5 - 5 4 v 4

S V a o f l e w 1 t O u l i e, i ) ) 1

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 92841-1432  
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: 8/11/2021

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  
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: P O 0314476040 Agreement# A2604415

PROJECT CONTACT: Robert Thompson  
SAMPLER(S): Paul Prevou, John Considine

REQUESTED ANALYSIS: 570-66884 Chain of Custody

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	Perform MS/MSD		CONTAINER TYPE
			DATE	TIME			NWTPH-GX TPH as Gasoline	NWTPH-DX TPH as Diesel and Motor Oil	
1	S-2.5-B1	B1	8/11/2021	1310	S	4	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	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	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	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
5	S-12.5-B1	B1	8/11/2021	1330	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
6	S-2.5-A2	A2	8/11/2021	1335	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
7	S-5-A2	A2	8/11/2021	1340	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
8	S-7.5-A2	A2	8/11/2021	1345	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
9	S-10-A2	A2	8/11/2021	1350	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
10	S-12.5-A2	A2	8/11/2021	1355	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
11	S-2.5-A1	A1	8/11/2021	1400	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
12	S-5-A1	A1	8/11/2021	1405	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
13	S-7.5-A1	A1	8/11/2021	1410	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
14	S-10-A1	A1	8/11/2021	1415	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
15	S-12.5-A1	A1	8/11/2021	1420	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
16	S-2.5-A1	A1	8/11/2021	1425	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
17	S-5-A1	A1	8/11/2021	1430	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
18	S-7.5-A1	A1	8/11/2021	1435	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
19	S-10-A1	A1	8/11/2021	1440	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
20	S-12.5-A1	A1	8/11/2021	1445	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
21	S-2.5-A1	A1	8/11/2021	1450	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
22	S-5-A1	A1	8/11/2021	1455	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
23	S-7.5-A1	A1	8/11/2021	1460	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
24	S-10-A1	A1	8/11/2021	1465	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
25	S-12.5-A1	A1	8/11/2021	1470	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
26	S-2.5-A1	A1	8/11/2021	1475	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
27	S-5-A1	A1	8/11/2021	1480	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
28	S-7.5-A1	A1	8/11/2021	1485	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
29	S-10-A1	A1	8/11/2021	1490	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
30	S-12.5-A1	A1	8/11/2021	1495	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
31	S-2.5-A1	A1	8/11/2021	1500	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
32	S-5-A1	A1	8/11/2021	1505	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
33	S-7.5-A1	A1	8/11/2021	1510	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
34	S-10-A1	A1	8/11/2021	1515	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
35	S-12.5-A1	A1	8/11/2021	1520	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
36	S-2.5-A1	A1	8/11/2021	1525	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
37	S-5-A1	A1	8/11/2021	1530	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
38	S-7.5-A1	A1	8/11/2021	1535	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
39	S-10-A1	A1	8/11/2021	1540	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
40	S-12.5-A1	A1	8/11/2021	1545	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
41	S-2.5-A1	A1	8/11/2021	1550	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
42	S-5-A1	A1	8/11/2021	1555	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
43	S-7.5-A1	A1	8/11/2021	1560	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
44	S-10-A1	A1	8/11/2021	1565	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
45	S-12.5-A1	A1	8/11/2021	1570	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
46	S-2.5-A1	A1	8/11/2021	1575	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
47	S-5-A1	A1	8/11/2021	1580	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
48	S-7.5-A1	A1	8/11/2021	1585	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
49	S-10-A1	A1	8/11/2021	1590	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
50	S-12.5-A1	A1	8/11/2021	1595	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
51	S-2.5-A1	A1	8/11/2021	1600	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
52	S-5-A1	A1	8/11/2021	1605	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
53	S-7.5-A1	A1	8/11/2021	1610	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
54	S-10-A1	A1	8/11/2021	1615	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
55	S-12.5-A1	A1	8/11/2021	1620	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
56	S-2.5-A1	A1	8/11/2021	1625	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
57	S-5-A1	A1	8/11/2021	1630	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
58	S-7.5-A1	A1	8/11/2021	1635	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
59	S-10-A1	A1	8/11/2021	1640	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
60	S-12.5-A1	A1	8/11/2021	1645	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
61	S-2.5-A1	A1	8/11/2021	1650	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
62	S-5-A1	A1	8/11/2021	1655	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
63	S-7.5-A1	A1	8/11/2021	1660	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
64	S-10-A1	A1	8/11/2021	1665	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
65	S-12.5-A1	A1	8/11/2021	1670	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
66	S-2.5-A1	A1	8/11/2021	1675	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
67	S-5-A1	A1	8/11/2021	1680	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
68	S-7.5-A1	A1	8/11/2021	1685	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
69	S-10-A1	A1	8/11/2021	1690	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
70	S-12.5-A1	A1	8/11/2021	1695	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
71	S-2.5-A1	A1	8/11/2021	1700	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
72	S-5-A1	A1	8/11/2021	1705	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
73	S-7.5-A1	A1	8/11/2021	1710	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
74	S-10-A1	A1	8/11/2021	1715	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
75	S-12.5-A1	A1	8/11/2021	1720	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
76	S-2.5-A1	A1	8/11/2021	1725	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
77	S-5-A1	A1	8/11/2021	1730	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
78	S-7.5-A1	A1	8/11/2021	1735	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
79	S-10-A1	A1	8/11/2021	1740	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
80	S-12.5-A1	A1	8/11/2021	1745	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
81	S-2.5-A1	A1	8/11/2021	1750	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
82	S-5-A1	A1	8/11/2021	1755	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
83	S-7.5-A1	A1	8/11/2021	1760	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
84	S-10-A1	A1	8/11/2021	1765	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
85	S-12.5-A1	A1	8/11/2021	1770	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
86	S-2.5-A1	A1	8/11/2021	1775	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
87	S-5-A1	A1	8/11/2021	1780	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
88	S-7.5-A1	A1	8/11/2021	1785	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
89	S-10-A1	A1	8/11/2021	1790	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
90	S-12.5-A1	A1	8/11/2021	1795	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
91	S-2.5-A1	A1	8/11/2021	1800	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
92	S-5-A1	A1	8/11/2021	1805	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
93	S-7.5-A1	A1	8/11/2021	1810	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
94	S-10-A1	A1	8/11/2021	1815	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
95	S-12.5-A1	A1	8/11/2021	1820	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
96	S-2.5-A1	A1	8/11/2021	1825	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
97	S-5-A1	A1	8/11/2021	1830	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
98	S-7.5-A1	A1	8/11/2021	1835	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
99	S-10-A1	A1	8/11/2021	1840	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
100	S-12.5-A1	A1	8/11/2021	1845	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
101	S-2.5-A1	A1	8/11/2021	1850	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
102	S-5-A1	A1	8/11/2021	1855	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
103	S-7.5-A1	A1	8/11/2021	1860	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
104	S-10-A1	A1	8/11/2021	1865	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
105	S-12.5-A1	A1	8/11/2021	1870	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
106	S-2.5-A1	A1	8/11/2021	1875	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
107	S-5-A1	A1	8/11/2021	1880	S	4	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
108	S-7.5-A1	A1	8/11/2021	1885	S	4	X	X</	

**CUSTODY SEAL**



ENVIRONMENTAL SAMPLING SUPPLY  
www.cssvial.com 800-233-8425

**Do Not**

**FedEx**

TRK# 8135 3322 8212  
0200

**92 APVA**

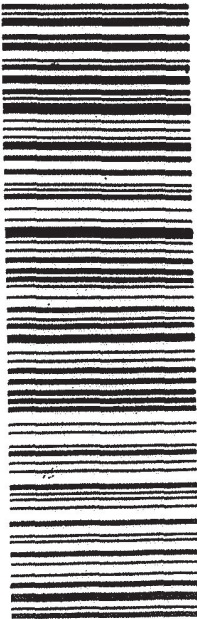
**THU - 12 AUG 10:30A  
PRIORITY OVERNIGHT**

**NSR AHS**

**92841**

**CA-US**

**SNA**



55DL1/BRF3/FE4R



570-66884 Waybill

Date:

8/11/2021

Signature:



## 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 $\leq$ 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 $<6\text{mm}$ (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  
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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*

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Authorized for release by:  
8/30/2021 6:06:34 PM

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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: 570-67093-1

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 VeO i Ac p

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

## Glossary

Abbreviation	These SoO Only 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

## Job ID: 570-67093-1

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-67093-1

#### Comments

Please note that samples S-12.5-I2 (570-67093-15) and S-12.5-H9 (570-67093-30) 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.

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# Client Sample Results

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Job ID: 570-67094-2

**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**

## 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		03.4	mgjKg	☆	08j. 2j. 2 24:5A	08j. Aj. 2 28:59	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		50 - 150			0/ 7. 17. 1 12:34	0/ 7. 47. 1 1/ 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	1300	F1	60	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 22:29	20
TPH as Motor Oil Range	450	F2 F1	60	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 22:29	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	6:		50 - 150			0/ 7. 17. 1 0/ 315	0/ 7. s7. 1 11:36	10

**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**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Rt soæi N A-1 24G	( D		03.	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 . 2:07	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ s		50 - 150			0/ 7. 17. 1 12:34	0/ 7. 47. 1 : 13s	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		53	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 22:49	2
TcH t s x orpa) IQut egi	( D		53	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 22:49	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	65		50 - 150			0/ 7. 17. 1 0/ 315	0/ 7. s7. 1 11:36	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**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Rt soæi N A-1 24G	( D		03.9	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 . 0:A2	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 4		50 - 150			0/ 7. 17. 1 12:34	0/ 7. 47. 1 : 031	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Dli si Qut egi	( D		53	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 28:25	2
TPH as Motor Oil Range	6.9		53	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 28:25	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	/ :		50 - 150			0/ 7. 17. 1 0/ 315	0/ 7. s7. 1 1/ 315	1

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# Client Sample Results

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cæP, rj/ lri : SEEex oblQMD1 j 042AA760A0

Job ID: 570-67094-2

**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
TcH t s Rt soæi N A-1 24G	( D		0392	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 . 0:26	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ s		50 - 150			0/ 7 127. 1 12354	0/ 7 47. 1 : 0318	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		539	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 . . :42	2
TPH as Motor Oil Range	12		539	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 . . :42	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qbat ne (Surr)	10:		50 - 150			0/ 7 17. 1 0/ 315	0/ 7 s7. 1 : : 321	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
TcH t s Rt soæi N A-1 24G	( D		23	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 . 2:4.	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150			0/ 7 127. 1 12354	0/ 7 47. 1 : 132:	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		27	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 . . :50	2
TPH as Motor Oil Range	140		27	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 . . :50	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qbat ne (Surr)	101		50 - 150			0/ 7 17. 1 0/ 315	0/ 7 s7. 1 : : 350	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		22	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 28:08	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		50 - 150			0/ 7 127. 1 12354	0/ 7 47. 1 1/ 30/	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		40	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 . 4:20	5
TPH as Motor Oil Range	1000		40	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 . 4:20	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qbat ne (Surr)	/ s		50 - 150			0/ 7 17. 1 0/ 315	0/ 7 s7. 1 : 2310	5

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# Client Sample Results

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cæp, rj/ lri : SEEx oblQMD1 j 042AA760A0

Job ID: 570-67094-2

**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		A	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 . 4:54	.00
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	5/		50 - 150			0/ 7 127. 1 12354	0/ 7. 47. 1 : 2352	: 00

## Method: NWTPH-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		53	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 . 4:40	2
TPH as Motor Oil Range	26		53	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 . 4:40	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	68		50 - 150			0/ 7. 17. 1 0/ 315	0/ 7. s7. 1 : 230	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		03 0	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 . 2:58	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150			0/ 7 127. 1 12354	0/ 7. 47. 1 : 135/	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		53	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 . 4:50	2
TPH as Motor Oil Range	11		53	mgjKg	☆	08j. 2j. 2 08:25	08j. 7j. 2 . 4:50	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	6s		50 - 150			0/ 7. 17. 1 0/ 315	0/ 7. s7. 1 : 230	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		634	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 . :29	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	ss		50 - 150			0/ 7 127. 1 12354	0/ 7. 47. 1 : : 316	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		53	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 00:09	2
TPH as Motor Oil Range	100		53	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 00:09	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	100		50 - 150			0/ 7. 17. 1 0/ 315	0/ 7. 7. 1 00306	1

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# Client Sample Results

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cæp, rj/ lri : SEEex oblQMD1 j 042AA760A0

Job ID: 570-67094-2

**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
TcH t s Rt soæi N A-1 24G	( D		038	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 . . . A	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150			0/ 7 127. 1 1234	0/ 7. 47. 1 . . : 3 4	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		2A	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 00:40	2
TPH as Motor Oil Range	53		2A	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 00:40	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	110		50 - 150			0/ 7. 17. 1 0/ 315	0/ 7. 7. 1 00320	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		93	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 . . . A4	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		50 - 150			0/ 7 127. 1 1234	0/ 7. 47. 1 . . : 312	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	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 00:A9	20
TPH as Motor Oil Range	2600		58	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 00:A9	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	68		50 - 150			0/ 7. 17. 1 0/ 315	0/ 7. 7. 1 00316	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		A6	mgjKg	☆	08j24j. 2 24:5A	08j. 5j. 2 00:27	. 00
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	s2		50 - 150			0/ 7 127. 1 1234	0/ 7. 57. 1 0031s	: 00

## Method: NWTPH-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		64	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 29:A	20
TPH as Motor Oil Range	1800		64	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 29:A	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	1: 5		50 - 150			0/ 7. 17. 1 0/ 315	0/ 7. 7. 1 1631:	10

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# Client Sample Results

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cæp, rj/ lri : SEEx oblQMD1 j 042AA760A0

Job ID: 570-67094-2

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		03	mgjKg	☆	08j. 2j. 2 24:5A	08j. 8j. 2 02: A9	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	5/		50 - 150			0/ 7 17. 1 12:34	0/ 7 47. 1 1 : 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	220		63	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 02: 9	2
TPH as Motor Oil Range	170		63	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 02: 9	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	68		50 - 150			0/ 7 17. 1 0/ 315	0/ 7 7. 1 013 6	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		28	mgjKg	☆	08j. 2j. 2 24:5A	08j. 8j. 2 04: 9	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 4		50 - 150			0/ 7 17. 1 12:34	0/ 7 47. 1 : 23 6	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		22	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 02:50	2
TPH as Motor Oil Range	560		22	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 02:50	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	105		50 - 150			0/ 7 17. 1 0/ 315	0/ 7 7. 1 0130	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		93	mgjKg		08j. 5j. 2 25:02	08j. 5j. 2 27:0A	. 0
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	6/		50 - 150			0/ 7 57. 1 15:31	0/ 7 57. 1 1s34	: 0

## Method: NWTPH-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		63	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 0 : 22	2
TPH as Motor Oil Range	83		63	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 0 : 22	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	68		50 - 150			0/ 7 17. 1 0/ 315	0/ 7 7. 1 0: 31	1

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# Client Sample Results

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cæp, rj/ lri : SEEex oblQMD1 j 042AA760A0

Job ID: 570-67094-2

Client Sample ID: S-2.5-J3

Lab Sample ID: 570-67093-16

Date Collected: 08/11/21 09:40

Matrix: Solid

Date Received: 08/12/21 10:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	4.0		0324	mgjKg	☆	08j. 2j. 2 24:5A	08j. 8j. 2 29:45	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150			0/ 7 12 7 1 12 354	0/ 7 47 1 16 325	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	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 0. :40	20
TPH as Motor Oil Range	3800		56	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 0. :40	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	1: 1		50 - 150			0/ 7 17 1 0/ 315	0/ 7 7 1 0: 320	10

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	130		63	mgjKg	☆	08j. 2j. 2 24:5A	08j. 5j. 2 26:59	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		50 - 150			0/ 7 12 7 1 12 354	0/ 7 57 1 18 366	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		2.	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 0. :50	.
TPH as Motor Oil Range	810		2.	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 0. :50	.
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	104		50 - 150			0/ 7 17 1 0/ 315	0/ 7 7 1 0: 320	:

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	210		24	mgjKg	☆	08j. 2j. 2 24:5A	08j. 5j. 2 05:..	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 4		50 - 150			0/ 7 12 7 1 12 354	0/ 7 57 1 053 :	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	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2. 0:0.	20
TPH as Motor Oil Range	750		57	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2. 0:0.	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	61		50 - 150			0/ 7 17 1 0/ 315	0/ 7 7 1 : 030:	10

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# Client Sample Results

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Job ID: 570-67094-2

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	160		45	mgjKg	☆	08j24j. 2 2A:27	08j. 5j. 2 05:A5	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	s/		50 - 150			0/ 7 127. 1 143/s	0/ 7 57. 1 053/5	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		27	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 04:42	.
TPH as Motor Oil Range	140		27	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 04:42	.
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	/ 6		50 - 150			0/ 7 17. 1 0/ 3/5	0/ 7 7. 1 023/1	:

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Rt soQei N A-1 24G	( D		03A	mgjKg	☆	08j24j. 2 24:5A	08j. Aj. 2 28:A8	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150			0/ 7 127. 1 123/4	0/ 7 47. 1 1/ 3/	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		26	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 04:5.	2
TPH as Motor Oil Range	73		26	mgjKg	☆	08j. 2j. 2 08:25	08j. 8j. 2 04:5.	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	105		50 - 150			0/ 7 17. 1 0/ 3/5	0/ 7 7. 1 023/:	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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	110		2A	mgjKg	☆	08j24j. 2 2A:27	08j. Aj. 2 . 4:06	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 2		50 - 150			0/ 7 127. 1 143/s	0/ 7 47. 1 : 23/8	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		63	mgjKg	☆	08j. 2j. 2 08: A	08j. 8j. 2 07:46	2
TPH as Motor Oil Range	15		63	mgjKg	☆	08j. 2j. 2 08: A	08j. 8j. 2 07:46	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	6/		50 - 150			0/ 7 17. 1 0/ 3 4	0/ 7 7. 1 0s38	1

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# Client Sample Results

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Job ID: 570-67094-2

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	480		6.	mgjKg	☆	08j.2j. 2 2A:27	08j. 5j. 2 06:09	. 50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 4		50 - 150			0/ 7 127. 1 1431s	0/ 7 57. 1 08306	: 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	760		632	mgjKg	☆	08j. 2j. 2 08.: A	08j. 8j. 2 07:55	2
TPH as Motor Oil Range	210		632	mgjKg	☆	08j. 2j. 2 08.: A	08j. 8j. 2 07:55	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	66		50 - 150			0/ 7 17. 1 0/ 3 4	0/ 7 7. 1 0s355	1

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	3300		. A0	mgjKg	☆	08j.2j. 2 2A:27	08j. 5j. 2 06:4.	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	10/		50 - 150			0/ 7 127. 1 1431s	0/ 7 57. 1 0832:	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		200	mgjKg	☆	08j. 2j. 2 08.: A	08j. 8j. 2 . 0.: 4	20
TPH as Motor Oil Range	730		200	mgjKg	☆	08j. 2j. 2 08.: A	08j. 8j. 2 . 0.: 4	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	114		50 - 150			0/ 7 17. 1 0/ 3 4	0/ 7 7. 1 : 03 2	10

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	590		200	mgjKg	☆	08j.2j. 2 2A:27	08j. 5j. 2 06:56	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150			0/ 7 127. 1 1431s	0/ 7 57. 1 08358	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		52	mgjKg	☆	08j. 2j. 2 08.: A	08j. 8j. 2 . 0:AA	5
TPH as Motor Oil Range	2700		52	mgjKg	☆	08j. 2j. 2 08.: A	08j. 8j. 2 . 0:AA	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	14:		50 - 150			0/ 7 17. 1 0/ 3 4	0/ 7 7. 1 : 0344	5

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# Client Sample Results

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Job ID: 570-67094-2

**Client Sample ID: S-12.5-J9**

**Lab Sample ID: 570-67093-25**

**Date Collected: 08/11/21 11:15**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1700		840	mgjKg	☆	08j24j. 2 2A:27	08j. 5j. 2 07:A4	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150			0/ 7 127. 1 143s	0/ 7 57. 1 0s32	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		2. 0	mgjKg	☆	08j. 2j. 2 08:. A	08j. 8j. 2. 2:0A	5
TPH as Motor Oil Range	4400		2. 0	mgjKg	☆	08j. 2j. 2 08:. A	08j. 8j. 2. 2:0A	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	61		50 - 150			0/ 7 17. 1 0/ 3 4	0/ 7 / 7. 1 : 134	5

**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**

## 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		0329	mgjKg	☆	08j24j. 2 2A:26	08j. Aj. 2. 4:25	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	s0		50 - 150			0/ 7 127. 1 143s	0/ 7 47. 1 : 23s	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		534	mgjKg	☆	08j. 2j. 2 08:. A	08j. 8j. 2 09:27	2
TPH as Motor Oil Range	70		534	mgjKg	☆	08j. 2j. 2 08:. A	08j. 8j. 2 09:27	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	64		50 - 150			0/ 7 17. 1 0/ 3 4	0/ 7 / 7. 1 063s	1

**Client Sample ID: S-4.5-H9**

**Lab Sample ID: 570-67093-27**

**Date Collected: 08/11/21 12:00**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1600		7A	mgjKg	☆	08j24j. 2 2A:27	08j. 5j. 2 08:06	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	12/		50 - 150			0/ 7 127. 1 143s	0/ 7 57. 1 0/ 38	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		400	mgjKg	☆	08j. 2j. 2 08:. A	08j. 8j. 2. 2:. A	50
TPH as Motor Oil Range	4300		400	mgjKg	☆	08j. 2j. 2 08:. A	08j. 8j. 2. 2:. A	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	116		50 - 150			0/ 7 17. 1 0/ 3 4	0/ 7 / 7. 1 : 13 4	50

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# Client Sample Results

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Job ID: 570-67094-2

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	2400		260	mgjKg	☆	08j. 2j. 2 2A:27	08j. 5j. 2 08: 9	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62		50 - 150			0/ 7 127. 1 143s	0/ 7 57. 1 0/ 3 6	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		260	mgjKg	☆	08j. 2j. 2 08: A	08j. 40j. 2 04: AA	. 0
TPH as Motor Oil Range	4700		260	mgjKg	☆	08j. 2j. 2 08: A	08j. 40j. 2 04: AA	. 0
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	10/		50 - 150			0/ 7 17. 1 0/ 3 4	0/ 7 207. 1 02344	: 0

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	53		93	mgjKg		08j. 5j. 2 25:02	08j. 5j. 2 27:44	. 0
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		50 - 150			0/ 7 57. 1 15301	0/ 7 57. 1 1s322	: 0

## Method: NWTPH-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		4.	mgjKg	☆	08j. 2j. 2 08: A	08j. 8j. 2 20:27	2
TPH as Motor Oil Range	1200		4.	mgjKg	☆	08j. 2j. 2 08: A	08j. 8j. 2 20:27	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	10s		50 - 150			0/ 7 17. 1 0/ 3 4	0/ 7 7. 1 103s	1

Client Sample ID: S-14.5-J9

Lab Sample ID: 570-67093-31

Date Collected: 08/11/21 11:20

Matrix: Solid

Date Received: 08/12/21 10:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.5		234	mgjKg	☆	08j. 2j. 2 2A:26	08j. Aj. 2 . 4: A0	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150			0/ 7 127. 1 143s	0/ 7 47. 1 : 2340	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		. 4	mgjKg	☆	08j. 2j. 2 08: A	08j. 8j. 2 20:48	2
TPH as Motor Oil Range	450		. 4	mgjKg	☆	08j. 2j. 2 08: A	08j. 8j. 2 20:48	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	105		50 - 150			0/ 7 17. 1 0/ 3 4	0/ 7 7. 1 103s	1

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# Client Sample Results

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Job ID: 570-67094-2

**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		2.0	mgjKg	☆	08j. 2j. 2 2A:27	08j. 5j. 2 08:54	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150			0/ 7 127.1 1431s	0/ 7 57.1 0/ 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	4000		44	mgjKg	☆	08j. 2j. 2 08:.. A	08j. 8j. 2 .. :0A	5
TPH as Motor Oil Range	410		44	mgjKg	☆	08j. 2j. 2 08:.. A	08j. 8j. 2 .. :0A	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	10/		50 - 150			0/ 7 17.1 0/ 3 4	0/ 7 7.1 .. : 34	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
TcH t s Rt soæi N A-1 24G	( D		23	mgjKg	☆	08j. 2j. 2 2A:26	08j. 5j. 2 00:06	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150			0/ 7 127.1 1431s	0/ 7 57.1 00308	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		. 6	mgjKg	☆	08j. 2j. 2 08:.. A	08j. 8j. 2 22:57	2
TPH as Motor Oil Range	160		. 6	mgjKg	☆	08j. 2j. 2 08:.. A	08j. 8j. 2 22:57	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	10s		50 - 150			0/ 7 17.1 0/ 3 4	0/ 7 7.1 1135s	1

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# 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

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# 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

Eurofins Calscience LLC



# 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)		

# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1 j 042AA760A0

Job ID: 570-67094-2

## 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
3cT t Hs t Hbæi G A-124(	) D		0N5	mgjKg			08j. Aj. 2 24:5.	2
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01				187475 / 2:05	/

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
3cT t Hs t Hbæi G A-124(	) D		5N0	mgjKg			08j. Aj. 2 2A:28	. 0
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	31		01 - / 01				187475 / 4: / 8	51

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	
3cT t Hs t Hbæi G A-124(	. 12	2N20		mgjKg		86	77 - 2. 8	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	69		01 - / 01					

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
3cT t Hs t Hbæi G A-124(	. 12	2N66		mgjKg		84	77 - 2. 8	.	26
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		01 - / 01						

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
3cT t Hs t Hbæi G A-124(	) D		0N5	mgjKg			08j. Aj. 2 2A:47	2
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	33		01 - / 01				187475 / 4:23	/

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# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1 j 042AA760A0

Job ID: 570-67094-2

## 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
3cT t Hs t Hbæi G A-124(	) D		5N	mgjKg			08j. Å. 2 25:00	. 0
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	35		01 - / 01				1875475 / 0:11	51

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
3cT t Hs t Hbæi G A-124(	. N	219A6		mgjKg		94	77 - 2. 8
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	// 5		01 - / 01				

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
3cT t Hs t Hbæi G A-124(	. N	21967		mgjKg		94	77 - 2. 8	2	26
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	9/		01 - / 01						

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
3cT t Hs t Hbæi G A-124(	) D		5N	mgjKg			08j. 5j. 2 0A:45	. 0
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	03		01 - / 01				1875075 / 14:20	51

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
3cT t Hs t Hbæi G A-124(	. N	2197.		mgjKg		94	77 - 2. 8
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	81		01 - / 01				

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# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1 j 042AA760A0

Job ID: 570-67094-2

## 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
3cT t Hs t Hbæi G A-124(	. 12.	21968		mgjKg		94	77 - 2. 8	0	26
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	9/		01 - / 01						

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
3cT t Hs t Hbæi G A-124(	) D		50	mgjKg			08j. 5j. 2 22:5.	. 0
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62		01 - / 01				18505/ // :05	51

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		
3cT t Hs t Hbæi G A-124(	. 12.	2199.		mgjKg		9A	77 - 2. 8		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		01 - / 01						

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
3cT t Hs t Hbæi G A-124(	. 12.	21952		mgjKg		87	77 - 2. 8	7	26
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	88		01 - / 01						

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		
3cT t Hs t Hbæi G A-124(	. 12.	21956		mgjKg		9.	77 - 2. 8		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 19		01 - / 01						

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# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1 j 042AA760A0

Job ID: 570-67094-2

## 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
3c T t Hs t Hbæi G A-124(	. 12	2155		mgjKg		84	77 - 2. 8	22	26
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 12		01 - / 01						

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
3c T t Hs t Hbæi G A-124(	) D		20	mgjKg		08j. 5j. 2 24:48	08j. 5j. 2 25:48	. 0
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01			18505/ / 2:48	18505/ / 0:28	51

## 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
3c T t HDli H CRT egi	) D		50	mgjKg		08j. 2j. 2 08:25	08j. 7j. 2 08:.. 0	2
3c T t Hx orpaOICRt egi	) D		50	mgjKg		08j. 2j. 2 08:25	08j. 7j. 2 08:.. 0	2
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	91		01 - / 01			185/ 5/ 18:/ 0	18535/ 18:51	/

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	
3c T t Hx orpaOIC3 27-1 AA(	A00	47516		mgjKg		9A	72 - 249	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	89		01 - / 01					

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	
3c T t HDli H C3 20-1 . 8(	A00	A4. 16		mgjKg		208	76 - 2. 6	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	88		01 - / 01					

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# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1 j 042AA760A0

Job ID: 570-67094-2

## 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
3c T t Hx orpaOIQ 27-1 AA(	A00	A09M		mgjKg		20.	72 - 249	9	.0
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	86		01 - / 01						

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
3c T t HDli H Q 20-1 . 8(	A00	A65N		mgjKg		226	76 - 2. 6	7	.0
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	82		01 - / 01						

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	RPD	RPD Limit
3c T t HDli H Q 20-1 . 8(	2A00	2	A82	A. A0	2	mgjKg	F	582	47 - 275		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	/ 50		01 - / 01								

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	RPD	RPD Limit
3c T t Hx orpaOIQ 27-1 AA(	2200	2 2	506	829M	2	mgjKg	F	-55	72 - 27A		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	38		01 - / 01								

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
3c T t HDli H Q 20-1 . 8(	2A00	2	A80	456A	2	mgjKg	F	AA2	47 - 275	27	.0
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	90		01 - / 01								

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# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1 j 042AA760A0

Job ID: 570-67094-2

## 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
3c T t Hx orbaOICG 27-1 AA(	2200	☀ ☀2	A85	2222	☀ ☀2	mgjKg	F	4	72 - 27A	40	.0
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	99		01 - / 01								

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
3c T t HDli H Qrt egi	) D		5N	mgjKg		08j. 2j. 2 08:. A	08j. 7j. 2 . . :22	2
3c T t Hx orbaOICRt egi	) D		5N	mgjKg		08j. 2j. 2 08:. A	08j. 7j. 2 . . :22	2
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	/ 13		01 - / 01	1875/ 75/ 18:54	187375/ 55:/ /	/		

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		
3c T t Hx orbaOICG 27-1 AA(			A00	A5. N		mgjKg		224	72 - 249		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
n-Octacosane (Surr)		99		01 - / 01							

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		
3cT t HDli H QG 20-1. 8(			A00	A86M		mgjKg		2. .	76 - 2. 6		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
n-Octacosane (Surr)		/ 16		01 - / 01							

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
3c T t Hx orbaOICG 27-1 AA(	A00	A56M		mgjKg		22A	72 - 249	2	.0
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	/ 11		01 - / 01						

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# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1 j 042AA760A0

Job ID: 570-67094-2

## 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
3cT t HDli H Q3 20-1 . 8(	A00	A79N		mgjKg		2.0	76 - 2.6	.	.0
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	/ 15		01 - / 01						

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
3cT t HDli H Q3 20-1 . 8(	2.0		A85	656N		mgjKg	F	22.	47 - 275		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	94		01 - / 01								

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
3cT t Hx orpaOIQ3 27-1 AA(	55		A90	7.9M		mgjKg	F	248	72 - 27A		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	/ 12		01 - / 01								

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
3cT t HDli H Q3 20-1 . 8(	2.0		A8A	657M		mgjKg	F	22.	47 - 275	0	.0
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	96		01 - / 01								

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
3cT t Hx orpaOIQ3 27-1 AA(	55		A89	7.2M		mgjKg	F	246	72 - 27A	2	.0
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	98		01 - / 01								

SuæfleH1 t Q\ li e, i LL1

# 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	

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# 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	

Eurofins Calscience LLC

# 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

Eurofins Calscience LLC



# 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  
 1 roectj/ ite: SEEnx obil MDC j 042AA760A0

Job ID: 570-67094-2

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			6.729 g	5 g	2722Z9	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274786	0Zj8Aj82 2Z:59	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.2A g	20 mL	274425	0Zj82j82 0Z:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		20			27A77Z	0Zj87j82 2Z:29	UJ4V	SCL 2
Instrument ID: GC50										

**Client Sample ID: S-5-I4**

**Lab Sample ID: 570-67093-2**

**Date Collected: 08/11/21 07:55**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			6.228 g	5 g	2722Z9	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274786	0Zj8Aj82 82:07	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.28 g	20 mL	274425	0Zj82j82 0Z:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			27A77Z	0Zj87j82 2Z:49	UJ4V	SCL 2
Instrument ID: GC50										

**Client Sample ID: S-7.5-I4**

**Lab Sample ID: 570-67093-3**

**Date Collected: 08/11/21 08:00**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			7.4A5 g	5 g	2722Z9	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274786	0Zj8Aj82 80:A2	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.27 g	20 mL	274425	0Zj82j82 0Z:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			27A77Z	0Zj87j82 2Z:25	UJ4V	SCL 2
Instrument ID: GC50										

**Client Sample ID: S-10-I4**

**Lab Sample ID: 570-67093-4**

**Date Collected: 08/11/21 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
TotaljNM	1 re3	5045			26.8Z6 g	5 g	2722Z9	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274786	0Zj8Aj82 80:26	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.22 g	20 mL	274425	0Zj82j82 0Z:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj87j82 88:42	N5f 4	SCL 2
Instrument ID: GC50										

SuroKns Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 042AA760A0

Job ID: 570-67094-2

**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
TotaljNM	1 re3	5045			4.682 g	5 g	2722Z9	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274786	0Zj8Aj82 82:48	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.24 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj87j82 88:50	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			6.647 g	5 mL	2722ZZ	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		50	5 mL	5 mL	274786	0Zj8Aj82 22:0Z	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			9.20 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		5			275002	0Zj87j82 84:20	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			6.954 g	5 mL	2722ZZ	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		800	5 mL	5 mL	274959	0Zj8Aj82 84:54	12R	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.0Z g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj87j82 84:40	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			7.842 g	5 g	2722Z9	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274786	0Zj8Aj82 82:5Z	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.06 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj87j82 84:50	N5f 4	SCL 2
Instrument ID: GC50										

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 042AA760A0

Job ID: 570-67094-2

**Client Sample ID: S-10-H3**

**Lab Sample ID: 570-67093-9**

**Date Collected: 08/11/21 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
TotaljNM	1 re3	5045			22.8A4 g	5 mL	2722ZZ	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		50	5 mL	5 mL	274959	0Zj8Aj82 88:29	12R	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.25 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		2			275002	0Zj8Zj82 00:09	N5f 4	SCL 2
Instrument ID: GC50										

**Client Sample ID: S-12.5-H3**

**Lab Sample ID: 570-67093-10**

**Date Collected: 08/11/21 08:35**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			6.254 g	5 g	2722Z9	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	274786	0Zj8Aj82 88:8A	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			9.96 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		2			275002	0Zj8Zj82 00:40	N5f 4	SCL 2
Instrument ID: GC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			7.554 g	5 mL	2722ZZ	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		50	5 mL	5 mL	274959	0Zj8Aj82 88:A4	12R	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			9.9Z g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		20			275002	0Zj8Zj82 00:A9	N5f 4	SCL 2
Instrument ID: GC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			6.26 g	5 mL	2722ZZ	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		800	5 mL	5 mL	274959	0Zj85j82 00:27	12R	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			9.98 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		20			27525A	0Zj8Zj82 29:A8	N5f 4	SCL 2
Instrument ID: GC50										

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 042AA760A0

Job ID: 570-67094-2

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			6.258 g	5 g	272229	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274786	0Zj8Aj82 88:A9	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			9.9A g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj8Zj82 02:89	N5f 4	SCL 2
Instrument ID: GC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			7.488 g	5 mL	27222Z	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		50	5 mL	5 mL	274959	0Zj8Aj82 84:89	12R	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.24 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj8Zj82 02:50	N5f 4	SCL 2
Instrument ID: GC50										

**Client Sample ID: S-12.5-I2**

**Lab Sample ID: 570-67093-15**

**Date Collected: 08/11/21 09:15**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5040C			5.0A g	20 mL	27A405	0Zj85j82 25:02	SZpN	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		80	5 mL	5 mL	27A442	0Zj85j82 27:0A	12R	SCL 8
Instrument ID: GC85										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.2Z g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj8Zj82 08:22	N5f 4	SCL 2
Instrument ID: GC50										

**Client Sample ID: S-2.5-J3**

**Lab Sample ID: 570-67093-16**

**Date Collected: 08/11/21 09:40**

**Matrix: Solid**

**Date Received: 08/12/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			20.5Z6 g	5 g	272229	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274959	0Zj8Aj82 29:45	12R	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.28 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		20			275002	0Zj8Zj82 08:40	N5f 4	SCL 2
Instrument ID: GC50										

# Lab Chronicle

Client: Cardno, Inc  
1 roectj/ ite: SEEnx obil MDC j 042AA760A0

Job ID: 570-67094-2

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			20.2A6 g	5 mL	2722ZZ	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		50	5 mL	5 mL	27A274	0Zj85j82 26:59	MØYS	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.26 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		8			275002	0Zj8Zj82 08:50	N5f 4	SCL 2
Instrument ID: GC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			20.229 g	5 mL	2722ZZ	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		200	5 mL	5 mL	27A28A	0Zj85j82 05:88	MØYS	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.80 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		20			27525A	0Zj8Zj82 80:08	N5f 4	SCL 2
Instrument ID: GC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			6.26 g	5 mL	2722ZZ	0Zj24j82 2A:27	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		200	5 mL	5 mL	27A28A	0Zj85j82 05:A5	MØYS	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.28 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		8			275002	0Zj8Zj82 04:42	N5f 4	SCL 2
Instrument ID: GC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re3	5045			A.90Z g	5 g	2722Z9	0Zj24j82 24:5A	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274959	0Zj8Aj82 2Z:AZ	12R	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.20 g	20 mL	274425	0Zj82j82 02:25	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj8Zj82 04:58	N5f 4	SCL 2
Instrument ID: GC50										



# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 042AA760A0

Job ID: 570-67094-2

**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
TotaljNM	1 re3	5045			5.49Z g	5 mL	2722ZZ	0Zj24j82 2A:27	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		50	5 mL	5 mL	274959	0Zj8Aj82 84:06	12R	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.2Ag	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		2			275002	0Zj8Zj82 07:46	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			6.822 g	5 mL	2722ZZ	0Zj24j82 2A:27	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		850	5 mL	5 mL	27A28A	0Zj85j82 06:09	MØYS	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.28 g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		2			275002	0Zj8Zj82 07:55	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			5.44Z g	5 mL	2722ZZ	0Zj24j82 2A:27	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		500	5 mL	5 mL	27A28A	0Zj85j82 06:48	MØYS	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.29 g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		20			27525A	0Zj8Zj82 80:84	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			28.509 g	5 mL	2722ZZ	0Zj24j82 2A:27	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		500	5 mL	5 mL	27A28A	0Zj85j82 06:56	MØYS	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.24 g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		5			27525A	0Zj8Zj82 80:AA	N5f 4	SCL 2
Instrument ID: GC50										

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 042AA760A0

Job ID: 570-67094-2

**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
TotaljNM	1 re3	5045			4.769 g	5 mL	2722ZZ	0Zj24j82 2A:27	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		500	5 mL	5 mL	27A28A	0Zj85j82 07:A4	MØYS	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.22 g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		5			27525A	0Zj8Zj82 82:0A	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			7.027 g	5 g	2722Z9	0Zj24j82 2A:26	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	274786	0Zj8Aj82 84:25	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.25 g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		2			275002	0Zj8Zj82 09:27	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			20.885 g	5 mL	2722ZZ	0Zj24j82 2A:27	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		500	5 mL	5 mL	27A28A	0Zj85j82 0Z:06	MØYS	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			9.96 g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE		50			27525A	0Zj8Zj82 82:8A	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			6.045 g	5 mL	2722ZZ	0Zj24j82 2A:27	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		500	5 mL	5 mL	27A28A	0Zj85j82 0Z:89	MØYS	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC	DL		9.9Z g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1H-DE	DL	80			275886	0Zj40j82 04:AA	MØW	SCL 2
Instrument ID: GC50										

SuroKns Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEonx obil MDC j 042AA760A0

Job ID: 570-67094-2

**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
TotaljNM	1 re3	5040C			5.04 g	20 mL	27A405	0Zj85j82 25:02	SZpN	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		80	5 mL	5 mL	27A442	0Zj85j82 27:44	12R	SCL 8
Instrument ID: GC85										
/ ilica Gel Cleanu3	1 re3	4550C / GC			9.98 g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj8Zj82 20:27	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			A.468 g	5 g	2722Z9	0Zj24j82 2A:26	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274786	0Zj8Aj82 84:A0	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.25 g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj8Zj82 20:4Z	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			6.67A g	5 mL	2722ZZ	0Zj24j82 2A:27	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		500	5 mL	5 mL	27A28A	0Zj85j82 0Z:54	MØYS	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleanu3	1 re3	4550C / GC			9.9A g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		5			27525A	0Zj8Zj82 88:0A	N5f 4	SCL 2
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
TotaljNM	1 re3	5045			4.664 g	5 g	2722Z9	0Zj24j82 2A:26	SDpA	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		2	5 g	5 mL	274786	0Zj85j82 00:06	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu3	1 re3	4550C / GC			20.28 g	20 mL	274429	0Zj82j82 0Z:8A	U/ UL	SCL 2
/ ilica Gel Cleanu3	Mhalysis	NWT1 H-DE		2			275002	0Zj8Zj82 22:57	N5f 4	SCL 2
Instrument ID: GC50										

## Laboratory References:

SCL 2 = Surokns Calscience LLC Lincoln, 7AA0 Lincoln Way, Garden Grove, CM98ZA2, TSL (72A)Z95-5A9A

SCL 8 = Surokns Calscience LLC Lam3son, 7AA5 Lam3son Mve, Garden Grove, CM98ZA2, TSL (72A)Z95-5A9A

Surokns Calscience LLC

# 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

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

# Method Summary

1 0 en 1 t a eodle,  
c a P, rj/ lri : S E E oex obl QMD1 j 042AA760A0

Job ID: 570-67094-2

Method	Method Description	Protocol	Laboratory
3 N V6 T-HE	3 o a G h i w n- s o C r i C c i r a o C V u c a o r V, r w r h i 1 (	3 N V6 T	S1) L
3 N V6 T-DE	3 o a G h i w n- / i u l- s o C r i C c i r a o C V u c a o r V, r w r h i 1 (	3 N V6 T	S1) 2
45501 / H1	U C a w o e l, S E r d , r o e	/ N 8 A6	S1) 2
50401	c V a i t e r V a g	/ N 8 A6	S1) L
5045	1 Q w i r / p w i u c V a i t e r V a g	/ N 8 A6	S1) L

## Protocol References:

3 N V6 T = 3 o a G h i w n V o r t C c i r a o C V u T p r a o, t a o e

/ N 8 A6 = " W w n x i r G o r w F o a S v t Q t r l e y / o Q N t w i d c Q p w, t Q i G u l, t Q x i r G o r w d W G a S r l r o e d 3 o v i u b i a 2986 M e r l w U g r t r i w

## Laboratory References:

S1) 2 = S V a f l e w 1 t Q, l i e, i ) ) 1 ) l e, o Q d 7 A A 0 ) l e, o Q N t p d H t a r i e H a o v i d 1 M 9 L 8 A 2 d V S ) n 7 2 A ( 8 9 5 - 5 A 9 A

S1) L = S V a f l e w 1 t Q, l i e, i ) ) 1 ) t u g w o e d 7 A A 5 ) t u g w o e M v i d H t a r i e H a o v i d 1 M 9 L 8 A 2 d V S ) n 7 2 A ( 8 9 5 - 5 A 9 A

S V a f l e w 1 t Q, l i e, i ) ) 1

**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

---

**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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7440 LINCOLN WAY  
CALSCIENCE  
GARDEN GROVE, CA 92841-1432  
TEL. (714) 895-5494 FAX. (714) 894-7501

## Site Name

Everett Bulk Plant

## CHAIN OF CUSTODY RECORD

DATE: 8/11/2021

PAGE: 2

OF

2

PROJECT NAME

ExxonMobil ADC / 0314476040

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

E-MAIL: robert.thompson@cardno.com

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.

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

NO. OF CONT

MAT. RIX

SAMPLING

DATE

TIME

Field Point Name

SAMPLE ID

1 S-2.5-T4

2 S-5-T4

3 S-7.5-T4

4 S-10-T4

5 S-12.5-T4

6 S-2.5-H3

7 S-5-H3

8 S-7.5-H3

9 S-10-H3

10 S-12.5-H3

11 S-2.5-T2

12 S-5-T2

13 S-7.5-T2

14 S-10-T2

15 S-12.5-T2

16 S-2.5-J3

17 S-5-J3

18 S-7.5-J3

19 S-10-J3

20 S-12.5-J3

21 DUP

22

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25

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30

GLOBAL ID # COELT LOG CODE:

PROJECT CONTACT

Robert Thompson

SAMPLER(S): Paul Prevou, John Considine

REQUESTED ANALYSIS

Perform MS/MSD, NMTPH-GX TPH as Gasoline and NMTPH-Oil TPH as Diesel and Motor Oil

CONTAINER TYPE

2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

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2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

P O 0314476040, Agreement# A2604415

570-67093 Chain of Custody

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PAGE 2 OF 2

Project Name	ExxonMobil ADC / 0314476040

LABORATORY CLIENT: <b>Cardno</b> ADDRESS: <b>309 South Cloverdale Street Unit A13</b> CITY: <b>Seattle, WA 98108</b>		GLOBAL ID # COE LT LOG CODE:		PROJECT CONTACT: <b>Robert Thompson</b> SAMPLER(S): <b>Paul Prevou, John Considine</b>		P O 0314478040, Agreement# A2804415	
TURNAROUND TIME <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		FAX: <b>N/A</b>		LAB USE ONLY: COOLER REQUEST: <input type="checkbox"/>		TEMP: <b>10C</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, 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		ARCHIVE SAMPLES UNTIL: <b>10/1/2021</b>		REQUESTED ANALYSIS			
RWQCB REPORTING <input type="checkbox"/>		NO. OF CONT		CONTAINER TYPE			
SAMPLE ID		Field Point Name		SAMPLING DATE		TIME	
J9		J9		8/11/2021		1035	
J9		J9		8/11/2021		1100	
J9		J9		8/11/2021		1105	
J9		J9		8/11/2021		1110	
J9		J9		8/11/2021		1115	
J9		J9		8/11/2021		1125	
J9		J9		8/11/2021		1200	
J9		J9		8/11/2021		1205	
J9		J9		8/11/2021		1215	
J9		J9		8/11/2021		1220	
J9		J9		8/11/2021		1225	
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J9		J9		8/11/2021		1235	
J9		J9		8/11/2021		1240	
J9		J9		8/11/2021		1245	
J9		J9		8/11/2021		1250	
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J9		J9		8/11/2021		1300	
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J9		J9		8/11/2021		1400	
J9		J9		8/11/2021		1405	
J9		J9		8/11/2021		1410	
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570-67093 Waybill

Signature: \_\_\_\_\_  
 Date: 8/11/2021

ODY SEAL

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 800-233-8425

8/11/2021 BAF3/TE4A



92 APVA

FedEx  
 TRK# 8135 3322 8201

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 92841  
 CA-US  
 SNA  
 EXP 02/22

Do Not Lift  
 399  
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## 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 $\leq$ 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 $<6\text{mm}$ (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*

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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?



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: 570-67215-1

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

## 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

## Job ID: 570-67215-1

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-67215-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/13/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

#### 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

2 10 e 2 nta i or li d

, tot d e j @ : / SSoi E obC D2 P0M4AA760A0

Job ID: 570-67945-4

## Client Sample ID: S-2.5-R1

## Lab Sample ID: 570-67215-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	4K0		95	) . Pn	400	3	g N ☼ T-s S	☼ ben Tg x
☼ T nHDCH 1Whi . l	4M00		M0	) . Pn	5	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHE oet u GWhi . l	6A0		M0	) . Pn	5	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-5-R1

## Lab Sample ID: 570-67215-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0p54		0p84	) . Pn	4	3	g N ☼ T-s S	☼ ben Tg x

## Client Sample ID: S-7.5-R1

## Lab Sample ID: 570-67215-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	4p0		0p49	) . Pn	4	3	g N ☼ T-s S	☼ ben Tg x
☼ T nHDCH 1Whi . l	66		M0	) . Pn	5	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHE oet u GWhi . l	990		M0	) . Pn	5	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-10-R1

## Lab Sample ID: 570-67215-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0pM6		0p49	) . Pn	4	3	g N ☼ T-s S	☼ ben Tg x
☼ T nHDCH 1Whi . l	6M		49	) . Pn	9	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHE oet u GWhi . l	900		49	) . Pn	9	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-12.5-R1

## Lab Sample ID: 570-67215-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet u GWhi . l	M00		95	) . Pn	9	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-2.5-Q6

## Lab Sample ID: 570-67215-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	9400		450	) . Pn	500	3	g N ☼ T-s S	☼ ben Tg x
☼ T nHDCH 1Whi . l	6000		74	) . Pn	40	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHE oet u GWhi . l	470		74	) . Pn	40	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-5-Q6

## Lab Sample ID: 570-67215-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	5K0		70	) . Pn	500	3	g N ☼ T-s S	☼ ben Tg x
☼ T nHDCH 1Whi . l	MA00		69	) . Pn	40	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHE oet u GWhi . l	4A0		69	) . Pn	40	3	g N ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-7.5-Q6

## Lab Sample ID: 570-67215-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0p80		0p45	) . Pn	4	3	g N ☼ T-s S	☼ ben Tg x

☼ hGDI d d e o i j Q ) ) nty aol Hi oeCd d Cal tnaC dhl ) Cdn1 d HbtI HO H p

/ CtofCH2 n1 H d Ci dl LL2

# Detection Summary

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Job ID: 570-67945-4

, tot de j @ : / SSoi E obC D2 P0M4AA760A0

Client Sample ID: S-10-Q6

Lab Sample ID: 570-67215-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	4M0		56	) . Pn	500	3	g N ☼ T-s S	☼ ben j x
☼ T nHDCH 1Whi . l	6pM		6p4	) . Pn	4	3	g N ☼ T-DS	j ☼ an s l 1 2 1 ni CR

Client Sample ID: S-12.5-Q6

Lab Sample ID: 570-67215-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	IM		49	) . Pn	400	3	g N ☼ T-s S	☼ ben j x
☼ T nHDCH 1Whi . l - Wk	Kp5		6p6	) . Pn	4	3	g N ☼ T-DS	j ☼ an s l 1 2 1 ni CR
☼ T nHE oet u QWhi . l - Wk	8p4		6p6	) . Pn	4	3	g N ☼ T-DS	j ☼ an s l 1 2 1 ni CR

# 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

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# Client Sample Results

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

Job ID: 570-67215-1

**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**

## 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**

**Date Collected: 08/12/21 13:25**

**Date Received: 08/13/21 10:15**

**Lab Sample ID: 570-67215-5**

**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		0.58	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**

**Date Collected: 08/12/21 13:45**

**Date Received: 08/13/21 10:15**

**Lab Sample ID: 570-67215-6**

**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)	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

Eurofins Calscience LLC

# 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

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# 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

2101 e 2 n tai or li d

Job ID: 570-67945-4

, tot de f @ : / SSoi E obC D2 P0M4A760A0

## 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
3, T nHs nHbCl A-24M	) D		0N5	. nfgm			0K95P4 0A:44	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		05 - 105				5/ 2021 54:11	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
3, T nHs nHbCl A-24M	) D		5N0	. nfgm			0K95P4 0A:M5	90
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	08		05 - 105				5/ 2021 54:30	25

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
3, T nHs nHbCl A-24M	9M9	4N79		. nfgm		8M	77 - 49K
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	/ 5		05 - 105				

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
3, T nHs nHbCl A-24M	9M9	4N6K		. nfgm		8M	77 - 49K	0	46
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	61		05 - 105						

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
3, T nHs nHbCl A-24M	) D		0N5	. nfgm			0K95P4 44:96	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		05 - 105				5/ 2021 11:29	1

/ utofCH2 n1HbCl dl LL2

# QC Sample Results

21 e 2 n tai or li d

, tot de / SSoi E obC D2 P0M4A760A0

Job ID: 570-67945-4

## 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
3, T nHs nHbCl A-24M			9M9	4M89		. nfm		8A	77 - 49K
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 6		05 - 105						

Lab Sample ID: LCSD 570-174173/4

Matrix: Solid

Analysis Batch: 174173

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

				Spike	LCSD	LCSD				%Rec.	RPD	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
3, T nHs nHbCl A-24M				9M9	4M54		. nfm		K7	77 - 49K	7	46
Surrogate	%Recovery	LCSD	LCSD	Limits								
4-Bromofluorobenzene (Surr)	//			05 - 105								

## 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	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
3, T nHDC H 1Rni nt	) D		5N	. nfm		OKP4P4 0K:4K	OKP6P4 47:45	4
3, T nHE oet OGRni nt	) D		5N	. nfm		OKP4P4 0K:4K	OKP6P4 47:45	4
Surrogate	%Recovery	MB	MB			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	110			Limits		5/ 72121 5/:1/	5/ 72921 18:10	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

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
3, T nHE oet OGR 47-2 AA			A00	A0A5		. nfm		404	74 - 4M8		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	113		05 - 105								

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

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
3, T nHDC H 1Q 40-29K			A00	A56N		. nfm		44A	76 - 496		
		LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	116		05 - 105								

/ utofCH2 n1dCi dl LL2



# QC Sample Results

2101 e 2 n tai or li d

Job ID: 570-67945-4

, tot de / SSoi E ob D2 P0M4AA760A0

## 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
3, T nHE oet OQ 47-2 AA(	A00	A0716		. nfgm		409	74 - 4M8	4	90
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	114		05 - 105						

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
3, T nHDCH 1Q 40-29K(	A00	A5819		. nfgm		445	76 - 496	) n)	90
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	114		05 - 105						

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	RPD	RPD Limit
3, T nHDCH 1Q 40-29K(	4500	4	50A	9989		. nfgm	F	466	M - 475		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	11/		05 - 105								

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	RPD	RPD Limit
3, T nHE oet OQ 47-2 AA(	4900	4	54A	4895		. nfgm	F	4M8	74 - 47A		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	156		05 - 105								

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
3, T nHDCH 1Q 40-29K(	4500	4	506	9M7K	4	. nfgm	F	4K9	M - 475	A	90
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	11/		05 - 105								

/ utofCH2n1dCi dl LL2

# QC Sample Results

2101 e 2 nta i or li d

, tot de / SSoi E obC D2 P0M4AA760A0

Job ID: 570-67945-4

## 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3, T nHE oæt OQ 47-2 AA(	4900	4	54M	99MA	4	. nfm	F	900	74 - 47A	45	90
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	124		05 - 105								

/ utofC H2 n1 dCi dl LL2

# 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	
LCSD 570-174124/38	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### Analysis Batch: 174173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67215-3	S-7.5-R1	Total/NA	Solid	NWTPH-Gx	172029
570-67215-4	S-10-R1	Total/NA	Solid	NWTPH-Gx	172029
570-67215-5	S-12.5-R1	Total/NA	Solid	NWTPH-Gx	172029
570-67215-8	S-7.5-Q6	Total/NA	Solid	NWTPH-Gx	172029
MB 570-174173/5	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-174173/3	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-174173/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

## GC Semi VOA

### Prep Batch: 173316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67215-1	S-2.5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-2	S-5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-3	S-7.5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-4	S-10-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-5	S-12.5-R1	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-6	S-2.5-Q6	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-7	S-5-Q6	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-8	S-7.5-Q6	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-9	S-10-Q6	Silica Gel Cleanup	Solid	3550C SGC	
570-67215-10 - RA	S-12.5-Q6	Silica Gel Cleanup	Solid	3550C SGC	

Eurofins Calscience LLC

# 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		100	5 mL	5 mL	174124	08/25/21 10:03	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			174648	08/27/21 06:37	A1W	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	174124	08/25/21 04:58	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 06:59	A1W	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	174173	08/25/21 13:09	A9VE	ECL 2
		Instrument ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			174648	08/27/21 08:07	A1W	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	174173	08/25/21 14:51	A9VE	ECL 2
		Instrument ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			174778	08/27/21 20:12	UJ3K	ECL 1
		Instrument ID: GC50								

# 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		1	5 g	5 mL	174173	08/25/21 12:43	A9VE	ECL 2
		Instrument ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			9.91 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			174648	08/27/21 08:50	A1W	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-2.5-Q6**

**Lab Sample ID: 570-67215-6**

**Date Collected: 08/12/21 13:45**

**Matrix: Solid**

**Date Received: 08/13/21 10:15**

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		500	5 mL	5 mL	174124	08/25/21 10:26	A9VE	ECL 2
		Instrument ID: GC57								
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		10			174778	08/27/21 19:40	UJ3K	ECL 1
		Instrument ID: GC50								

**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		500	5 mL	5 mL	174124	08/25/21 10:50	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.95 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			174648	08/27/21 09:34	A1W	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	174173	08/25/21 22:44	A9VE	ECL 2
		Instrument ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			9.93 g	10 mL	173316	08/21/21 08:18	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			174648	08/27/21 09:56	A1W	ECL 1
		Instrument ID: GC48								



# Lab Chronicle

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

Job ID: 570-67215-1

**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**

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**

**Date Collected: 08/12/21 14:05**

**Date Received: 08/13/21 10:15**

**Lab Sample ID: 570-67215-10**

**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			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  
1 roPctj/ ite: SEEnx obiljMDC j 0A43376030

Job ID: 570-67845-4

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	/ tate	C946-42	40-44-84

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

# Method Summary

2 10 e 2 ntai or li d  
, tot de p @ : / SSoi E obC D2 P0M4AA760A0

Job ID: 570-67945-4

Method	Method Description	Protocol	Laboratory
3 N W T-HS	3 oteChl we- sohe3 , l do1 Vu , toaVdevrh12(	3 N W T	/ 2 ) 9
3 N W T-DS	3 oteChl we- j l u Gsohe3 , l do1 Vu , toaVdevrh12(	3 N W T	/ 2 ) 4
M502 j H2	8 tinwoi d / Sanderi	j N LA6	/ 2 ) 4
50M5	2 bw a j Uu u , Vtyl ni a Wng	j N LA6	/ 2 ) 9

## Protocol References:

3 N W T p 3 oteChl weVden1, l do1 Vu TLatodntboi  
j N LA6 p =VweE l Gpaw" ot / FnVneCy j o1a Nnwe r , GUWdh 12 G u Qn1E l Gpawr WQa / aGoi r 3 oFl u bl t 4vL6 xi a lew8 gané w

## Laboratory References:

/ 2 ) 4 p / VtofCw2n1wdCi dl )) 2 ) Cdo1 r 7AA0 ) Cdo1 N nU r Hntal i HtoFl r 2 x v9LA4r W ) n74A(Lv5-5AvA  
/ 2 ) 9 p / VtofCw2n1wdCi dl )) 2 ) nu gwoi r 7AA5 ) nu gwoi xFl r Hntal i HtoFl r 2 x v9LA4r W ) n74A(Lv5-5AvA

/ VtofCw2n1wdCi dl )) 2



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: 8/12/2021

PAGE 1 OF 1

<b>ExxonMobil Engr</b>	Jennifer Sedlachek
------------------------	--------------------

<b>LABORATORY CLIENT:</b> <b>Cardno</b> ADDRESS: 309 South Cloverdale Street Unit A13 CITY: Seattle, WA 98108 TEL: 206-510-5855 FAX: N/A TURNAROUND TIME: <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 / /		<b>GLOBAL ID # COELT LOG CODE:</b> P O 0314476040 Agreement# A2604415	
<b>PROJECT CONTACT:</b> Robert Thompson SAMPLER(S): Paul Prevou, John Considine		<b>LAB USE ONLY:</b> COOLER RECEIPT Temp: °C	
<b>SPECIAL INSTRUCTIONS:</b> Required EMI 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		<b>REQUESTED ANALYSIS</b>	
<b>NO. OF CONT</b>		<b>CONTAINER TYPE</b>	
1 S-2.5-R1		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
2 S-5-R1		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
3 S-7.5-R1		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
4 S-10-R1		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
5 S-12.5-R1		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
6 S-2.5-R6		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
7 S-5-R6		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
8 S-7.5-R6		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
9 S-10-R6		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
10 S-12.5-R6		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
S-2.5-		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
S-5-		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
S-7.5-		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
S-10-		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
S-12.5-		2 Sodium Bisulfate VOA, 1 Methanol VOA, one 4oz un-preserved glass jar	
Trip Blank			
EQB+			
Relinquished by (Signature)		Received by (Signature)	
Paul Prevou		FedEx	
Relinquished by (Signature)		Received by (Signature)	
Relinquished by (Signature)		Received by (Signature)	
Relinquished by (Signature)		Received by (Signature)	



## 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 $\leq$ 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 $<6\text{mm}$ (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 VeO i Ac p

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 are only used abbreviations that 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

## Job ID: 570-67217-1

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-67217-1

#### Comments

No additional comments.

#### Revision

The report being provided is a revision of the original report sent on 08/27/2021. The report (Revision 1) is being revised due to: Sample ID for DUP (570-67217-20) should have been named as S-10-R5 DUP. Revised COC is attached.

#### Receipt

The samples were received on 8/13/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.3° C and 3.5° C.

#### GC VOA

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

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174124. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174173. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: The following sample was diluted due to the nature of the sample matrix: S-5-B9 (570-67217-7). Elevated reporting limits (RLs) are provided.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174333. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174393. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-174430. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

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

#### GC Semi VOA

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-173317 and analytical batch 570-174648 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

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

#### General Chemistry

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

#### Organic Prep

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

#### VOA Prep

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

Case Narrative

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

Job ID: 570-67217-1

Job ID: 570-67217-1 (Continued)

Laboratory: Eurofins Calscience LLC (Continued)

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# Detection Summary

2 10 e 2 nta i or li d

Job ID: 570-67947-4

, tot dēf @ : / SSoi E obCx D2 P0M#AA760A0

## Client Sample ID: S-2.5-A6

## Lab Sample ID: 570-67217-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	590		55	) . Pn	950	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCH 1Nni . l	7M00		55	) . Pn	40	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO
☼ T nHE oet RGNni . l	4600		55	) . Pn	40	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-5-A6

## Lab Sample ID: 570-67217-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	990		56	) . Pn	950	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCH 1Nni . l	4700		M0	) . Pn	5	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO
☼ T nHE oet RGNni . l	A40		M0	) . Pn	5	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-7.5-A6

## Lab Sample ID: 570-67217-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	A50		69	) . Pn	950	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCH 1Nni . l	6700		570	) . Pn	400	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO
☼ T nHE oet RGNni . l	M500		570	) . Pn	400	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-10-A6

## Lab Sample ID: 570-67217-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	50		0u4p	) . Pn	4	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCH 1Nni . l	pu4		6uM	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO
☼ T nHE oet RGNni . l	44		6uM	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-12.5-A6

## Lab Sample ID: 570-67217-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0uA0		0u84	) . Pn	4	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCH 1Nni . l	pM		8u0	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO
☼ T nHE oet RGNni . l	55		8u0	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-2.5-B9

## Lab Sample ID: 570-67217-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0u60		0u84	) . Pn	4	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCH 1Nni . l	9M		5u7	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO
☼ T nHE oet RGNni . l	AA		5u7	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-5-B9

## Lab Sample ID: 570-67217-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	pu0		9u6	) . Pn	90	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCH 1Nni . l - Nx	440		6uA	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

☼hCIDI d dēci j VY ) nty aol Hi oeCdWdl tnaCdhI ) Cn1d HbtI HwHu

/ WofCH2n1HdCi dl LL2



# Detection Summary

2 10 e 2 ntai or li d

, tot ddf @ : / SSoi E obCx D2 POM#AA760A0

Job ID: 570-67947-4

## Client Sample ID: S-5-B9 (Continued)

## Lab Sample ID: 570-67217-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHEoet RGNni . I - Nx	450		6uA	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-7.5-B9

## Lab Sample ID: 570-67217-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	6u8		0u85	) . Pn	4	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCCH 1Nni . I	p8		6u8	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO
☼ T nHEoet RGNni . I	60		6u8	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-10-B9

## Lab Sample ID: 570-67217-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	M5		7u4	) . Pn	50	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCCH 1Nni . I - Nx	460		6uA	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO
☼ T nHEoet RGNni . I - Nx	440		6uA	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-12.5-B9

## Lab Sample ID: 570-67217-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	AM		6u0	) . Pn	50	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCCH 1Nni . I - Nx	450		5up	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO
☼ T nHEoet RGNni . I - Nx	490		5up	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-2.5-S4

## Lab Sample ID: 570-67217-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0u60		0u8A	) . Pn	4	3	gK ☼ T-s S	☼ben Rx

## Client Sample ID: S-5-S4

## Lab Sample ID: 570-67217-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0u85		0u80	) . Pn	4	3	gK ☼ T-s S	☼ben Rx
☼ T nHEoet RGNni . I	9M		5u8	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

## Client Sample ID: S-7.5-S4

## Lab Sample ID: 570-67217-13

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## Client Sample ID: S-10-S4

## Lab Sample ID: 570-67217-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0u49		0u8A	) . Pn	4	3	gK ☼ T-s S	☼ben Rx
☼ T nHDCCH 1Nni . I - Nx	40		5up	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO
☼ T nHEoet RGNni . I - Nx	4p0		5up	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni VO

☼hCIDI d dcoi j Vy ) nty aol Hi oeCdVAl tnaCdhI ) Cn1d HbtI HWHu

/ WofCH2n1HbCi dl LL2

# Detection Summary

2 10 e 2 nta i or li d  
, tot d e j @ : / SSoi E ob Cx D2 P0M#AA760A0

Job ID: 570-67947-4

## Client Sample ID: S-12.5-S4

## Lab Sample ID: 570-67217-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oæt RGNni . I - Nx	990		4p	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-2.5-R5

## Lab Sample ID: 570-67217-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb C I A-24M	40		0u48	) . Pn	4	3	gK ☼ T-s S	☼ ben R x
☼ T nHDC H 1Nni . I	7u5		5u7	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0
☼ T nHE oæt RGNni . I	47		5u7	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-10-R5

## Lab Sample ID: 570-67217-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb C I A-24M	Ip		46	) . Pn	400	3	gK ☼ T-s S	☼ ben R x
☼ T nHDC H 1Nni . I	4A0		4M	) . Pn	9	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0
☼ T nHE oæt RGNni . I	4M0		4M	) . Pn	9	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-12.5-R5

## Lab Sample ID: 570-67217-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb C I A-24M	45		5u7	) . Pn	50	3	gK ☼ T-s S	☼ ben R x
☼ T nHE oæt RGNni . I	7u7		6uM	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-13-B9

## Lab Sample ID: 570-67217-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb C I A-24M	p8		44	) . Pn	50	3	gK ☼ T-s S	☼ ben R x
☼ T nHDC H 1Nni . I	AA0		98	) . Pn	5	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0
☼ T nHE oæt RGNni . I	970		98	) . Pn	5	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-10-R5 DUP

## Lab Sample ID: 570-67217-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb C I A-24M	A50		94	) . Pn	400	3	gK ☼ T-s S	☼ ben R x
☼ T nHDC H 1Nni . I - Nx	4A0		6uA	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0
☼ T nHE oæt RGNni . I - Nx	4M0		6uA	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-2.5-R3

## Lab Sample ID: 570-67217-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb C I A-24M	0u55		0u96	) . Pn	4	3	gK ☼ T-s S	☼ ben R x

## Client Sample ID: S-5-R3

## Lab Sample ID: 570-67217-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb C I A-24M	0u7A		0u44	) . Pn	4	3	gK ☼ T-s S	☼ ben R x
☼ T nHDC H 1Nni . I - Nx	M9		6uM	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

☼ hCIDI e d eCi j Vy ) nty aol Hi oeCdWdl tnaCdhI ) Cdn1e HbtI HWHu

/ WofCH2n1HbCi dl LL2

# Detection Summary

2 10 e 2 ntai or li d

, tot deP @ : / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67947-4

## Client Sample ID: S-5-R3 (Continued)

Lab Sample ID: 570-67217-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet RGNni . I - Nx	Ap0		6uM	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-7.5-R3

Lab Sample ID: 570-67217-23

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## Client Sample ID: S-10-R3

Lab Sample ID: 570-67217-24

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## Client Sample ID: S-12.5-R3

Lab Sample ID: 570-67217-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet RGNni . I	440		48	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-2.5-S2

Lab Sample ID: 570-67217-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbDI Q A-24M	0uB		0uB4	) . Pn	4	3	gK ☼ T-s S	☼ ben Rx
☼ T nHDCH 1Nni . I	94		6uB	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0
☼ T nHE oet RGNni . I	490		6uB	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-5-S2

Lab Sample ID: 570-67217-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbDI Q A-24M	0uB5		0uB9	) . Pn	4	3	gK ☼ T-s S	☼ ben Rx
☼ T nHDCH 1Nni . I	45		5uB	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0
☼ T nHE oet RGNni . I	4A0		5uB	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-7.5-S2

Lab Sample ID: 570-67217-28

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## Client Sample ID: S-10-S2

Lab Sample ID: 570-67217-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbDI Q A-24M	0uB4		0uB4	) . Pn	4	3	gK ☼ T-s S	☼ ben Rx
☼ T nHDCH 1Nni . I	90		6uB	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0
☼ T nHE oet RGNni . I	A8		6uB	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

## Client Sample ID: S-12.5-S2

Lab Sample ID: 570-67217-30

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet RGNni . I	7A		4A	) . Pn	4	3	gK ☼ T-DS	j Cdn s l 1 21 ni W0

☼ hCIDI e deoi j Vy ) nty aol Hi oeCdWAl tnaCdhI ) Cn1e HbtI HwHu

/ WofCH2n1HdCi dl LL2

# Client Sample Results

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

Job ID: 570-67217-1

Client Sample ID: S-815-26

Lab Sample ID: 570-67847-4

Date Cr Ileotex: 0dd48d4 07:/ 0

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Date Reoei3ex: 0dd4/ d4 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	580		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)	85		01 - / 01			172 : 23/ / 061/	1723023/ / 96 1	301

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	71 00		55	mg/Kg	☆	08/21/21 08:21	08/26/21 1. :47	10
WTP as . r tr BOil Ranf e	4600		55	mg/Kg	☆	08/21/21 08:21	08/26/21 1. :47	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 39		01 - / 01			1723/ 23/ 1763/	1723823/ / 564:	/ 1

Client Sample ID: S-5-26

Lab Sample ID: 570-67847-8

Date Cr Ileotex: 0dd48d4 07:/ 5

. atBM Sr lix

Date Reoei3ex: 0dd4/ d4 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	880		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)	: 3		01 - / 01			172 : 23/ / 061/	1723023/ / 964	301

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	4700		30	mg/Kg	☆	08/21/21 08:21	08/26/21 20:08	5
WTP as . r tr BOil Ranf e	) 40		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)	/ 1:		01 - / 01			1723/ 23/ 1763/	1723823/ 31617	0

Client Sample ID: S-715-26

Lab Sample ID: 570-67847-/

Date Cr Ileotex: 0dd48d4 07:) 0

. atBM Sr lix

Date Reoei3ex: 0dd4/ d4 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	) 50		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)	0:		01 - / 01			172 : 23/ / 061/	1723023/ / 96:	301

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	6700		570	mg/Kg	☆	08/21/21 08:21	08/26/21 20:2.	100
WTP as . r tr BOil Ranf e	/ 500		570	mg/Kg	☆	08/21/21 08:21	08/26/21 20:2.	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 3:		01 - / 01			1723/ 23/ 1763/	1723823/ 31635	/ 11

ETrolihs Calscience RRC

# Client Sample Results

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

Job ID: 570-67217-1

Client Sample ID: S-40-26

Lab Sample ID: 570-67847-)

Date Cr Ileotex: 0d484 07:5

. atBM Sr lix

Date Reoei3ex: 0d4/ 4 40:45

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	5B		0N8	mg/Kg	☆	08/17/21 15:02	08/25/21 01:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8/		01 - / 01			172 : 23 / 0613	172023/ 1/ 619	/

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	d/		6N	mg/Kg	☆	08/21/21 08:21	08/26/21 20:50	1
WTP as . r tr BOil Ranf e	44		6N	mg/Kg	☆	08/21/21 08:21	08/26/21 20:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 5		01 - / 01			1723/ 23/ 1763/	1723823/ 31/ 61	/

Client Sample ID: S-4815-26

Lab Sample ID: 570-67847-5

Date Cr Ileotex: 0d484 07:50

. atBM Sr lix

Date Reoei3ex: 0d4/ 4 40:45

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	010		0N1	mg/Kg	☆	08/17/21 15:02	08/25/21 01:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	5/		01 - / 01			172 : 23 / 0613	172023/ 1/ 61	/

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	d/		. N	mg/Kg	☆	08/21/21 08:21	08/26/21 21:12	1
WTP as . r tr BOil Ranf e	55		. N	mg/Kg	☆	08/21/21 08:21	08/26/21 21:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// :		01 - / 01			1723/ 23/ 1763/	1723823/ 3/ 613	/

Client Sample ID: S-815-g9

Lab Sample ID: 570-67847-6

Date Cr Ileotex: 0d484 09:00

. atBM Sr lix

Date Reoei3ex: 0d4/ 4 40:45

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	0160		0N1	mg/Kg	☆	08/17/21 15:02	08/25/21 01:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 7		01 - / 01			172 : 23 / 0613	172023/ 1/ 61	/

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	8/		5N	mg/Kg	☆	08/21/21 08:21	08/26/21 21:33	1
WTP as . r tr BOil Ranf e	) )		5N	mg/Kg	☆	08/21/21 08:21	08/26/21 21:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	///		01 - / 01			1723/ 23/ 1763/	1723823/ 3/ 619	/

ETroths Calscience RRC

# Client Sample Results

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

Job ID: 570-67217-1

Client Sample ID: S-5-g9

Date Cr Ileotex: 0d484 09:05

Date Reoei3ex: 0d4/ 4 40:45

Lab Sample ID: 570-67847-7

. atBM Sr lix

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	d10		2N	mg/Kg	☆	08/17/21 15:01	08/26/21 12:46	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		01 - / 01	172 : 23 / 061	172823 / 3048	31

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup - R2

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	440		6N	mg/Kg	☆	08/21/21 08:21	08/27/21 16:05	1
WTP as . r tr BOil Ranf e	450		6N	mg/Kg	☆	08/21/21 08:21	08/27/21 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 1		01 - / 01	1723 : 23 / 1763	1723 : 23 / 8610	/

Client Sample ID: S-715-g9

Date Cr Ileotex: 0d484 09:40

Date Reoei3ex: 0d4/ 4 40:45

Lab Sample ID: 570-67847-d

. atBM Sr lix

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	69		0N25	mg/Kg	☆	08/17/21 15:02	08/26/21 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	05		01 - / 01	172 : 23 / 0613	172823 / 0088	/

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	d9		6N2	mg/Kg	☆	08/21/21 08:21	08/26/21 22:17	1
WTP as . r tr BOil Ranf e	60		6N2	mg/Kg	☆	08/21/21 08:21	08/26/21 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 5		01 - / 01	1723 : 23 / 1763	172823 / 336 :	/

Client Sample ID: S-40-g9

Date Cr Ileotex: 0d484 09:45

Date Reoei3ex: 0d4/ 4 40:45

Lab Sample ID: 570-67847-9

. atBM Sr lix

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	/ 5		7N	mg/Kg	☆	08/17/21 15:01	08/26/21 0 : 55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01	172 : 23 / 061	172823 / 1500	01

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup - R2

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	460		6N	mg/Kg	☆	08/21/21 08:21	08/27/21 16:27	1
WTP as . r tr BOil Ranf e	440		6N	mg/Kg	☆	08/21/21 08:21	08/27/21 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 15		01 - / 01	1723 : 23 / 1763	1723 : 23 / 868 :	/

ETroths Calscience RRC



# Client Sample Results

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

Job ID: 570-67217-1

Client Sample ID: S-4815-g9

Lab Sample ID: 570-67847-40

Date Cr Ileotex: 0dd48d84 09:80

. atBM Sr lix

Date Reoei3ex: 0dd4/ d84 40:45

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	/		6N	mg/Kg	☆	08/17/21 15:01	08/26/21 10:20	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 1		01 - / 01	172: 23 / 061	1723823 / 1631	01

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup - R2

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	450		5N	mg/Kg	☆	08/21/21 08:21	08/27/21 16:48	1
WTP as . r tr BOil Ranf e	480		5N	mg/Kg	☆	08/21/21 08:21	08/27/21 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 4		01 - / 01	1723: 23 / 1763	1723: 23 / 8647	/

Client Sample ID: S-815-S)

Lab Sample ID: 570-67847-44

Date Cr Ileotex: 0dd48d84 40:05

. atBM Sr lix

Date Reoei3ex: 0dd4/ d84 40:45

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	0160		0N24	mg/Kg	☆	08/17/21 15:02	08/25/21 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 8		01 - / 01	172: 23 / 0613	1723023 / 1364	/

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		6N	mg/Kg	☆	08/21/21 08:21	08/27/21 00:05	1
9PO as Motor L il u ange	f D		6N	mg/Kg	☆	08/21/21 08:21	08/27/21 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 18		01 - / 01	1723: 23 / 1763	1723: 23 / 11610	/

Client Sample ID: S-5-S)

Lab Sample ID: 570-67847-48

Date Cr Ileotex: 0dd48d84 40:40

. atBM Sr lix

Date Reoei3ex: 0dd4/ d84 40:45

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	0185		0N20	mg/Kg	☆	08/17/21 15:02	08/25/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		01 - / 01	172: 23 / 0613	1723023 / 06:	/

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		5N	mg/Kg	☆	08/21/21 08:21	08/27/21 00:26	1
WTP as . r tr BOil Ranf e	8/		5N	mg/Kg	☆	08/21/21 08:21	08/27/21 00:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 1		01 - / 01	1723: 23 / 1763	1723: 23 / 11638	/

ETroths Calscience RRC

# Client Sample Results

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

Job ID: 570-67217-1

Client Sample ID: S-715-S)

Date Cr Ileotex: 0d484 40:45

Date Reoei3ex: 0d4/ 4 40:45

Lab Sample ID: 570-67847-4/

. atBM Sr lix

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Gasoline (C4-C13)	f D		0N3	mg/Kg	☆	08/17/21 15:02	08/24/21 20:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55		01 - / 01			172 : 2/ / 0613	17242/ 3163	/

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		6N	mg/Kg	☆	08/21/21 08:21	08/27/21 00:47	1
9PO as Motor L il u ange	f D		6N	mg/Kg	☆	08/21/21 08:21	08/27/21 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 4		01 - / 01			172/ 2/ / 176/	172: 2/ / 116:	/

Client Sample ID: S-40-S)

Date Cr Ileotex: 0d484 40:8/

Date Reoei3ex: 0d4/ 4 40:45

Lab Sample ID: 570-67847-4)

. atBM Sr lix

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	018		0N. 4	mg/Kg	☆	08/17/21 15:02	08/25/21 15:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		01 - / 01			172 : 2/ / 0613	17202/ / 0613	/

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup - R2

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	40		5N	mg/Kg	☆	08/21/21 08:21	08/27/21 17:10	1
WTP as . r tr BOil Ranf e	4d0		5N	mg/Kg	☆	08/21/21 08:21	08/27/21 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 8		01 - / 01			172/ 2/ / 176/	172: 2/ / : 61	/

Client Sample ID: S-4815-S)

Date Cr Ileotex: 0d484 40:85

Date Reoei3ex: 0d4/ 4 40:45

Lab Sample ID: 570-67847-45

. atBM Sr lix

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Gasoline (C4-C13)	f D		0N7	mg/Kg	☆	08/17/21 15:02	08/25/21 1. :30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	03		01 - / 01			172 : 2/ / 0613	17202/ / 501	/

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup - R2

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		18	mg/Kg	☆	08/21/21 08:21	08/27/21 17:32	1
WTP as . r tr BOil Ranf e	880		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)	/ 39		01 - / 01			172/ 2/ / 176/	172: 2/ / : 03	/

ETroths Calscience RRC

# Client Sample Results

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

Job ID: 570-67217-1

Client Sample ID: S-815-R5

Lab Sample ID: 570-67847-46

Date Cr Ileotex: 0dd484 40:5

. atBM Sr lix

Date Reoei3ex: 0dd4/ 484 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	410		0N.	mg/Kg	☆	08/17/21 15:02	08/25/21 16:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58		01 - / 01			172 : 23 / 0613	172023 / 809	/

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	715		5N	mg/Kg	☆	08/21/21 08:21	08/27/21 01:53	1
WTP as . r tr BOil Ranf e	47		5N	mg/Kg	☆	08/21/21 08:21	08/27/21 01:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 9		01 - / 01			1723 : 23 / 1763	1723 : 23 / 1709	/

Client Sample ID: S-40-R5

Lab Sample ID: 570-67847-47

Date Cr Ileotex: 0dd484 44:00

. atBM Sr lix

Date Reoei3ex: 0dd4/ 484 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	/ d		16	mg/Kg	☆	08/17/21 15:01	08/26/21 13:3.	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		01 - / 01			172 : 23 / 061	1723823 / 905	/ 11

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	4) 0		13	mg/Kg	☆	08/21/21 08:21	08/27/21 02:14	2
WTP as . r tr BOil Ranf e	4/ 0		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)	/ 1:		01 - / 01			1723 : 23 / 1763	1723 : 23 / 1364	3

Client Sample ID: S-4815-R5

Lab Sample ID: 570-67847-4d

Date Cr Ileotex: 0dd484 44:05

. atBM Sr lix

Date Reoei3ex: 0dd4/ 484 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	45		5N	mg/Kg	☆	08/17/21 15:01	08/26/21 10:45	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	07		01 - / 01			172 : 23 / 061	1723823 / 1640	01

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		6N	mg/Kg	☆	08/21/21 08:21	08/27/21 02:36	1
WTP as . r tr BOil Ranf e	717		6N	mg/Kg	☆	08/21/21 08:21	08/27/21 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 3		01 - / 01			1723 : 23 / 1763	1723 : 23 / 1308	/

ETroths Calscience RRC

# Client Sample Results

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

Job ID: 570-67217-1

Client Sample ID: S-4/ -g9

Date Cr Ileotex: 0d484 09:85

Date Reoei3ex: 0d4/ 4 40:45

Lab Sample ID: 570-67847-49

. atBM Sr lix

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualieB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	d9		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)	05		01 - / 01	172 : 23 / 061	172823 / 11 6 /	01

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualieB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	) ) 0		2.	mg/Kg	☆	08/21/21 08:21	08/27/21 02:57	5
WTP as . r tr BOil Ranf e	870		2.	mg/Kg	☆	08/21/21 08:21	08/27/21 02:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 9		01 - / 01	1723 / 23 / 1763	1723 : 23 / 13 0 :	0

Client Sample ID: S-40-R5 Dz T

Date Cr Ileotex: 0d484 44:40

Date Reoei3ex: 0d4/ 4 40:45

Lab Sample ID: 570-67847-80

. atBM Sr lix

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualieB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	) 50		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)	80		01 - / 01	172 : 23 / 061	172823 / 11 0 :	/ 11

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup - R2

2 nalAte	Result	UualieB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	4) 0		6M	mg/Kg	☆	08/21/21 08:21	08/27/21 17:53	1
WTP as . r tr BOil Ranf e	4/ 0		6M	mg/Kg	☆	08/21/21 08:21	08/27/21 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	55		01 - / 01	1723 / 23 / 1763	1723 : 23 / 1 : 09	/

Client Sample ID: S-815-R/

Date Cr Ileotex: 0d484 44:) 0

Date Reoei3ex: 0d4/ 4 40:45

Lab Sample ID: 570-67847-84

. atBM Sr lix

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualieB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	0155		0M6	mg/Kg	☆	08/17/21 15:02	08/25/21 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 4		01 - / 01	172 : 23 / 0613	172023 / 176 8	/

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualieB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		6M	mg/Kg	☆	08/21/21 08:18	08/27/21 11:01	1
9PO as Motor L il u ange	f D		6M	mg/Kg	☆	08/21/21 08:18	08/27/21 11:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 15		01 - / 01	1723 / 23 / 176 7	1723 : 23 / 11 6 /	/

ETroths Calscience RRC

# Client Sample Results

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

Job ID: 570-67217-1

Client Sample ID: S-5-R/

Date Cr Ileotex: 0d484 44:5

Date Reoei3ex: 0d4/ 44 40:45

Lab Sample ID: 570-67847-88

. atBM Sr lix

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	07)		0N1	mg/Kg	☆	08/17/21 15:02	08/26/21 0.:2.	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8:		01 - / 01	172: 2/ / 0613	17282/ 1565	/

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup - R2

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	/ 8		6N	mg/Kg	☆	08/21/21 08:18	08/27/21 15:43	1
WTP as . r tr BOil Ranf e	) d0		6N	mg/Kg	☆	08/21/21 08:18	08/27/21 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 39		01 - / 01	172/ 2/ / 1767	172: 2/ / 0649	/

Client Sample ID: S-7-R/

Date Cr Ileotex: 0d484 44:50

Date Reoei3ex: 0d4/ 44 40:45

Lab Sample ID: 570-67847-8/

. atBM Sr lix

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Gasoline (C4-C13)	f D		0N4	mg/Kg	☆	08/17/21 15:02	08/26/21 0.:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	03		01 - / 01	172: 2/ / 0613	17282/ 1564	/

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		5N	mg/Kg	☆	08/21/21 08:18	08/27/21 11:44	1
9PO as Motor L il u ange	f D		5N	mg/Kg	☆	08/21/21 08:18	08/27/21 11:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 33		01 - / 01	172/ 2/ / 1767	172: 2/ / 0644	/

Client Sample ID: S-40-R/

Date Cr Ileotex: 0d484 44:55

Date Reoei3ex: 0d4/ 44 40:45

Lab Sample ID: 570-67847-8)

. atBM Sr lix

. etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Gasoline (C4-C13)	f D		0N1	mg/Kg	☆	08/17/21 15:02	08/26/21 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7/		01 - / 01	172: 2/ / 0613	17282/ 1767	/

. etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		5N	mg/Kg	☆	08/21/21 08:18	08/27/21 12:06	1
9PO as Motor L il u ange	f D		5N	mg/Kg	☆	08/21/21 08:18	08/27/21 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	51		01 - / 01	172/ 2/ / 1767	172: 2/ / 3618	/

ETroths Calscience RRC

# Client Sample Results

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

Job ID: 570-67217-1

Client Sample ID: S-4815-R/

Lab Sample ID: 570-67847-85

Date Cr Ileotex: 0dd48d84 48:00

. atBM Sr lix

Date Reoei3ex: 0dd4/ d84 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Gasoline (C4-C13)	f D		1N3	mg/Kg	☆	08/17/21 15:02	08/25/21 18:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		01 - / 01			172: 23/ / 0613	172023/ / 704/	/

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		1.	mg/Kg	☆	08/21/21 08:18	08/27/21 12:27	1
WTP as . r tr BOil Ranf e	440		1.	mg/Kg	☆	08/21/21 08:18	08/27/21 12:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 9		01 - / 01			1723/ 23/ 176 7	1723: 23/ / 363:	/

Client Sample ID: S-815-S8

Lab Sample ID: 570-67847-86

Date Cr Ileotex: 0dd48d84 48:80

. atBM Sr lix

Date Reoei3ex: 0dd4/ d84 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	019		0N21	mg/Kg	☆	08/17/21 15:02	08/25/21 1.:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		01 - / 01			172: 23/ / 0613	172023/ / 561:	/

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	84		6N2	mg/Kg	☆	08/21/21 08:18	08/27/21 12:4.	1
WTP as . r tr BOil Ranf e	480		6N2	mg/Kg	☆	08/21/21 08:18	08/27/21 12:4.	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 33		01 - / 01			1723/ 23/ 176 7	1723: 23/ / 3645	/

Client Sample ID: S-5-S8

Lab Sample ID: 570-67847-87

Date Cr Ileotex: 0dd48d84 48:85

. atBM Sr lix

Date Reoei3ex: 0dd4/ d84 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	0185		0N2	mg/Kg	☆	08/17/21 15:02	08/25/21 1.:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	::		01 - / 01			172: 23/ / 0613	172023/ / 567	/

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	45		5N	mg/Kg	☆	08/21/21 08:18	08/27/21 13:11	1
WTP as . r tr BOil Ranf e	4) 0		5N	mg/Kg	☆	08/21/21 08:18	08/27/21 13:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 17		01 - / 01			1723/ 23/ 176 7	1723: 23/ / 96/	/

ETroths Calscience RRC



# Client Sample Results

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

Job ID: 570-67217-1

Client Sample ID: S-715-S8

Lab Sample ID: 570-67847-8d

Date Cr Ileotex: 0d484 48:/ 0

. atBM Sr lix

Date Reoei3ex: 0d4/ 48 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Gasoline (C4-C13)	f D		0N0	mg/Kg	☆	08/17/21 15:02	08/25/21 20:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	01		01 - / 01			172 : 2/ / 0613	17202/ 3169	/

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		5N	mg/Kg	☆	08/21/21 08:18	08/27/21 13:32	1
9PO as Motor L il u ange	f D		5N	mg/Kg	☆	08/21/21 08:18	08/27/21 13:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 30		01 - / 01			172/ 2/ / 176 7	172: 2/ / 903	/

Client Sample ID: S-40-S8

Lab Sample ID: 570-67847-89

Date Cr Ileotex: 0d484 48:/ 5

. atBM Sr lix

Date Reoei3ex: 0d4/ 48 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Hasr line VC) -C4/ (	0B4		0N1	mg/Kg	☆	08/17/21 15:02	08/25/21 20:4.	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		01 - / 01			172 : 2/ / 0613	17202/ 3165	/

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
WTP as Diesel Ranf e	80		6N	mg/Kg	☆	08/21/21 08:18	08/27/21 13:55	1
WTP as . r tr BOil Ranf e	) 9		6N	mg/Kg	☆	08/21/21 08:18	08/27/21 13:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 38		01 - / 01			172/ 2/ / 176 7	172: 2/ / 900	/

Client Sample ID: S-4815-S8

Lab Sample ID: 570-67847-/ 0

Date Cr Ileotex: 0d484 48:) 0

. atBM Sr lix

Date Reoei3ex: 0d4/ 48 40:45

## . etvr x: h N WTP-HM- hr BvGest - wr latile TetB leum TB xuots VHC(

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Gasoline (C4-C13)	f D		0N0	mg/Kg	☆	08/17/21 15:02	08/25/21 1. :32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		01 - / 01			172 : 2/ / 0613	17202/ / 503	/

## . etvr x: h N WTP-DM- hr BvGest - Semi-wr latile TetB leum TB xuots VHC( - Silioa Hel Cleanup

2 nalAte	Result	UualiqeB	RL	z nit	D	TBpaBx	2 nalAFex	Dil yao
9PO as Diesel u ange	f D		14	mg/Kg	☆	08/21/21 08:18	08/27/21 14:16	1
WTP as . r tr BOil Ranf e	7)		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)	/ 34		01 - / 01			172/ 2/ / 176 7	172: 2/ / 40 8	/

ETroths Calscience RRC

# 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**

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	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

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# Surrogate Summary

Client: Cardno, Inc

Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

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

Matrix: Solid

Prep Type: Total/NA

### 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

Eurofins Calscience LLC

# Surrogate Summary

Client: Cardno, Inc

Job ID: 570-67217-1

Project/Site: ExxonMobil ADC / 0314476040

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

**Matrix: Solid**

**Prep Type: Silica Gel Cleanup**

## Percent Surrogate Recovery (Acceptance Limits)

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

2101 e 2 n tai or li d

, tot de f @ : / SSoi E ob Qx D2 P0M#AA760A0

Job ID: 570-67947-4

## 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
3, T nHs nHb Cl Q A-24M	) D		0N5	. nfgm			0K9A94 4A:M	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		50 - 150				0/ 724721 14:38	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	
3, T nHs nHb Cl Q A-24M	9M0	4N6		. nfgm		8M	77 - 49K	
Surrogate	%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
3, T nHs nHb Cl Q A-24M	9M9	4N67		. nfgm		8M	77 - 49K	4	46
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	61		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
3, T nHs nHb Cl Q A-24M	) D		5N0	. nfgm			0K9594 0A:M	90
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58		50 - 150				0/ 725721 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	
3, T nHs nHb Cl Q A-24M	9M9	4N79		. nfgm		8M	77 - 49K	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	/ 0		50 - 150					

/ utofCH2 n1dCi dl LL2

# QC Sample Results

2101 e 2 n tai or li d

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Job ID: 570-67947-4

## 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
3, T nHs nHb Cl Q A-24M	9M9	4M6K		. nfgm		8M	77 - 49K	0	46
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	61		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
3, T nHs nHb Cl Q A-24M	) D		0M5	. nfgm			0K95M4 44:96	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150				0/ 725721 11:29	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
3, T nHs nHb Cl Q A-24M	) D		5M0	. nfgm			0K95M4 44:59	90
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		50 - 150				0/ 725721 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		
3, T nHs nHb Cl Q A-24M	9M9	4M89		. nfgm		8A	77 - 49K		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 6		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
3, T nHs nHb Cl Q A-24M	9M9	4M54		. nfgm		K7	77 - 49K	7	46
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	//		50 - 150						

/ utofCH2 n1Hb Cl dl LL2



# QC Sample Results

2101 e 2 n tai or li d

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Job ID: 570-67947-4

## 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
3, T nHs nHb Cl A-24M	) D		0M5	. nfgm			0K95P4 4K:M6	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 4		50 - 150				0/ 72521 1/ :39	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	
3, T nHs nHb Cl A-24M	9M9	9M0M		. nfgm		85	77 - 49K	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	6/		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
3, T nHs nHb Cl A-24M	9M9	9M9A		. nfgm		85	77 - 49K	4	46
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 8		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
3, T nHs nHb Cl A-24M	) D		0M5	. nfgm			0K96P4 04:AM	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 0		50 - 150				0/ 72921 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
3, T nHs nHb Cl A-24M	) D		5M	. nfgm			0K96P4 09:08	90
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		50 - 150				0/ 72921 02:06	20

/ utofCH2 n1dCi dl LL2

# QC Sample Results

2101 e 2 n tai or li d  
, tot de f @ : / SSoi E ob Qx D2 POM#AA760A0

Job ID: 570-67947-4

## 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
3, T nHs nHb Cl Q A-24M			9MM	4NAA		. nfgm		K7	77 - 49K
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 6		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

				Spike	LCSD	LCSD				%Rec.	RPD	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
3, T nHs nHb Cl Q A-24M				9MM	4N9A		. nfgm		K6	77 - 49K	4	46
				LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	62		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
3, T nHs nHb Cl Q A-24M	) D		5N	. nfgm			0K96P4 06:50	90
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		50 - 150				0/ 729721 09:50	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
3, T nHs nHb Cl Q A-24M	9M4	9N0A0		. nfgm		87	77 - 49K
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	60		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
3, T nHs nHb Cl Q A-24M	9MM	9N67		. nfgm		87	77 - 49K	4	46
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	60		50 - 150						

/ utofCH2 n1dCi dl LL2

# QC Sample Results

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Job ID: 570-67947-4

## 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
3, T nHDCH 1Rni ml	) D		5N	. mgm		0K9494 0K:4K	0K9694 47:45	4
3, T nHE oet OGRni ml	) D		5N	. mgm		0K9494 0K:4K	0K9694 47:45	4
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		50 - 150			0/ 72121 0/ :1/	0/ 72921 18:15	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	Limits	%Rec.
3, T nHE oet OGR 47-2 AA(	A00	A0AN5		. mgm		404	74 - 4MB	
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	Limits	%Rec.
3, T nHDCH 1Q 40-29K(	A00	A56N		. mgm		44A	76 - 496	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	116		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	Limits	%Rec.	RPD	Limit
3, T nHE oet OGR 47-2 AA(	A00	A07N		. mgm		409	74 - 4MB		4	90
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	Limits	%Rec.	RPD	Limit
3, T nHDCH 1Q 40-29K(	A00	A58N		. mgm		445	76 - 496		4	90
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)	114		50 - 150							

/ utofCH2 n1 dCi dl LL2

# QC Sample Results

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Job ID: 570-67947-4

## 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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
3, T nHDCH 1Q40-29K(	4500	4	50A	9989		. nfgm	F	466	M - 475
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	11/		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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3, T nHDCH 1Q40-29K(	4500	4	506	9M7K	4	. nfgm	F	4K9	M - 475	A	90
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	11/		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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
3, T nHE oet OQ47-2AA(	4900	4	54A	4895		. nfgm	F	4M8	74 - 47A
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	106		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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3, T nHE oet OQ47-2AA(	4900	4	54M	99MA	4	. nfgm	F	900	74 - 47A	45	90
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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 Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3, T nHDCH 1Rni ml	) D		5N0	. nfgm		0K9494 0K:94	0K9694 46:40	4
3, T nHE oet OGRni ml	) D		5N0	. nfgm		0K9494 0K:94	0K9694 46:40	4
Surrogate	MB %Recovery	MB Qualifier	Limits					
n-Octacosane (Surr)	114		50 - 150					
						Prepared	Analyzed	Dil Fac
						0/ 721721 0/ :21	0/ 729721 19:10	1

/ utofCH2n1dCi dl LL2

# QC Sample Results

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, tot d e p : / SSoi E ob Qx D2 POM#AA760A0

Job ID: 570-67947-4

## 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
3, T nHE oet OQ 47-2 AA(	A00	A0K5		. nfgm		409	74 - 4M8
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	106		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

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
3, T nHDC1 1Q 40-29K(			A00	ANB0		. nfgm		440	76 - 496		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	106		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

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
3, T nHE oet OQ 47-2 AA(			A00	A09N		. nfgm		404	74 - 4M8	4	90
Surrogate	%Recovery	LCSD	LCSD								
n-Octacosane (Surr)	113	Qualifier	Limits								

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
3, T nHDC1 1Q 40-29K(			A00	AA4NM		. nfgm		440	76 - 496	4	90
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	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		
3, T nHDCH 1Q 40-29K(	7K00	9	AMK	44860	A	. nfgm	F	8AM	M7 - 475		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	103		50 - 150								

/ utofCH2 n1 dCi dl LL2

# QC Sample Results

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Job ID: 570-67947-4

## 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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
3, T nHE oet OQ 47-2 AA(	A700		AA9	5K5K	A	. nfm	F	969	74 - 47A		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
n-Octacosane (Surr)	109		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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3, T nHDCH 1Q 40-29K(	7K00	9	AA0	84MK	A 9	. nfm	F	98K	74 - 475	97	90
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3, T nHE oet OQ 47-2 AA(	A700		AAM	587M	A	. nfm	F	9K7	74 - 47A	9	90
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	112		50 - 150								

/ utofCH2n1dCi dl LL2



# 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	

Eurofins Calscience LLC

# 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

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67847-4

**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
9otaljTM	1 rep	50A5			6MA5 .	5 g L	478066	02j47j84 45:04	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		850	5 g L	5 g L	473483	02j85j84 4A:40	MmS	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M7 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		40			473632	02j86j84 4V:37	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			6NV8 .	5 g L	478066	02j47j84 45:04	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		850	5 g L	5 g L	473483	02j85j84 4A:A3	MmS	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40MA .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		5			473632	02j86j84 80:02	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			5N67 .	5 g L	478066	02j47j84 45:04	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		850	5 g L	5 g L	473483	02j85j84 4A:57	MmS	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M4 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		400			473632	02j86j84 80:8V	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			2NVV .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47AV5V	02j85j84 04:0A	14R	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M6 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j86j84 80:50	M4W	SCL 4
Instrug ent ID: GC32										

Surofins Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67847-4

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
9otaljTM	1 rep	50A5			441807 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47AV5V	02j85j84 04:87	14R	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M2 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j86j84 84:48	M4W	SCL 4
Instrug ent ID: GC32										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
9otaljTM	1 rep	50A5			71056 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47AV5V	02j85j84 04:50	14R	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M8 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j86j84 84:AA	M4W	SCL 4
Instrug ent ID: GC32										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
9otaljTM	1 rep	50A5			481744 .	5 g L	478066	02j47j84 45:04	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		80	5 g L	5 g L	4733A0	02j86j84 48:36	MmS	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC	RM		40M3 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	RM	4			473632	02j87j84 46:05	M4W	SCL 4
Instrug ent ID: GC32										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
9otaljTM	1 rep	50A5			6188A .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	4733A0	02j86j84 45:A6	MmS	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M0 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j86j84 88:47	M4W	SCL 4
Instrug ent ID: GC32										

Surofins Calscience LLC



# Lab Chronicle

Client: Cardno, Inc  
 Project/ Site: SEONX obil MDC j 0A43376030

Job ID: 570-67847-4

**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
9otaljTM	1 rep	50A5			44M38 .	5 g L	478066	02j47j84 45:04	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		50	5 g L	5 g L	473AVA	02j86j84 0V:55	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC	RM		40M8 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	RM	4			473632	02j87j84 46:87	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			48M56 .	5 g L	478066	02j47j84 45:04	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		50	5 g L	5 g L	473AVA	02j86j84 40:80	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC	RM		40M5 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	RM	4			473632	02j87j84 46:32	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			6M63 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47AV5V	02j85j84 08:43	14R	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M0 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 00:05	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			7M06 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47347A	02j85j84 45:47	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M5 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 00:86	M4W	SCL 4
Instrug ent ID: GC32										

Surofins Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
 1 roctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67847-4

**Client Sample ID: S-7.5-S4**

**Lab Sample ID: 570-67217-13**

**Date Collected: 08/12/21 10:15**

**Matrix: Solid**

**Date Received: 08/13/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
9otaljTM	1 rep	50A5			61252 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47AV5V	02j83j84 80:88	14R	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40N5 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 00:37	M4W	SCL 4
Instrug ent ID: GC32										

**Client Sample ID: S-10-S4**

**Lab Sample ID: 570-67217-14**

**Date Collected: 08/12/21 10:23**

**Matrix: Solid**

**Date Received: 08/13/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
9otaljTM	1 rep	50A5			45N72 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47347A	02j85j84 45:38	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC	RM		40N5 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	RM	4			473632	02j87j84 47:40	M4W	SCL 4
Instrug ent ID: GC32										

**Client Sample ID: S-12.5-S4**

**Lab Sample ID: 570-67217-15**

**Date Collected: 08/12/21 10:25**

**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
9otaljTM	1 rep	50A5			3N54 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	473AAA	02j85j84 4V:A0	14R	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC	RM		40N6 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	RM	4			473632	02j87j84 47:A8	M4W	SCL 4
Instrug ent ID: GC32										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
9otaljTM	1 rep	50A5			7N43 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47347A	02j85j84 46:AA	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M4 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 04:5A	M4W	SCL 4
Instrug ent ID: GC32										

Surofins Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
 1 roctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67847-4

**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
9otaljTM	1 rep	50A5			40N58 .	5 g L	478066	02j47j84 45:04	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		400	5 g L	5 g L	4733A0	02j86j84 4A:AV	MmS	SCL 8
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M2 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		8			473632	02j87j84 08:43	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			43N48 .	5 g L	478066	02j47j84 45:04	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		50	5 g L	5 g L	473AVA	02j86j84 40:35	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M5 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 08:A6	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			6N787 .	5 g L	478066	02j47j84 45:04	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		50	5 g L	5 g L	473AVA	02j86j84 44:44	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M4 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		5			473632	02j87j84 08:57	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			7N05 .	5 g L	478066	02j47j84 45:04	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		400	5 g L	5 g L	473AVA	02j86j84 44:A7	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC	RM		40M2 .	40 g L	47AA47	02j84j84 02:84	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	RM	4			473632	02j87j84 47:5A	M4W	SCL 4
Instrug ent ID: GC32										

Surofins Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67847-4

**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
9otaljTM	1 rep	50A5			61363 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47347A	02j85j84 42:46	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M5 .	40 g L	47AA46	02j84j84 02:42	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 44:04	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			43N43 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	473AVA	02j86j84 0V:8V	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC	RM		40M8 .	40 g L	47AA46	02j84j84 02:42	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	RM	4			473632	02j87j84 45:3A	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			40M84 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	473AVA	02j86j84 0V:03	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M2 .	40 g L	47AA46	02j84j84 02:42	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 44:33	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			4AN74 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	473AVA	02j86j84 02:A2	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M4 .	40 g L	47AA46	02j84j84 02:42	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 48:06	M4W	SCL 4
Instrug ent ID: GC32										

Surofins Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67847-4

**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
9otaljTM	1 rep	50A5			1088 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47347A	02j85j84 42:34	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M7 .	40 g L	47AA46	02j84j84 02:42	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 48:87	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			7M46 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47347A	02j85j84 4V:07	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40MA .	40 g L	47AA46	02j84j84 02:42	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 48:3V	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			48M26 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47347A	02j85j84 4V:52	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40MV .	40 g L	47AA46	02j84j84 02:42	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 4A:44	M4W	SCL 4
Instrug ent ID: GC32										

**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
9otaljTM	1 rep	50A5			7M5A .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47347A	02j85j84 80:8A	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M3 .	40 g L	47AA46	02j84j84 02:42	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 4A:AB	M4W	SCL 4
Instrug ent ID: GC32										

Surofins Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67847-4

**Client Sample ID: S-10-S2**

**Lab Sample ID: 570-67217-29**

**Date Collected: 08/12/21 12:35**

**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
9otaljTM	1 rep	50A5			7M87 .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47347A	02j85j84 80:3V	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M2 .	40 g L	47AA46	02j84j84 02:42	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 4A:55	M4W	SCL 4
Instrug ent ID: GC32										

**Client Sample ID: S-12.5-S2**

**Lab Sample ID: 570-67217-30**

**Date Collected: 08/12/21 12:40**

**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
9otaljTM	1 rep	50A5			6M4A .	5 .	478067	02j47j84 45:08	SDZ3	SCL 8
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47347A	02j85j84 4V:A8	MmS	SCL 8
Instrug ent ID: GC88										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M8 .	40 g L	47AA46	02j84j84 02:42	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			473632	02j87j84 43:46	M4W	SCL 4
Instrug ent ID: GC32										

## Laboratory References:

SCL 4 = Surofins Calscience LLC Lincoln, 7330 Lincoln Way, Garden Grove, CMV8234, 9SL (743)2V5-53V3

SCL 8 = Surofins Calscience LLC Lag pson, 7335 Lag pson Mve, Garden Grove, CMV8234, 9SL (743)2V5-53V3



Accreditation/Certification Summary

Client: Cardno, Inc  
1 roPctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67847-4

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	/ tate	C946-42	40-44-84

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# Method Summary

2 10 e 2 ntai or li d

, tot de p @ : / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67947-4

Method	Method Description	Protocol	Laboratory
3 N W T-HS	3 oteChl we- sohe3 , l do1 Vu , toaVdevrh12(	3 N W T	/ 2) 9
3 N W T-DS	3 oteChl we- j l u Gsohe3 , l do1 Vu , toaVdevrh12(	3 N W T	/ 2) 4
M502 j H2	8 tinwoi d / Sanderi	j N LA6	/ 2) 4
50M5	2 bw a j Uue u , Vtyl ni a Wng	j N LA6	/ 2) 9

## Protocol References:

3 N W T p 3 oteChl weVden1, l do1 Vu TLatodntboi

j N LA6 p =VweEl eGaw" ot / FnVneCy j o1a Nnwe r, GUWdh 12 G u On1El eGawr WGa / aGoi r 3 oFl u bl t 4vL6 xi a lew8 gané w

## Laboratory References:

/ 2) 4 p / VtofCw2n1wdCi dl ))2 )Cdo1 r 7AA0 )Cdo1 N nU r Hntal i HtoFl r 2x v9LA4r W ) n74A(Lv5-5AvA

/ 2) 9 p / VtofCw2n1wdCi dl ))2 )nu gwoi r 7AA5 )nu gwoi xFl r Hntal i HtoFl r 2x v9LA4r W ) n74A(Lv5-5AvA

/ VtofCw2n1wdCi dl ))2

**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)

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---

**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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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

Jennifer Sediachek

LABORATORY CLIENT

Cardno

309 South Cloverdale Street Unit A13

Seattle, WA 98108

206-510-5855

N/A

robert.thompson@cardno.com

48 HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

☐ JWQCB 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@cardno.com

All units in ug/L

Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner@cardno.com

LAB USE ONLY

SAMPLE ID

Field Point Name

SAMPLING DATE

TIME

MAT. RIX

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CHAIN OF CUSTODY RECORD

DATE 8/12/2021

PAGE 1 OF 2

Temp

P O 0314476040 Agreement# A2604415

LAB USE ONLY

COOLER RECEIPT

PROJECT CONTACT

Robert Thompson

SAMPLER(S) Paul Prevou, John Considine

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REQUESTED ANALYSIS



570-67217 Chain of Custody

CONTAINER TYPE

2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

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2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

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2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar

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8/12/2021 4 15 00 PM

8/13/21 10:15

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3-7/33, 3-9/30 JEL

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3-7/33, 3-9/30 JEL

3-7/33, 3-9/30 JEL





7440 LINCOLN WAY  
Calcsience 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 Sedlachek

LABORATORY CLIENT		GLOBAL ID # COELT LOG CODE		P O 0314476040 Agreement# A2604415	
Cardno		PROJECT CONTACT		LAB USE ONLY	
309 South Cloverdale Street Unit A13		Robert Thompson		COOLER RECEIPT	
CITY Seattle, WA 98108		SAMPLER(S) Paul Prevou, John Considine		T 0000	
TEC 206-510-5855				T 0000	
TURNAROUND TIME					
<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 / /					
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@cardno.com					
All units in ug/L					
Report to: laina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner@cardno.com					
LAB USE ONLY		NO. OF CONT		CONTAINER TYPE	
SAMPLE ID		FIELD POINT NAME		DATE	
1 S-25-A6		A6		8/12/2021 0713	
2 S-5-A6		A6		8/12/2021 0735	
3 S-7.5-A6		A6		8/12/2021 0743	
4 S-10-A6		A6		8/12/2021 0745	
5 S-12.5-A6		A6		8/12/2021 0750	
6 S-25-B9		B9		8/12/2021 0905	
7 S-5-B9		B9		8/12/2021 0910	
8 S-7.5-B9		B9		8/12/2021 0915	
9 S-10-B9		B9		8/12/2021 0920	
10 S-12.5-B9		B9		8/12/2021 1015	
11 S-25-S4		S4		8/12/2021 1025	
12 S-5-S4		S4		8/12/2021 1015	
13 S-7.5-S4		S4		8/12/2021 1015	
14 S-10-S4		S4		8/12/2021 1025	
15 S-12.5-S4		S4		8/12/2021 1025	
16 S-25-R5		R5		8/12/2021 1025	
17 S-5-R5		R5		8/12/2021 1100	
18 S-7.5-R5		R5		8/12/2021 1100	
19 S-10-R5		R5		8/12/2021 1105	
20 S-12.5-R5		R5		8/12/2021 1105	
21 S-25-DUP		DUP		8/12/2021 1110	
22 Trip-Blank		Trip-Blank		8/12/2021	
23 EGB+		EGB+		8/12/2021	
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Paul Prevou		FedEx		8/12/2021 4 15 00 PM	
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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 # 156297-40347830-01502/22

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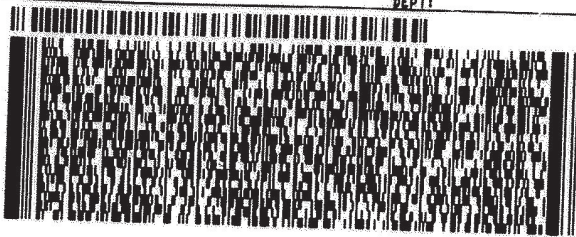
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**7440 LINCOLN WAY**

**GARDEN GROVE CA 92841**

(714) 896-6484  
INVT  
PO1

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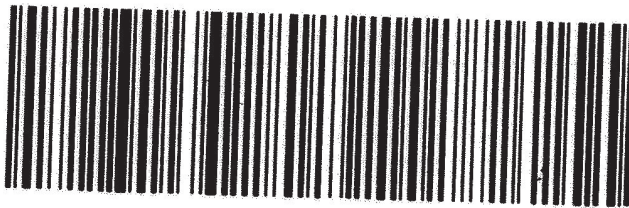
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**FRI - 13 AUG 10:30A**  
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**CA-US SNA**



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## Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67217-1

Login Number: 67217

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Patel, Jayesh

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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

## 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.
□	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  
j ro/ectSite: x MonA obil 3DC S04P2276020

Job ID: 570-67521-P

**Job ID: 570-67542-1**

**Laboratory: Eurofins Calscience LLC**

## Narrative

### Job Narrative 570-67542-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/31/2021 at 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and were properly stored, properly preserved and on ice. The temperature of the cooler at receipt was 4.5°C.

#### Receipt Exceptions

One of the 10 vials for the 10 log in( sample gas received broken: E-P1.5-wf 570-67521-PWH

#### GC VOA

A method NG Tj k-9 M Ins) 100% of sample volume was available to perform a matrix spike. A matrix spike duplicate was associated with analytical batch 570-P72444. The laboratory control sample 10CEH was performed in duplicate to provide precision data for this batch.

No additional analytical or R) alitu iss) es were noted, other than those described above or in the Definitions 9 lossaru pa( e.

#### GC Semi VOA

A method NG Tj k-DM The 10 log in( sample gas diluted due to the natural sample matrix E-5-j P 570-67521-1H elevated reporting limits 10BLs are provided.

A method NG Tj k-DM The matrix spike duplicate 10AEDH recoveries for preparation batch 570-P72046 and analytical batch 570-P75205 were outside control limits. Example matrix interference is suspected because the associated laboratory control sample 10CEH recovery was within acceptance limits.

No additional analytical or R) alitu iss) es were noted, other than those described above or in the Definitions 9 lossaru pa( e.

#### General Chemistry

No analytical or R) alitu iss) es were noted, other than those described in the Definitions 9 lossaru pa( e.

#### Organic Prep

No analytical or R) alitu iss) es were noted, other than those described in the Definitions 9 lossaru pa( e.

#### VOA Prep

No analytical or R) alitu iss) es were noted, other than those described in the Definitions 9 lossaru pa( e.

# Detection Summary

1 0 en 1 t a eodle,  
cæp, rj/ lri : SEEex oblQMD1 j 0A29976090

Job ID: 570-67594-2

## Client Sample ID: S-2.5-P1

## Lab Sample ID: 570-67542-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t Hbæi G 9-1 2A(	44		9).	mgjKg	40	3	NW☼ T-s E	☼rt QNM
☼ T t HDli H QOt egi	4R0		5R	mgjKg	20	3	NW☼ T-DE	/ IQt si C
☼ T t Hx orpa8 IQOt egi	R60		5R	mgjKg	20	3	NW☼ T-DE	1 Ct eup
								1 Ct eup

## Client Sample ID: S-5-P1

## Lab Sample ID: 570-67542-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t Hbæi G 9-1 2A(	290		9)A	mgjKg	40	3	NW☼ T-s E	☼rt QNM
☼ T t HDli H QOt egi	4. 0		A0	mgjKg	5	3	NW☼ T-DE	/ IQt si C
☼ T t Hx orpa8 IQOt egi	7. 0		A0	mgjKg	5	3	NW☼ T-DE	1 Ct eup
								1 Ct eup

## Client Sample ID: S-7.5-P1

## Lab Sample ID: 570-67542-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hx orpa8 IQOt egi	29		22	mgjKg	2	3	NW☼ T-DE	/ IQt si C
								1 Ct eup

## Client Sample ID: S-10-P1

## Lab Sample ID: 570-67542-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t HDli H QOt egi	960		5R	mgjKg	5	3	NW☼ T-DE	/ IQt si C
☼ T t Hx orpa8 IQOt egi	. 90		5R	mgjKg	5	3	NW☼ T-DE	1 Ct eup
								1 Ct eup

## Client Sample ID: S-12.5-P1

## Lab Sample ID: 570-67542-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hx orpa8 IQOt egi	24		24	mgjKg	2	3	NW☼ T-DE	/ IQt si C
								1 Ct eup

## Client Sample ID: S-2.5-P5

## Lab Sample ID: 570-67542-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t Hbæi G 9-1 2A(	6A		9)A	mgjKg	40	3	NW☼ T-s E	☼rt QNM
☼ T t HDli H QOt egi	400		4R	mgjKg	5	3	NW☼ T-DE	/ IQt si C
☼ T t Hx orpa8 IQOt egi	A60		4R	mgjKg	5	3	NW☼ T-DE	1 Ct eup
								1 Ct eup

## Client Sample ID: S-5-P5

## Lab Sample ID: 570-67542-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t Hbæi G 9-1 2A(	4500		220	mgjKg	500	3	NW☼ T-s E	☼rt QNM
☼ T t HDli H QOt egi	A700		A4	mgjKg	5	3	NW☼ T-DE	/ IQt si C
☼ T t Hx orpa8 IQOt egi	450		A4	mgjKg	5	3	NW☼ T-DE	1 Ct eup
								1 Ct eup

## Client Sample ID: S-7.5-P5

## Lab Sample ID: 570-67542-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t Hbæi G 9-1 2A(	4A0		65	mgjKg	450	3	NW☼ T-s E	☼rt QNM

☼hHDI ni , doe / ummt ay roi Heonle, Qri æ r lo, hi ml, t Qi Hæa Hu(

SuæfleH1 t Q| li e, i LL1

# Detection Summary

1 0 en 1 t a eodle,  
c æ P, rj/ lri : SEEex oblQMD1 j 0A29976090

Job ID: 570-67594-2

## 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
☼ T t HDli H CQt egi	4R		6)9	mgjKg	2	3	NW☼ T-DE	/ IQt si C 1 Ct eup
☼ T t Hx orba8 ICQt egi	490		6)9	mgjKg	2	3	NW☼ T-DE	/ IQt si C 1 Ct eup

## Client Sample ID: S-10-P5

## Lab Sample ID: 570-67542-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	7R0		2A0	mgjKg	500	3	NW☼ T-s E	☼rt QNM
☼ T t HDli H CQt egi	2R0		6)7	mgjKg	2	3	NW☼ T-DE	/ IQt si C 1 Ct eup
☼ T t Hx orba8 ICQt egi	460		6)7	mgjKg	2	3	NW☼ T-DE	/ IQt si C 1 Ct eup

## Client Sample ID: S-12.5-P5

## Lab Sample ID: 570-67542-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	2)0		0)45	mgjKg	2	3	NW☼ T-s E	☼rt QNM
☼ T t HDli H CQt egi	20		6)9	mgjKg	2	3	NW☼ T-DE	/ IQt si C 1 Ct eup
☼ T t Hx orba8 ICQt egi	2A0		6)9	mgjKg	2	3	NW☼ T-DE	/ IQt si C 1 Ct eup

## Client Sample ID: S-2.5-P7

## Lab Sample ID: 570-67542-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	220		9)9	mgjKg	40	3	NW☼ T-s E	☼rt QNM
☼ T t HDli H CQt egi	4. 00		4.	mgjKg	5	3	NW☼ T-DE	/ IQt si C 1 Ct eup
☼ T t Hx orba8 ICQt egi	2500		4.	mgjKg	5	3	NW☼ T-DE	/ IQt si C 1 Ct eup

## Client Sample ID: S-5-P7

## Lab Sample ID: 570-67542-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	. 70		62	mgjKg	450	3	NW☼ T-s E	☼rt QNM
☼ T t HDli H CQt egi	9A00		A4	mgjKg	5	3	NW☼ T-DE	/ IQt si C 1 Ct eup
☼ T t Hx orba8 ICQt egi	960		A4	mgjKg	5	3	NW☼ T-DE	/ IQt si C 1 Ct eup

## Client Sample ID: S-7.5-P7

## Lab Sample ID: 570-67542-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	2000		75	mgjKg	450	3	NW☼ T-s E	☼rt QNM
☼ T t HDli H CQt egi	A700		A5	mgjKg	5	3	NW☼ T-DE	/ IQt si C 1 Ct eup
☼ T t Hx orba8 ICQt egi	400		A5	mgjKg	5	3	NW☼ T-DE	/ IQt si C 1 Ct eup

## Client Sample ID: S-10-P7

## Lab Sample ID: 570-67542-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	460		2A0	mgjKg	450	3	NW☼ T-s E	☼rt QNM
☼ T t HDli H CQt egi	. A0		R)7	mgjKg	2	3	NW☼ T-DE	/ IQt si C 1 Ct eup

☼hLDi ri , doe / ummt ay roi Heonle, Qri a r lo, hi ml, t Qi Hsa HuQ)

SuæfleH1 t Q li e, i LL1



# Detection Summary

1 0 en 1 t a eodle,  
c a P, rj/ lri : SEEoex oblQMD1 j 0A29976090

Job ID: 570-67594-2

## Client Sample ID: S-10-P7 (Continued)

## Lab Sample ID: 570-67542-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hx orpa8 lQot egi	A20		R7	mgjKg	2	3	NW☼ T-DE	/ lQ t si C 1 Ct eup

## Client Sample ID: S-12.5-P7

## Lab Sample ID: 570-67542-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	A)0		2)R	mgjKg	2	3	NW☼ T-s E	☼ort QNM
☼ T t HDli H Qot egi	2700		47	mgjKg	2	3	NW☼ T-DE	/ lQ t si C 1 Ct eup
☼ T t Hx orpa8 lQot egi	9000		47	mgjKg	2	3	NW☼ T-DE	/ lQ t si C 1 Ct eup

## Client Sample ID: S-2.5-O8

## Lab Sample ID: 570-67542-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	9200		200	mgjKg	500	3	NW☼ T-s E	☼ort QNM
☼ T t HDli H Qot egi	25000		200	mgjKg	20	3	NW☼ T-DE	/ lQ t si C 1 Ct eup
☼ T t Hx orpa8 lQot egi	4R0		200	mgjKg	20	3	NW☼ T-DE	/ lQ t si C 1 Ct eup

## Client Sample ID: S-5-O8

## Lab Sample ID: 570-67542-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	. 40		. 6	mgjKg	500	3	NW☼ T-s E	☼ort QNM
☼ T t HDli H Qot egi	95000		250	mgjKg	20	3	NW☼ T-DE	/ lQ t si C 1 Ct eup
☼ T t Hx orpa8 lQot egi	2500		250	mgjKg	20	3	NW☼ T-DE	/ lQ t si C 1 Ct eup

## Client Sample ID: S-10-O8

## Lab Sample ID: 570-67542-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	2500		460	mgjKg	500	3	NW☼ T-s E	☼ort QNM
☼ T t HDli H Qot egi	4R00		R6	mgjKg	2	3	NW☼ T-DE	/ lQ t si C 1 Ct eup
☼ T t Hx orpa8 lQot egi	2. 0		R6	mgjKg	2	3	NW☼ T-DE	/ lQ t si C 1 Ct eup

## Client Sample ID: S-12.5-O8

## Lab Sample ID: 570-67542-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T t Hs t HbQei G 9-1 2A(	. )A		2)6	mgjKg	2	3	NW☼ T-s E	☼ort QNM
☼ T t HDli H Qot egi	40		2R	mgjKg	2	3	NW☼ T-DE	/ lQ t si C 1 Ct eup
☼ T t Hx orpa8 lQot egi	250		2R	mgjKg	2	3	NW☼ T-DE	/ lQ t si C 1 Ct eup

☼hLDi ri , doe / ummt ay roi Heonle, Qri a r lo, hi ml, t Qi Haa HuQ

SuæfleH1 t Q li e, i LL1

# Client Sample Results

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

Job ID: 570-67542-1

Client Sample ID: S-1M-r .

Lab Sample ID: 570-67521-

Date Cclle/ te8: 03v 6v. . . :20

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0.: 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	11		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	1g0		59	mg/Kg	☆	08/24/21 16:54	08/31/21 02:37	10
Pr H as x ctcoOil Ranf e	g60		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-r .

Lab Sample ID: 570-67521-

Date Cclle/ te8: 03v 6v. . . :25

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0.: 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	. 20		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	130		30	mg/Kg	☆	08/24/21 16:54	08/31/21 11:03	5
Pr H as x ctcoOil Ranf e	730		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-7M-r .

Lab Sample ID: 570-67521-

Date Cclle/ te8: 03v 6v. . . :50

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0.: 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
TPH as Diesel Range	ND		11	mg/Kg	☆	08/24/21 16:54	08/31/21 03:21	1
Pr H as x ctcoOil Ranf e	. 2		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

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67542-1

Client Sample ID: S-. 0-r .

Date Cclle/ te8: 03v 6v. . . :55

Date Re/ eihe8: 03v 7v. . 0.: 0

Lab Sample ID: 570-67521-2

x attd: Scli8

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	260		59	mg/Kg	☆	08/24/21 16:54	08/31/21 03:44	5
Pr H as x ctcoOil Ranf e	320		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-. 1M-r .

Date Cclle/ te8: 03v 6v. . 1:00

Date Re/ eihe8: 03v 7v. . 0.: 0

Lab Sample ID: 570-67521-5

x attd: Scli8

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
TPH as Diesel Range	ND		12	mg/Kg	☆	08/24/21 16:54	08/31/21 04:06	1
Pr H as x ctcoOil Ranf e	. 1		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-1M-r 5

Date Cclle/ te8: 03v 6v. . 1:15

Date Re/ eihe8: 03v 7v. . 0.: 0

Lab Sample ID: 570-67521-6

x attd: Scli8

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	64		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	100		29	mg/Kg	☆	08/24/21 16:54	08/31/21 04:27	5
Pr H as x ctcoOil Ranf e	460		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-r 5

Lab Sample ID: 570-67521-7

Date Cclle/ te8: 03v 6v. . 1:40

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0: 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	1500		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	4700		32	mg/Kg	☆	08/24/21 16:54	08/31/21 11:25	5
Pr H as x ctcoOil Ranf e	150		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-7M-r 5

Lab Sample ID: 570-67521-3

Date Cclle/ te8: 03v 6v. . 1:45

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0: 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	140		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	1g		6.4	mg/Kg	☆	08/24/21 16:54	08/31/21 05:12	1
Pr H as x ctcoOil Ranf e	120		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-. 0-r 5

Lab Sample ID: 570-67521-g

Date Cclle/ te8: 03v 6v. . 1:20

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0: 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	7g0		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	. g0		6.7	mg/Kg	☆	08/24/21 16:54	08/31/21 05:34	1
Pr H as x ctcoOil Ranf e	160		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-1M-r 5

Lab Sample ID: 570-67521-. 0

Date Cclle/ te8: 03v 6v. . 1:25

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0:. 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	. M		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	. 0		6.4	mg/Kg	☆	08/24/21 16:54	08/31/21 05:55	1
Pr H as x ctcoOil Ranf e	. 40		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-1M-r 7

Lab Sample ID: 570-67521-. .

Date Cclle/ te8: 03v 6v. . 4:05

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0:. 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	. . 0		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	1300		28	mg/Kg	☆	08/24/21 16:54	08/31/21 07:01	5
Pr H as x ctcoOil Ranf e	. 500		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-r 7

Lab Sample ID: 570-67521-. 1

Date Cclle/ te8: 03v 6v. . 4:. 0

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0:. 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	370		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepacoe8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	2400		32	mg/Kg	☆	08/24/21 16:54	08/31/21 07:23	5
Pr H as x ctcoOil Ranf e	260		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-7M-r 7

Lab Sample ID: 570-67521-. 4

Date Cclle/ te8: 03v 6v. . 4:. 5

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0:. 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	. 000		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	4700		35	mg/Kg	☆	08/24/21 16:54	08/31/21 11:47	5
Pr H as x ctcoOil Ranf e	100		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-. 0-r 7

Lab Sample ID: 570-67521-. 2

Date Cclle/ te8: 03v 6v. . 4:10

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0:. 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	160		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	340		9.7	mg/Kg	☆	08/24/21 16:57	08/31/21 08:08	1
Pr H as x ctcoOil Ranf e	4. 0		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-. 1M-r 7

Lab Sample ID: 570-67521-. 5

Date Cclle/ te8: 03v 6v. . 4:15

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0:. 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	4M		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	. 700		27	mg/Kg	☆	08/24/21 16:57	08/31/21 08:30	1
Pr H as x ctcoOil Ranf e	2000		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

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# Client Sample Results

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

Job ID: 570-67542-1

Client Sample ID: S-1M-O3

Lab Sample ID: 570-67521-. 6

Date Cclle/ te8: 03v 6v. . 4:50

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0:. 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	2. 00		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	. 5000		100	mg/Kg	☆	08/24/21 16:57	08/31/21 12:10	10
Pr H as x ctcoOil Ranf e	1g0		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-O3

Lab Sample ID: 570-67521-. 7

Date Cclle/ te8: 03v 6v. . 4:55

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0:. 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	310		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	25000		150	mg/Kg	☆	08/24/21 16:57	08/31/21 12:32	10
Pr H as x ctcoOil Ranf e	. 500		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-. 0-O3

Lab Sample ID: 570-67521-. 3

Date Cclle/ te8: 03v 6v. . 2:00

x attd: Scli8

Date Re/ eihe8: 03v 7v. . 0:. 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	. 500		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioeo	RL	z nit	D	r oepace8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	1g00		9.6	mg/Kg	☆	08/24/21 16:57	08/31/21 09:36	1
Pr H as x ctcoOil Ranf e	. 30		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-. 1M-O3

Lab Sample ID: 570-67521-. g

Date Cclle/ te8: 03v 6vl. . 2:05

x attd: Scli8

Date Re/ eihe8: 03v 7vl. . 0:. 0

## x etNc8: WT Pr H-Gd - WcdNwest - Vclatile r etocleum r oc8u/ ts (GC)

9 nalAte	Result	Uualioo	RL	z nit	D	r oepao8	9 nalAFe8	Dil ya/
Pr H as Gasline (C2-C. 4)	3M		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

## x etNc8: WT Pr H-Dd - WcdNwest - Semi-Vclatile r etocleum r oc8u/ ts (GC) - Sili/ a Gel Cleanup

9 nalAte	Result	Uualioo	RL	z nit	D	r oepao8	9 nalAFe8	Dil ya/
Pr H as Diesel Ranf e	10		19	mg/Kg	☆	08/24/21 16:57	08/31/21 09:57	1
Pr H as x ctcoOil Ranf e	. 50		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 / 0318876080

Job ID: 570-67584-1

## 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)
570-67584-1	S-45-P1	67
570-67584-4	S-5-P1	77
570-67584-3	S-75-P1	21
570-67584-8	S-10-P1	76
570-67584-5	S-145-P1	58
570-67584-6	S-45-P5	63
570-67584-7	S-5-P5	148
570-67584-2	S-75-P5	. 0
570-67584-1	S-10-P5	. 4
570-67584-10	S-145-P5	27
570-67584-11	S-45-P7	74
570-67584-14	S-5-P7	67
570-67584-13	S-75-P7	76
570-67584-18	S-10-P7	66
570-67584-15	S-145-P7	73
570-67584-16	S-45-B2	183
570-67584-17	S-5-B2	118
570-67584-12	S-10-B2	20
570-67584-1	S-145-B2	54
LCS 570-178333/8	Lab Control Sample	. 2
LCSD 570-178333/5	Lab Control Sample Dup	27
Mh 570-178333/6	Metkod hlanF	28
Mh 570-178333/7	Metkod hlanF	21
<b>Surrogate Legend</b>		
h=h f 8-hromoduroben(ene )Surrs		

## 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)
570-67584-1	S-45-P1	10.
570-67584-1 MS	S-45-P1	116
570-67584-1 MS	S-45-P1	115
570-67584-1 MSD	S-45-P1	114
570-67584-1 MSD	S-45-P1	107
570-67584-4	S-5-P1	115
570-67584-3	S-75-P1	115
570-67584-8	S-10-P1	118
570-67584-5	S-145-P1	118
570-67584-6	S-45-P5	102
570-67584-7	S-5-P5	148
570-67584-2	S-75-P5	10.
570-67584-1	S-10-P5	. 3
570-67584-10	S-145-P5	107
570-67584-11	S-45-P7	134
570-67584-14	S-5-P7	. 4
570-67584-13	S-75-P7	11.

# Surrogate Summary

Client: Cardno, Inc

Job ID: 570-67584-1

Project/Site: ExxonMobil ADC / 0318876080

**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)
570-67584-18	S-10-P7	143
570-67584-15	S-145-P7	11
570-67584-16	S-45-B2	145
570-67584-17	S-5-B2	141
570-67584-12	S-10-B2	116
570-67584-1	S-145-B2	23
LCS 570-178036/4-A	Lab Control Sample	144
LCS 570-178036/6-A	Lab Control Sample	102
LCSD 570-178036/3-A	Lab Control Sample Dup	144
LCSD 570-178036/7-A	Lab Control Sample Dup	116
Mh 570-178036/1-A	Metkod hlanF	118

### Surrogate Legend

BTCSN f n-BctacoQane )Surs

# QC Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex oblQMD1 j 0A29976090

Job ID: 570-67594-2

## 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
3c. t mg t nœi K 9-1 2A	8 D		0 75	HsjRs			0N45j42 2N A6	2
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150				08/75/71 182 3	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
3c. t mg t nœi K 9-1 2A	8 D		5 0	HsjRs			0N45j42 2G 00	40
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150				08/75/71 16 20	70

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
3c. t mg t nœi K 9-1 2A	4 24	4 00A		HsjRs		G	77 - 24N
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	68		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
3c. t mg t nœi K 9-1 2A	4 24	4 049		HsjRs		G	77 - 24N	2	26
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	89		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
3c. t mDli ni Q t esi	8 D		5 0	HsjRs		0N49j42 26:5A	0N40j42 4A:2G	2
3c. t mx orpa) IQ t esi	8 D		5 0	HsjRs		0N49j42 26:5A	0N40j42 4A:2G	2
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		50 - 150			08/74/71 13 25	08/ 0/71 7: 216	1

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# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1 j 0A29976090

Job ID: 570-67594-2

## 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	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
3c. t mDli ni Q1 20-14N			900	966		HsjRs		249	76 - 246		
Surrogate		LCS	LCS								
		%Recovery	Qualifier								
n-Octacosane (Surr)		177		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

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
3c. t mx orpa) IQ1 27-199			900	964		HsjRs		226	72 - 2AG		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	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

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
3c. t mDli ni Q1 20-14N			900	966		HsjRs		245	76 - 246	0	40
Surrogate	%Recovery	LCSD	Limits								
n-Octacosane (Surr)	177		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	RPD Limit
3c. t mx orpa) IQ1 27-199			900	996		HsjRs		224	72 - 2AG	A	40
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)		113		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		
3c. t mDli ni Q1 20-14N	570		972	7NA		HsjRs	0	N7	A7 - 275		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	113		50 - 150								

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# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1 j 0A29976090

Job ID: 570-67594-2

## 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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
3c. t mx orpa) IQM 27-1 99	2400		974	2762		HsjRs	o	22A	72 - 279		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
n-Octacosane (Surr)	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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3c. t mDli ni QM 20-1 4N	570		96G	2275		HsjRs	o	24G	A7 - 275	2N	40
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	117		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

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
3c. t mx orpa) IQM 27-1 99	2400		970	2GN		HsjRs	o	264	72 - 279	24	40
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	109		50 - 150								

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# 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	

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# 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

Eurofins Calscience LLC

## 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-R1**

**Lab Sample ID: 570-675M2-1**

**Date Collecte8: 0/ 316321 11:M0**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			6.175 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	174333	08/25/21 22:18	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175405	08/31/21 02:37	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-5-R1**

**Lab Sample ID: 570-675M2-2**

**Date Collecte8: 0/ 316321 11:M5**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			7.217 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	174333	08/25/21 22:41	P1R	ECL 2
		Instrument ID: GC57								
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		5			175405	08/31/21 11:03	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-7.5-R1**

**Lab Sample ID: 570-675M2-3**

**Date Collecte8: 0/ 316321 11:50**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			4.813 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174333	08/25/21 19:54	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 03:21	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-10-R1**

**Lab Sample ID: 570-675M2-4**

**Date Collecte8: 0/ 316321 11:55**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			3.915 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174333	08/25/21 20:17	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 03:44	N1A	ECL 1
		Instrument ID: GC48								

# Lab Chronicle

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

Job ID: 570-67542-1

**Client Sample ID: S-12.5-R1**

**Lab Sample ID: 570-675M2-5**

**Date Collecte8: 0/ 316321 12:00**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			4.378 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174333	08/25/21 20:41	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 04:06	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-2.5-R5**

**Lab Sample ID: 570-675M2-6**

**Date Collecte8: 0/ 316321 12:25**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			6.841 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	174333	08/25/21 23:05	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.94 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 04:27	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-5-R5**

**Lab Sample ID: 570-675M2-7**

**Date Collecte8: 0/ 316321 12:40**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			7.049 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174333	08/26/21 00:34	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.96 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 11:25	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-7.5-R5**

**Lab Sample ID: 570-675M2-8**

**Date Collecte8: 0/ 316321 12:45**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			6.189 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	174333	08/26/21 00:58	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.92 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 05:12	N1A	ECL 1
		Instrument ID: GC48								



# Lab Chronicle

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

Job ID: 570-67542-1

**Client Sample ID: S-10-R5**

**Lab Sample ID: 570-675M2-C**

**Date Collecte8: 0/ 316321 12:M0**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			6.705 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174333	08/26/21 01:21	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.00 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 05:34	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-12.5-R5**

**Lab Sample ID: 570-675M2-10**

**Date Collecte8: 0/ 316321 12:M5**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			6.342 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174333	08/25/21 21:04	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.04 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 05:55	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-2.5-R7**

**Lab Sample ID: 570-675M2-11**

**Date Collecte8: 0/ 316321 14:05**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			6.505 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	174333	08/26/21 01:45	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.09 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 07:01	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-5-R7**

**Lab Sample ID: 570-675M2-12**

**Date Collecte8: 0/ 316321 14:10**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			6.653 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	174333	08/26/21 02:08	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 07:23	N1A	ECL 1
		Instrument ID: GC48								

Eurofins Calscience LLC

# Lab Chronicle

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

Job ID: 570-67542-1

**Client Sample ID: S-7.5-R7**

**Lab Sample ID: 570-675M2-14**

**Date Collecte8: 0/ 316321 14:15**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			5.893 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	174333	08/26/21 02:55	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	174036	08/24/21 16:54	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175405	08/31/21 11:47	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-10-R7**

**Lab Sample ID: 570-675M2-1M**

**Date Collecte8: 0/ 316321 14:20**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			4.632 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	174333	08/26/21 03:18	P1R	ECL 2
		Instrument ID: GC57								
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		1			175405	08/31/21 08:08	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-12.5-R7**

**Lab Sample ID: 570-675M2-15**

**Date Collecte8: 0/ 316321 14:25**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			3.53 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174333	08/25/21 21:28	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.95 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 08:30	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-2.5-9 /**

**Lab Sample ID: 570-675M2-16**

**Date Collecte8: 0/ 316321 14:50**

**x atrid: Soli8**

**Date v eceiTe8: 0/ 317321 10:10**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			6.971 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174333	08/26/21 03:42	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			5.52 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175405	08/31/21 12:10	N1A	ECL 1
		Instrument ID: GC48								

# Lab Chronicle

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

Job ID: 570-67542-1

**Client Sample ID: S-5-9 /**

**Date Collecte8: 0/ 316321 14:55**

**Date v eceiTe8: 0/ 317321 10:10**

**Lab Sample ID: 570-675M2-17**

**x atrid: Soli8**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			10.821 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174333	08/26/21 04:05	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			4.97 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			175405	08/31/21 12:32	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-10-9 /**

**Date Collecte8: 0/ 316321 1M00**

**Date v eceiTe8: 0/ 317321 10:10**

**Lab Sample ID: 570-675M2-1/**

**x atrid: Soli8**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			4.585 g	5 mL	172512	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174333	08/26/21 04:29	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.06 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 09:36	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-12.5-9 /**

**Date Collecte8: 0/ 316321 1M05**

**Date v eceiTe8: 0/ 317321 10:10**

**Lab Sample ID: 570-675M2-1C**

**x atrid: Soli8**

Rrep yBpe	Patch yBpe	Patch x etho8	v un	Dil Factor	Initial Amount	Final Amount	Patch Number	Rprepare8 or AnalBze8	AnalBst	Lab
Total/NA	Prep	5035			2.993 g	5 g	172511	08/18/21 17:47	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174333	08/25/21 21:51	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	174036	08/24/21 16:57	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175405	08/31/21 09:57	N1A	ECL 1
		Instrument ID: GC48								

## LaboratorB v eferences:

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 / 0318876080

Job ID: 570-67584-1

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C916-12	10-11-41

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

# Method Summary

1 0 en 1 t a eodle,  
c a P, rj/ lri : S E E oex obl C M D 1 j 0 A 2 9 9 7 6 0 9 0

Job ID: 570-67594-2

Method	Method Description	Protocol	Laboratory
3 N V 6 T - H E	3 o a G h i w n - s o C r i C c i r a o C V u c a o r V, n w r h i 1 (	3 N V 6 T	S1) 4
3 N V 6 T - D E	3 o a G h i w n - / i u l - s o C r i C c i r a o C V u c a o r V, n w r h i 1 (	3 N V 6 T	S1) 2
A5501 / H1	8 O a w o e l, S E r a t, n o e	/ N L 9 6	S1) 2
50A5	1 O w i r / U w i u c V a y i t e r V a g	/ N L 9 6	S1) 4

## Protocol References:

3 N V 6 T p 3 o a G h i w n V o r t C c i r a o C V u T U r a o, t a b o e  
/ N L 9 6 p a V w n x i r G o r w " o a S F t O t r l e y / o O N t w i d c G U W, t C i G u l, t O x i r G o r w a d V G a S r I n l o e d 3 o F i u b i a 2 v L 6 M e r l n w 8 g r t n i w

## Laboratory References:

S1) 2 p S V a o f l e w 1 t O u l i e, i ) ) 1 ) l e, o a d 7 9 9 0 ) l e, o a N t U d H t a r i e H a o F i d 1 M v 4 L 9 2 d V S ) n 7 2 9 ( L v 5 - 5 9 v 9  
S1) 4 p S V a o f l e w 1 t O u l i e, i ) ) 1 ) t u g w o e d 7 9 9 5 ) t u g w o e M F i d H t a r i e H a o F i d 1 M v 4 L 9 2 d V S ) n 7 2 9 ( L v 5 - 5 9 v 9

S V a o f l e w 1 t O u l i e, i ) ) 1







67542

**Ex**<sup>®</sup> Package  
xpress **US Airbill**

FedEx Tracking Number **8158 1726 2131**

Phone \_\_\_\_\_

State \_\_\_\_\_ ZIP \_\_\_\_\_ Dept./Floor/Suite/Room \_\_\_\_\_

**Billing Reference**

Address: **ARDEN GROVE**  
line for the HOLD location address or the destination of your shipping

CA ZIP **91841 1427**

**Hold Weekday**  
FedEx location address  
REQUIRED. NOT available for  
FedEx First Overnight.

**Hold Saturday**  
FedEx location address  
REQUIRED. Available ONLY for  
FedEx Priority Overnight and  
FedEx 2Day to select locations.

Barcode: **8158 1726 2131**

Form ID No. **0215**

Barcode: **570-67542 Waybill**

**4 Express Package Service**

**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.

☒ **Signature Required**  
Signature Required  
Rest by be left  
Signature

☐ **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

Rev. Date \_\_\_\_\_

fedex.com 1800.GoFedEx 1800.463.3339

# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67521-/

Login Number: 67542

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Question	Answer	Comment
v adioactiyitws a' nlt ckec<ed or i' =A bac<. round a' mea' ured bwa ' uryew meterT	NAR	
f ke coolerh cu' todw' eal, ipSre' ent, i' intactT	f rue	
OamSle cu' todw' eal' , ipSre' ent, are intactT	f rue	
f ke cooler or ' amSle' do not aSSear to kaye been comSromi' ed or tamSered s itkT	f rue	
OamSle' s ere receiyed on iceT	f rue	
Cooler f emSerature i' acceStableT	f rue	
Cooler f emSerature i' recordedT	f rue	
CF C i' Sre' entT	f rue	
CF C i' pilled out in in< and le. ibleT	f rue	
CF C i' pilled out s itk all Sertinent inpprmationT	f rue	
I' tke ?ield OamSlerh name Sre' ent on CF CH	f rue	
f kere are no di' creSancie' bets een tke container' receiyed and tke CF CT	f rue	
OamSle' are receiyed s itkin ( oldin. f ime x)cludin. te' t' s itk immediate ( f' P	f rue	
OamSle container' kaye le. ible label' T	f rue	
Container' are not bro<en or lea<in. T	?al' e	v eper to Job Narratiye por detail' T
OamSle collection dateAime' are SroyidedT	f rue	
RSSroSriate ' amSle container' are u' edT	f rue	
OamSle bottle' are comSletelwppedT	f rue	
OamSle Vre' eryation qeripedT	f rue	
f kere i' ' uppicient yolTpor all reMue' ted analw e' , inclTanwreMue' ted DOAOz'	f rue	
Container' reMuirin. 4ero kead' Sace kaye no kead' Sace or bubble i' =6mm x/ A"PT	f rue	
DultiSka' ic ' amSle' are not Sre' entT	f rue	
OamSle' do not reMuire ' Slittin. or comSo' itin. T	f rue	
v e' idual Cklorine Ckec<edT	NAR	

## 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

## Job ID: 570-67588-1

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-67588-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/17/2021 10:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

#### Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): S-7.5-T1 (570-67588-11). The 4oz container label list S-7.5-J3, while the COC lists S-7.5-T1. Client was contacted via email and advised to follow the sample ID listed on the COC.

#### GC VOA

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 174393. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 174430. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-12.5-T1 (570-67588-13). Re-extraction and/or re-analysis was performed and surrogate recovery was outside control limits. The re-analysis data has been reported.

Method NWTPH-Gx: Surrogate recovery for the following sample was outside control limits: S-12.5-A8 (570-67588-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 174789. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

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

#### GC Semi VOA

Method NWTPH-Dx: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 570-174079 and analytical batch 570-175228 was outside control limits. Sample matrix interference is suspected.

Method NWTPH-Dx: Due to the high concentration of TPH as Diesel Range and TPH as Motor Oil Range, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 570-174079 and analytical batch 570-175228 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

#### General Chemistry

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

#### Organic Prep

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

#### VOA Prep

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

# Detection Summary

2 10 e 2 ntai or li d

, tot de j @ : / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67599-4

## Client Sample ID: S-2.5-A8

## Lab Sample ID: 570-67588-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	K0		44	) . Pn	50	3	g N ☼ T-s S	☼ ben Tg x
☼ T nHDCH 1Whi . I	6p		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oet 8 QWhi . I	Kp		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-10-A8

## Lab Sample ID: 570-67588-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	460		K4	) . Pn	400	3	g N ☼ T-s S	☼ ben Tg x
☼ T nHDCH 1Whi . I	590		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oet 8 QWhi . I	K60		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-12.5-A8

## Lab Sample ID: 570-67588-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	400		60M	) . Pn	50	3	g N ☼ T-s S	☼ ben Tg x
☼ T nHDCH 1Whi . I	6M0		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oet 8 QWhi . I	MM0		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-2.5-T3

## Lab Sample ID: 570-67588-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHDCH 1Whi . I	60M		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oet 8 QWhi . I	90M		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-5-T3

## Lab Sample ID: 570-67588-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet 8 QWhi . I	60		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-7.5-T3

## Lab Sample ID: 570-67588-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHDCH 1Whi . I	46		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oet 8 QWhi . I	4M		50	) . Pn	4	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-10-T3

## Lab Sample ID: 570-67588-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHDCH 1Whi . I	KK0		5p	) . Pn	40	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oet 8 QWhi . I	4A00		5p	) . Pn	40	3	g N ☼ T-DS	j Cdn s l 1 21 ni Ru

☼ hCIDI e deCi j Rj ) nty aol Hi oeCdRal tnaCdhI ) Cn1e HbtI HRH-O

/ RtofCH2n1HdCi dl LL2

# Detection Summary

2 10 e 2 nta i or li d  
, tot ddf @ : / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67599-4

## Client Sample ID: S-12.5-T3

## Lab Sample ID: 570-67588-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oæt 8 QWhi . l	Ap		K0	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-2.5-T1

## Lab Sample ID: 570-67588-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb Cl Q A-24M	00p		00K	) . Pn	4	3	gN ☼ T-s S	☼ ben Rx
☼ T nHDCH 1Whi . l	K0		60K	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oæt 8 QWhi . l	5p		60K	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-5-T1

## Lab Sample ID: 570-67588-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHDCH 1Whi . l	4p		50	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oæt 8 QWhi . l	49		50	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-7.5-T1

## Lab Sample ID: 570-67588-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHDCH 1Whi . l	4M		50	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oæt 8 QWhi . l	4K		50	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-10-T1

## Lab Sample ID: 570-67588-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHDCH 1Whi . l	47		70K	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oæt 8 QWhi . l	MM		70K	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-12.5-T1

## Lab Sample ID: 570-67588-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oæt 8 QWhi . l	K5		KM	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-2.5-Q4

## Lab Sample ID: 570-67588-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb Cl Q A-24M	K0		00K	) . Pn	4	3	gN ☼ T-s S	☼ ben Rx
☼ T nHDCH 1Whi . l	K0		60	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru
☼ T nHE oæt 8 QWhi . l	47		60	) . Pn	4	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru

## Client Sample ID: S-5-Q4

## Lab Sample ID: 570-67588-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb Cl Q A-24M	70M		00K	) . Pn	4	3	gN ☼ T-s S	☼ ben Rx
☼ T nHDCH 1Whi . l	400		MM	) . Pn	5	3	gN ☼ T-DS	j Cdn s l 1 21 ni Ru

☼ hGDI d dcoi j Rj ) nty aol Hi oeCdRal tnaQdhl ) Qn1d HbtI HR#D

/ RtofCH2n1HbCi dl LL2

# Detection Summary

2 10 e 2 nta i or li d

, tot dēp @ : / SSoi E obC̄x D2 P0M#AA760A0

Job ID: 570-67599-4

## Client Sample ID: S-5-Q4 (Continued)

## Lab Sample ID: 570-67588-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oēt 8 QWhi . I	K40		MM	) . Pn	5	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru

## Client Sample ID: S-7.5-Q4

## Lab Sample ID: 570-67588-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbC̄l Q̄A-24M	00A		00M	) . Pn	4	3	gN ☼ T-s S	☼ben R̄x
☼ T nHDCH 1Whi . I	KK		60	) . Pn	4	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru
☼ T nHE oēt 8 QWhi . I	400		60	) . Pn	4	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru

## Client Sample ID: S-10-Q4

## Lab Sample ID: 570-67588-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbC̄l Q̄A-24M	007		004	) . Pn	4	3	gN ☼ T-s S	☼ben R̄x

## Client Sample ID: S-12.5-Q4

## Lab Sample ID: 570-67588-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHDCH 1Whi . I	K9		70	) . Pn	4	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru
☼ T nHE oēt 8 QWhi . I	56		70	) . Pn	4	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru

## Client Sample ID: S-14.5-A8

## Lab Sample ID: 570-67588-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbC̄l Q̄A-24M	40		00K	) . Pn	4	3	gN ☼ T-s S	☼ben R̄x
☼ T nHDCH 1Whi . I	95		p0	) . Pn	4	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru
☼ T nHE oēt 8 QWhi . I	A9		p0	) . Pn	4	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru

## Client Sample ID: S-2.5-P3

## Lab Sample ID: 570-67588-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbC̄l Q̄A-24M	900		400	) . Pn	500	3	gN ☼ T-s S	☼ben R̄x
☼ T nHDCH 1Whi . I - DL	6400		4K0	) . Pn	K0	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru
☼ T nHE oēt 8 QWhi . I - DL	KA00		4K0	) . Pn	K0	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru

## Client Sample ID: S-2.5-Q2

## Lab Sample ID: 570-67588-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbC̄l Q̄A-24M	5M		A0	) . Pn	K0	3	gN ☼ T-s S	☼ben R̄x
☼ T nHDCH 1Whi . I	450		60	) . Pn	4	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru
☼ T nHE oēt 8 QWhi . I	KA0		60	) . Pn	4	3	gN ☼ T-DS	j C̄n s l 1 21 ni Ru

## Client Sample ID: S-5-Q2

## Lab Sample ID: 570-67588-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbC̄l Q̄A-24M	40M		004	) . Pn	4	3	gN ☼ T-s S	☼ben R̄x

☼hC̄lDl d dēC̄i j R̄j ) nty aol Hi oeC̄dR̄al tnaC̄dhl ) C̄n1d̄ Hbtl HR̄H̄O

/ R̄ofC̄H2n1H̄C̄i dl LL2

# Detection Summary

2 10 e 2 ntai or li d

, tot ddp @ : / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67599-4

## Client Sample ID: S-5-Q2 (Continued)

Lab Sample ID: 570-67588-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet 8 QWhi . l	76		50	) . Pn	4	3	gN ☼ T-DS	j Qn s l 1 21 ni Ru

## Client Sample ID: S-7.5-Q2

Lab Sample ID: 570-67588-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb l Q A-24M	009		00A	) . Pn	4	3	gN ☼ T-s S	☼ ben p x
☼ T nHE oet 8 QWhi . l	44		60	) . Pn	4	3	gN ☼ T-DS	j Qn s l 1 21 ni Ru

## Client Sample ID: S-10-Q2

Lab Sample ID: 570-67588-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet 8 QWhi . l	60		60	) . Pn	4	3	gN ☼ T-DS	j Qn s l 1 21 ni Ru

## Client Sample ID: S-12.5-Q2

Lab Sample ID: 570-67588-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet 8 QWhi . l	70		60	) . Pn	4	3	gN ☼ T-DS	j Qn s l 1 21 ni Ru

## Client Sample ID: S-16-P3

Lab Sample ID: 570-67588-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb l Q A-24M	50M		40	) . Pn	4	3	gN ☼ T-s S	☼ ben p x
☼ T nHE oet 8 QWhi . l	Kp		47	) . Pn	4	3	gN ☼ T-DS	j Qn s l 1 21 ni Ru

# Client Sample Results

21 e 2 nta i or li d

Job ID: 570-67599-4

, tot d e / SSoi E obC x D2 POMAA760A0

Client Sample ID: S-. M-r 2

Lab Sample ID: 570-67522-1

Date Cclle/ te8: 023163 1 07:50

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	. 0		44	3 . Pn	g	09R49R4 4:00	09R7R4 4:KA	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01			172 72 / / 361	172 92 / / 36 4	01

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	6g		58	3 . Pn	g	09R4R4 49:KK	09R4R4 06:M6	4
TPH as x ctcoOil Ranf e	. g		58	3 . Pn	g	09R4R4 49:KK	09R4R4 06:M6	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	7:		01 - / 01			172 42 / / 76 :	172 32 / 1868	/

Client Sample ID: S-10-r 2

Lab Sample ID: 570-67522-

Date Cclle/ te8: 023163 1 02:05

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	160		K4	3 . Pn	g	09R49R4 4:00	09R7R4 K0:44	400
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	09		01 - / 01			172 72 / / 361	172 92 / : 16/	/ 11

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	520		58	3 . Pn	g	09R4R4 49:KK	09R4R4 06:56	4
TPH as x ctcoOil Ranf e	. 60		58	3 . Pn	g	09R4R4 49:KK	09R4R4 06:56	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	3:		01 - / 01			172 42 / / 76 :	172 32 / 1868	/

Client Sample ID: S-1. M-r 2

Lab Sample ID: 570-67522-9

Date Cclle/ te8: 023163 1 02:10

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Uualioeo Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	100		68M	3 . Pn	g	09R49R4 4:00	09R7R4 4:KA9	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	50	S/ -	01 - / 01			172 72 / / 361	172 92 / / 367	01

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	690		58	3 . Pn	g	09R4R4 49:KK	09R4R4 07:46	4
TPH as x ctcoOil Ranf e	990		58	3 . Pn	g	09R4R4 49:KK	09R4R4 07:46	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	37		01 - / 01			172 42 / / 76 :	172 32 / 196 8	/

/ TtoHs 2 n'sdCi dl RR2



# Client Sample Results

21 e 2 nta or li d  
, tot d e / SSoi E obC D2 POMAA760A0

Job ID: 570-67599-4

Client Sample ID: S- M-T9

Lab Sample ID: 570-67522-4

Date Cclle/ te8: 023163 1 02:90

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pcpac8	r nalAFe8	Dil ya/
N, G ns ( nsoC l )2 A-24Mu	f D		08K0	3 . Pn	g	09R49R4 49:5	09R6R4 0M5K	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	7/		01 - / 01	172 72 / / 703	172 82 / 150:	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pcpac8	r nalAFe8	Dil ya/
TPH as Diesel Ranf e	6M		58	3 . Pn	g	09R4R4 49:KK	09R6R4 07:W	4
TPH as x ctcoOil Ranf e	2M		58	3 . Pn	g	09R4R4 49:KK	09R6R4 07:W	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	35		01 - / 01	172 42 / / 76 :	172 32 / 1969	/		

Client Sample ID: S-5-T9

Lab Sample ID: 570-67522-5

Date Cclle/ te8: 023163 1 02:95

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pcpac8	r nalAFe8	Dil ya/
N, G ns ( nsoC l )2 A-24Mu	f D		08K	3 . Pn	g	09R49R4 4:0A	09R6R4 0A:49	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	90		01 - / 01	172 72 / / 3614	172 82 / 1467	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pcpac8	r nalAFe8	Dil ya/
N, G ns DCsl 1L ni . l	f D		58	3 . Pn	g	09R4R4 49:KK	09R6R4 07:59	4
TPH as x ctcoOil Ranf e	6M		58	3 . Pn	g	09R4R4 49:KK	09R6R4 07:59	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	3/		01 - / 01	172 42 / / 76 :	172 32 / 1907	/		

Client Sample ID: S-7M-T9

Lab Sample ID: 570-67522-6

Date Cclle/ te8: 023163 1 02:40

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pcpac8	r nalAFe8	Dil ya/
N, G ns ( nsoC l )2 A-24Mu	f D		084	3 . Pn	g	09R49R4 4:0A	09R6R4 0A:AA	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	7:		01 - / 01	172 72 / / 3614	172 82 / 1464	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pcpac8	r nalAFe8	Dil ya/
TPH as Diesel Ranf e	16		58	3 . Pn	g	09R4R4 49:KK	09R6R4 09:49	4
TPH as x ctcoOil Ranf e	19		58	3 . Pn	g	09R4R4 49:KK	09R6R4 09:49	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	34		01 - / 01	172 42 / / 76 :	172 32 / 1767	/		

/ TtoCs 2 n'sdCi dl RR2

# Client Sample Results

21 e 2 nta i or li d  
 , tot d e p @ : / SSoi E obC x D2 P0M4AA760A0

Job ID: 570-67599-4

Client Sample ID: S-10-T9

Lab Sample ID: 570-67522-7

Date Cclle/ te8: 023163 1 02:45

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns ( nsoC l )2 A-24Mu	f D		08M	3 . Ph	g	09R49R4 4:0A	09R6R4 05:0	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	93		01 - / 01	172 72 / / 3614	172 82 / / 1063	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	. . 0		5	3 . Ph	g	09R4R4 49:KK	09R6R4 KK:46	40
TPH as x ctcoOil Ranf e	1400		5	3 . Ph	g	09R4R4 49:KK	09R6R4 KK:46	40
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	38		01 - / 01	172 42 / / 76 :	172 32 / / : 68	/ 1		

Client Sample ID: S-1. M-T9

Lab Sample ID: 570-67522-2

Date Cclle/ te8: 023163 1 02:50

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns ( nsoC l )2 A-24Mu	f D		08M	3 . Ph	g	09R49R4 4:0A	09R6R4 05:15	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	0/		01 - / 01	172 72 / / 3614	172 82 / / 1060	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns DCsl 1L ni . l	f D		K0	3 . Ph	g	09R4R4 49:KK	09R6R4 KK:M9	4
TPH as x ctcoOil Ranf e	4g		K0	3 . Ph	g	09R4R4 49:KK	09R6R4 KK:M9	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	31		01 - / 01	172 42 / / 76 :	172 32 / / : 67	/		

Client Sample ID: S-. M-T1

Lab Sample ID: 570-67522-g

Date Cclle/ te8: 023163 1 0g:00

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Uualioeo Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	0Mg		08K	3 . Ph	g	09R49R4 4:0A	09R6R4 06:04	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	97		01 - / 01	172 72 / / 3614	172 82 / / 1861/	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	. 0		68K	3 . Ph	g	09R4R4 49:KK	09R6R4 KK:59	4
TPH as x ctcoOil Ranf e	5g		68K	3 . Ph	g	09R4R4 49:KK	09R6R4 KK:59	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	31		01 - / 01	172 42 / / 76 :	172 32 / / : 67	/		

/ TtoH C s 2 n s d C i d l R R 2

# Client Sample Results

21 e 2 nta i or li d

Job ID: 570-67599-4

, tot de / SSoi E obCx D2 POMAA760A0

Client Sample ID: S-5-T1

Lab Sample ID: 570-67522-10

Date Cclle/ te8: 023163 1 0g:05

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns ( nsoCl ) 2 A-24Mu	f D		084	3 . Ph	g	09R49R4 4:0A	09R6R4 06:K7	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	7/		01 - / 01	172 72 / / 3614	172 82 / / 186 9	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	1g		58	3 . Ph	g	09R4R4 49:KK	09R6R4 KM47	4
TPH as x ctcoOil Ranf e	12		58	3 . Ph	g	09R4R4 49:KK	09R6R4 KM47	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	3:		01 - / 01	172 42 / / 76 :	172 32 / / 56 9	/		

Client Sample ID: S-7M-T1

Lab Sample ID: 570-67522-11

Date Cclle/ te8: 023163 1 0g:10

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns ( nsoCl ) 2 A-24Mu	f D		084	3 . Ph	g	09R49R4 4:0A	09R6R4 07:AM	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	88		01 - / 01	172 72 / / 3614	172 82 / / 196 5	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	19		58	3 . Ph	g	09R4R4 49:KK	09R6R4 KM18	4
TPH as x ctcoOil Ranf e	1.		58	3 . Ph	g	09R4R4 49:KK	09R6R4 KM18	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	79		01 - / 01	172 42 / / 76 :	172 32 / / 56 7	/		

Client Sample ID: S-10-T1

Lab Sample ID: 570-67522-1.

Date Cclle/ te8: 023163 1 0g:15

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns ( nsoCl ) 2 A-24Mu	f D		087	3 . Ph	g	09R49R4 4:0A	09R6R4 09:0	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	87		01 - / 01	172 72 / / 3614	172 82 / / 176 3	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	17		78	3 . Ph	g	09R4R4 49:KK	09R6R4 KM59	4
TPH as x ctcoOil Ranf e	99		78	3 . Ph	g	09R4R4 49:KK	09R6R4 KM59	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	38		01 - / 01	172 42 / / 76 :	172 32 / / 56 7	/		

/ TtoCs 2 n'sdCi dl RR2

# Client Sample Results

2 10 e 2 nta i or li d  
, to d d p @ : / SSoi E ob Cx D2 POMAA760A0

Job ID: 570-67599-4

Client Sample ID: S-1. M-T1

Lab Sample ID: 570-67522-19

Date Cclle/ te8: 023163 1 0g:. 0

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns ( nsoCcl )2 A-24Mu	f D		089	3 . Pn	g	09R49RK4 4:0A	09R7RK4 KK:MM	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	49	S/-	01 - / 01	172 72 / / 3614	172 92 / / : 65	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns DCsl 1L ni . l	f D		KM	3 . Pn	g	09R49RK4 49:KK	09R0RK4 00:K0	4
TPH as x ctcoOil Ranf e	. 5		KM	3 . Pn	g	09R49RK4 49:KK	09R0RK4 00:K0	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	35		01 - / 01	172 42 / / 76 :	172 12 / / 116 1	/		

Client Sample ID: S-. M-U4

Lab Sample ID: 570-67522-14

Date Cclle/ te8: 023163 1 0g:40

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	. M		08K	3 . Pn	g	09R49RK4 4:0A	09R7RK4 4K:5K	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	84		01 - / 01	172 72 / / 3614	172 92 / / : 0:	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	. 0		68	3 . Pn	g	09R49RK4 49:KK	09R0RK4 00:A0	4
TPH as x ctcoOil Ranf e	17		68	3 . Pn	g	09R49RK4 49:KK	09R0RK4 00:A0	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	38		01 - / 01	172 42 / / 76 :	172 12 / / 116 1	/		

Client Sample ID: S-5-U4

Lab Sample ID: 570-67522-15

Date Cclle/ te8: 023163 1 0g:45

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	7M		08K	3 . Pn	g	09R49RK4 4:0A	09R7RK4 4M:46	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	9/		01 - / 01	172 72 / / 3614	172 92 / / 56 8	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	100		MM	3 . Pn	g	09R49RK4 49:KK	09R0RK4 04:00	5
TPH as x ctcoOil Ranf e	. 10		MM	3 . Pn	g	09R49RK4 49:KK	09R0RK4 04:00	5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	38		01 - / 01	172 42 / / 76 :	172 12 / / 116 1	0		

/ TtoHs 2 n'sdCi dl RR2

# Client Sample Results

21 e 2 nta i or li d  
 , tot d e p @ : / SSoi E ob Cx D2 POMAA760A0

Job ID: 570-67599-4

Client Sample ID: S-7M-U4

Lab Sample ID: 570-67522-16

Date Cclle/ te8: 023163 1 0g:50

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	0M4		08KM	3 . Ph	g	09R49RK4 4:0A	09R07RK4 4MM	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	90		01 - / 01	172 72 / / 3614	172 92 / / 563	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	.		680	3 . Ph	g	09R49RK4 49:KK	09R07RK4 04:K0	4
TPH as x ctcoOil Ranf e	100		680	3 . Ph	g	09R49RK4 49:KK	09R07RK4 04:K0	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	33		01 - / 01	172 42 / / 76 :	172 12 / / 1 6 1	/		

Client Sample ID: S-10-U4

Lab Sample ID: 570-67522-17

Date Cclle/ te8: 023163 1 0g:55

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	0M7		08K4	3 . Ph	g	09R49RK4 4:0A	09R06RK4 49:AA	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	88		01 - / 01	172 72 / / 3614	172 82 / / 7614	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns DCsl 1L ni . l	f D		680	3 . Ph	g	09R49RK4 49:KK	09R07RK4 0K:KK	4
N, G ns E oet OGL ni . l	f D		680	3 . Ph	g	09R49RK4 49:KK	09R07RK4 0K:KK	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	31		01 - / 01	172 42 / / 76 :	172 12 / / 1 : 6 :	/		

Client Sample ID: S-1. M-U4

Lab Sample ID: 570-67522-12

Date Cclle/ te8: 023163 1 10:00

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns ( nsoCl ) 2A-24Mu	f D		08A7	3 . Ph	g	09R49RK4 4:0A	09R06RK4 49:K4	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	8/		01 - / 01	172 72 / / 3614	172 82 / / 76 /	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	. 2		78K	3 . Ph	g	09R49RK4 49:KK	09R07RK4 0K:AK	4
TPH as x ctcoOil Ranf e	56		78K	3 . Ph	g	09R49RK4 49:KK	09R07RK4 0K:AK	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	38		01 - / 01	172 42 / / 76 :	172 12 / / 1 : 6 :	/		

/ TtoHs 2 n'sdCi dl RR2

# Client Sample Results

2101 e 2 nta i or li d  
, to d d p @ : / SSoi E ob Cx D2 P0M4AA760A0

Job ID: 570-67599-4

Client Sample ID: S-14M-r 2

Lab Sample ID: 570-67522-1g

Date Cclle/ te8: 023163 1 02:15

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	116		08K	3 . Pn	g	09R49RK4 4:00A	09R6RK4 47:57	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	0:		01 - / 01	172 72 / / 3614	172 82 / / 909	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	25		08	3 . Pn	g	09R49RK4 49:KK	09R0RK4 0MOK	4
TPH as x ctcoOil Ranf e	42		08	3 . Pn	g	09R49RK4 49:KK	09R0RK4 0MOK	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	38		01 - / 01	172 42 / / 76 :	172 12 / / 156 :	/		

Client Sample ID: S-. M-P9

Lab Sample ID: 570-67522-. 0

Date Cclle/ te8: 023163 1 10:15

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	200		400	3 . Pn	g	09R49RK4 4:00	09R7RK4 4:04	500
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	93		01 - / 01	172 72 / / 361	172 92 / / 361/	011		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup - DL

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	6100		4K0	3 . Pn	g	09R49RK4 49:KK	09R0RK4 47:0A	K0
TPH as x ctcoOil Ranf e	. 400		4K0	3 . Pn	g	09R49RK4 49:KK	09R0RK4 47:0A	K0
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	/ 18		01 - / 01	172 42 / / 76 :	172 12 / / 9614	: 1		

Client Sample ID: S-. M-U.

Lab Sample ID: 570-67522-. 1

Date Cclle/ te8: 023163 1 11:00

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	59		A8	3 . Pn	g	09R49RK4 4:00	09R7RK4 KK:56	K0
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	07		01 - / 01	172 72 / / 361	172 92 / / : 08	: 1		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFc8	Dil ya/
TPH as Diesel Ranf e	150		68K	3 . Pn	g	09R49RK4 49:MK	09R0RK4 04:5	4
TPH as x ctcoOil Ranf e	. 40		68K	3 . Pn	g	09R49RK4 49:MK	09R0RK4 04:5	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	/ : 9		01 - / 01	172 42 / / 76 :	172 12 / / 1/ 03	/		

/ TtoHcs 2 n' dCi dl RR2



# Client Sample Results

2 10 e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Cx D2 POM#AA760A0

Job ID: 570-67599-4

Client Sample ID: S-5-U.

Date Cclle/ te8: 023163 1 11:05

Date Re/ eive8: 023173 1 10:10

Lab Sample ID: 570-67522-. .

x attd: Scli8

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFe8	Dil ya/
TPH as Gasline (C4-C19)	110		08K4	3 . Pn	g	09R49RK4 4:0A	09R7RK4 4A:A	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	31		01 - / 01	172 72 / / 3614	172 92 / / 4613	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFe8	Dil ya/
N, G ns DCsl 1L ni . l	f D		58K	3 . Pn	g	09R4RK4 49:MK	09R0RK4 0K:K0	4
TPH as x ctcoOil Ranf e	76		58K	3 . Pn	g	09R4RK4 49:MK	09R0RK4 0K:K0	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	/ : :		01 - / 01	172 42 / / 76:	172 12 / 1: 6 1	/		

Client Sample ID: S-7M-U.

Date Cclle/ te8: 023163 1 11:10

Date Re/ eive8: 023173 1 10:10

Lab Sample ID: 570-67522-. 9

x attd: Scli8

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFe8	Dil ya/
TPH as Gasline (C4-C19)	0M2		08KA	3 . Pn	g	09R49RK4 4:0A	09R7RK4 45:4M	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	85		01 - / 01	172 72 / / 3614	172 92 / / 06 5	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFe8	Dil ya/
N, G ns DCsl 1L ni . l	f D		68K	3 . Pn	g	09R4RK4 49:MK	09R0RK4 0K:AK	4
TPH as x ctcoOil Ranf e	11		68K	3 . Pn	g	09R4RK4 49:MK	09R0RK4 0K:AK	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	/ : :		01 - / 01	172 42 / / 76:	172 12 / 1: 6:	/		

Client Sample ID: S-10-U.

Date Cclle/ te8: 023163 1 11:15

Date Re/ eive8: 023173 1 10:10

Lab Sample ID: 570-67522-. 4

x attd: Scli8

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFe8	Dil ya/
N, G ns ( nso C l ) 2A-24Mu	f D		08K0	3 . Pn	g	09R49RK4 4:0A	09R7RK4 45:M6	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	95		01 - / 01	172 72 / / 3614	172 92 / / 06 8	/		

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpacce8	r nalAFe8	Dil ya/
N, G ns DCsl 1L ni . l	f D		68K	3 . Pn	g	09R4RK4 49:MK	09R0RK4 0MA9	4
TPH as x ctcoOil Ranf e	6M		68K	3 . Pn	g	09R4RK4 49:MK	09R0RK4 0MA9	4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	/ : 4		01 - / 01	172 42 / / 76:	172 12 / 15617	/		

/ TtoH C s 2 n s d C i d l R R 2

# Client Sample Results

2 10 e 2 nta i or li d

, tot d e p @ : / SSoi E ob Cx D2 POM#AA760A0

Job ID: 570-67599-4

Client Sample ID: S-1. M-U.

Lab Sample ID: 570-67522-. 5

Date Cclle/ te8: 023163 1 11:. 0

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns ( nsoC) 2A-24M	f D		084	3 . Ph	g	09R49R4 4:0A	09R7R4 45:5	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7:		01 - / 01			172 72 / / 3614	172 92 / / 003	/

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns DCsl 1L ni . l	f D		68	3 . Ph	g	09R49R4 49:MK	09R0R4 0A:40	4
TPH as x ctcoOil Ranf e	7M		68	3 . Ph	g	09R49R4 49:MK	09R0R4 0A:40	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 18		01 - / 01			172 42 / / 76:	172 12 / / 146 1	/

Client Sample ID: S-16-P9

Lab Sample ID: 570-67522-. 6

Date Cclle/ te8: 023163 1 10:. 5

x attd: Scli8

Date Re/ eive8: 023173 1 10:10

## x ethc8: NWTPH-Gd - Ncdhwest - Vclatile Petocleum Pcc8u/ ts (GC)

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
TPH as Gasline (C4-C19)	5M		48	3 . Ph	g	09R49R4 4:0A	09R7R4 46:KM	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	0/		01 - / 01			172 72 / / 3614	172 92 / / 86 5	/

## x ethc8: NWTPH-Dd - Ncdhwest - Semi-Vclatile Petocleum Pcc8u/ ts (GC) - Sili/ a Gel Cleanup

r nalAte	Result	Uualioeo	RL	z nit	D	Pccpac8	r nalAFc8	Dil ya/
N, G ns DCsl 1L ni . l	f D		47	3 . Ph	g	09R49R4 49:MK	09R0R4 0A:M	4
TPH as x ctcoOil Ranf e	. g		47	3 . Ph	g	09R49R4 49:MK	09R0R4 0A:M	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ : 5		01 - / 01			172 42 / / 76:	172 12 / / 146/	/

/ TtoCs 2 n'sdCi dl RR2

# 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

Eurofins Calscience LLC

# 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

2 10 e 2 nta i or li d  
, tot de p @ : / SSoi E obCx D2 POM#AA760A0

Job ID: 570-67599-4

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

Lab Sample ID: MB 570-173262/24

Matrix: Solid

Anal8sis Batch: 173262

Client Sample ID: Method Blank

Prep T8pe: Total/Ny

Anal8te	MB Result	MB QualiUer	RL	z nit	D	Prepared	Anal8Fed	Dil Aac
3, T nHs nHbCl Q A-24M	) D		ON5	mgPKg			09P 6P 4 04:AM	4
Surrogate	%Recovery	MB QualiUer	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		05 - 105				58/72/71 51:43	1

Lab Sample ID: LCS 570-173262/2f

Matrix: Solid

Anal8sis Batch: 173262

Client Sample ID: Lab Control Sample

Prep T8pe: Total/Ny

Anal8te	Spike y dded	LCS Result	LCS QualiUer	z nit	D	9 Rec	9 Rec% Limits	
3, T nHs nHbCl Q A-24M	. MM	419AA		mgPKg		97	77 - 4. 9	
Surrogate	%Recovery	LCS QualiUer	Limits					
4-Bromofluorobenzene (Surr)	86		05 - 105					

Lab Sample ID: LCSD 570-173262/27

Matrix: Solid

Anal8sis Batch: 173262

Client Sample ID: Lab Control Sample Dup

Prep T8pe: Total/Ny

Anal8te	Spike y dded	LCSD Result	LCSD QualiUer	z nit	D	9 Rec	9 Rec% Limits	RPD	RPD Limit
3, T nHs nHbCl Q A-24M	. MM	419. A		mgPKg		96	77 - 4. 9	4	46
Surrogate	%Recovery	LCSD QualiUer	Limits						
4-Bromofluorobenzene (Surr)	67		05 - 105						

Lab Sample ID: MB 570-173320/25

Matrix: Solid

Anal8sis Batch: 173320

Client Sample ID: Method Blank

Prep T8pe: Total/Ny

Anal8te	MB Result	MB QualiUer	RL	z nit	D	Prepared	Anal8Fed	Dil Aac
3, T nHs nHbCl Q A-24M	) D		ON5	mgPKg			09P 6P 4 06:. 6	4
Surrogate	%Recovery	MB QualiUer	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	01		05 - 105				58/72/71 52:72	1

Lab Sample ID: LCS 570-173320/22

Matrix: Solid

Anal8sis Batch: 173320

Client Sample ID: Lab Control Sample

Prep T8pe: Total/Ny

Anal8te	Spike y dded	LCS Result	LCS QualiUer	z nit	D	9 Rec	9 Rec% Limits	
3, T nHs nHbCl Q A-24M	. M4	. 10A0		mgPKg		87	77 - 4. 9	
Surrogate	%Recovery	LCS QualiUer	Limits					
4-Bromofluorobenzene (Surr)	65		05 - 105					

/ utofCH2n1dCi dl LL2

# QC Sample Results

2 10 e 2 n tai or li d  
, tot de f @ : / SSoi E ob Qx D2 POM#AA760A0

Job ID: 570-67599-4

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

Lab Sample ID: LCSD 570-173320/26

Matrix: Solid

Analysis Batch: 173320

Client Sample ID: Lab Control Sample Dup

Prep T8pe: Total/Ny

Analite	Spike Added	LCSD Result	LCSD Qualifier	z nit	D	9 Rec	9 Rec% Limits	RPD	RPD Limit
3, T nHs nHb Cl A-24M	. MM	. M67		mg/Kg		87	77 - 4. 9	4	46
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	65		05 - 105						

Lab Sample ID: MB 570-173746/27

Matrix: Solid

Analysis Batch: 173746

Client Sample ID: Method Blank

Prep T8pe: Total/Ny

Analite	MB Result	MB Qualifier	RL	z nit	D	Prepared	Anal8Fed	Dil Aac
3, T nHs nHb Cl A-24M	) D		0N5	mg/Kg			09P 7P 4 44:A	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	27		05 - 105				58/79/71 11:47	1

Lab Sample ID: MB 570-173746/24

Matrix: Solid

Analysis Batch: 173746

Client Sample ID: Method Blank

Prep T8pe: Total/Ny

Analite	MB Result	MB Qualifier	RL	z nit	D	Prepared	Anal8Fed	Dil Aac
3, T nHs nHb Cl A-24M	) D		5N0	mg/Kg			09P 7P 4 4. :06	. 0
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	09		05 - 105				58/79/71 17:52	75

Lab Sample ID: LCS 570-173746/25

Matrix: Solid

Analysis Batch: 173746

Client Sample ID: Lab Control Sample

Prep T8pe: Total/Ny

Analite	Spike Added	LCS Result	LCS Qualifier	z nit	D	9 Rec	9 Rec% Limits		
3, T nHs nHb Cl A-24M	. MM	. M. 4		mg/Kg		400	77 - 4. 9		
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	62		05 - 105						

Lab Sample ID: LCSD 570-173746/2f

Matrix: Solid

Analysis Batch: 173746

Client Sample ID: Lab Control Sample Dup

Prep T8pe: Total/Ny

Analite	Spike Added	LCSD Result	LCSD Qualifier	z nit	D	9 Rec	9 Rec% Limits	RPD	RPD Limit
3, T nHs nHb Cl A-24M	. M.	. MM6		mg/Kg		404	77 - 4. 9	4	46
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		05 - 105						

/ utofCH2n1dCi dl LL2



# QC Sample Results

2101 e 2 nta i or li d

, tot d d p @ : / SSoi E ob Cx D2 POM#AA760A0

Job ID: 570-67599-4

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

Lab Sample ID: MB 570-173070/1-y

Matrix: Solid

Anal8sis Batch: 175153

Client Sample ID: Method Blank

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173070

Anal8te	MB Result	MB Qualifier	RL	z nit	D	Prepared	Anal8Fed	Dil Aac
3, T nHDCH 1Rni gl	) D		5N	mgPKg		09P AP 4 49: .	09P 9P 4 48: . M	4
3, T nHE oet OGRni gl	) D		5N	mgPKg		09P AP 4 49: .	09P 9P 4 48: . M	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	69		05 - 105			58/74/71 18:77	58/78/71 16:73	1

Lab Sample ID: LCS 570-173070/. -y

Matrix: Solid

Anal8sis Batch: 175153

Client Sample ID: Lab Control Sample

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173070

Anal8te	Spike y dded	LCS Result	LCS Qualifier	z nit	D	9 Rec	9 Rec% Limits	
3, T nHDCH 1Q 40-2. 9(	A00	AA5NM		mgPKg		444	76 - 4. 6	
Surrogate	%Recovery	Qualifier	Limits					
n-Octacosane (Surr)	60		05 - 105					

Lab Sample ID: LCS 570-173070/f -y

Matrix: Solid

Anal8sis Batch: 175153

Client Sample ID: Lab Control Sample

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173070

Anal8te	Spike y dded	LCS Result	LCS Qualifier	z nit	D	9 Rec	9 Rec% Limits	
3, T nHE oet OQ 47-2 AA(	A00	A45N		mgPKg		40A	74 - 4MB	
Surrogate	%Recovery	Qualifier	Limits					
n-Octacosane (Surr)	68		05 - 105					

Lab Sample ID: LCSD 570-173070/2-y

Matrix: Solid

Anal8sis Batch: 175153

Client Sample ID: Lab Control Sample Dup

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173070

Anal8te	Spike y dded	LCSD Result	LCSD Qualifier	z nit	D	9 Rec	9 Rec% Limits	RPD	RPD Limit
3, T nHDCH 1Q 40-2. 9(	A00	A7. M		mgPKg		449	76 - 4. 6	6	. 0
Surrogate	%Recovery	Qualifier	Limits						
n-Octacosane (Surr)	69		05 - 105						

Lab Sample ID: LCSD 570-173070/7-y

Matrix: Solid

Anal8sis Batch: 175153

Client Sample ID: Lab Control Sample Dup

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173070

Anal8te	Spike y dded	LCSD Result	LCSD Qualifier	z nit	D	9 Rec	9 Rec% Limits	RPD	RPD Limit
3, T nHE oet OQ 47-2 AA(	A00	A06MA		mgPKg		40.	74 - 4MB	.	. 0
Surrogate	%Recovery	Qualifier	Limits						
n-Octacosane (Surr)	65		05 - 105						

/ utofCH2n1dCi dl LL2

# QC Sample Results

2 10 e 2 n tai or li d  
, tot de p @ : / SSoi E ob Qx D2 POMAA760A0

Job ID: 570-67599-4

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

Lab Sample ID: 570-f 7544-1 MS

Matrix: Solid

Anal8sis Batch: 175153

Client Sample ID: S-. %y 4

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173070

Anal8te	Sample Result	Sample Qualifier	Spike y dded	MS Result	MS Qualifier	z nit	D	9 Rec	9 Rec% Limits
3, T nHDC H 1Q 40-2. 9(	78		A6A	605N		mgPKg	☆	44M	M - 475
Surrogate	%Recovery	MS Qualifier	MS Limits						
n-Octacosane (Surr)	159		05 - 105						

Lab Sample ID: 570-f 7544-1 MS

Matrix: Solid

Anal8sis Batch: 175153

Client Sample ID: S-. %y 4

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173070

Anal8te	Sample Result	Sample Qualifier	Spike y dded	MS Result	MS Qualifier	z nit	D	9 Rec	9 Rec% Limits
3, T nHE oet OQ 47-2 AA(	67		A57	5M N		mgPKg	☆	40.	74 - 47A
Surrogate	%Recovery	MS Qualifier	MS Limits						
n-Octacosane (Surr)	86		05 - 105						

Lab Sample ID: 570-f 7544-1 MSD

Matrix: Solid

Anal8sis Batch: 175153

Client Sample ID: S-. %y 4

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173070

Anal8te	Sample Result	Sample Qualifier	Spike y dded	MSD Result	MSD Qualifier	z nit	D	9 Rec	9 Rec% Limits	RPD	RPD Limit
3, T nHDC H 1Q 40-2. 9(	78		A64	5A4N		mgPKg	☆	400	M - 475	44	. 0
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	84		05 - 105								

Lab Sample ID: 570-f 7544-1 MSD

Matrix: Solid

Anal8sis Batch: 175153

Client Sample ID: S-. %y 4

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173070

Anal8te	Sample Result	Sample Qualifier	Spike y dded	MSD Result	MSD Qualifier	z nit	D	9 Rec	9 Rec% Limits	RPD	RPD Limit
3, T nHE oet OQ 47-2 AA(	67		A60	5M N		mgPKg	☆	40M	74 - 47A	4	. 0
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	64		05 - 105								

Lab Sample ID: MB 570-173076/1-y

Matrix: Solid

Anal8sis Batch: 175. . 4

Client Sample ID: Method Blank

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173076

Anal8te	MB Result	MB Qualifier	RL	z nit	D	Prepared	y nal8Fed	Dil Aac
3, T nHDC H 1Rni gl	) D		5N	mgPKg		09P AP 4 49: 9	09P 8P 4 4. :5A	4
3, T nHE oet OQRni gl	) D		5N	mgPKg		09P AP 4 49: 9	09P 8P 4 4. :5A	4
Surrogate	%Recovery	MB Qualifier	MB Limits					
n-Octacosane (Surr)	174		05 - 105					
				Prepared	Analyzed	Dil Fac		
				58/74/71 18:78	58/76/71 17:04	1		

/ utofCH2 n1dCi dl LL2

# QC Sample Results

2 10 e 2 n tai or li d  
, tot de p @ : / SSoi E ob Qx D2 POM#AA760A0

Job ID: 570-67599-4

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

Lab Sample ID: LCS 570-173076/. -y  
Matrix: Solid  
y nal8sis Batch: 175. . 4

Client Sample ID: Lab Control Sample  
Prep T8pe: Silica Gel Cleanup  
Prep Batch: 173076

y nal8te			Spike y dded	LCS Result	LCS QualiUer	z nit mgRKg	D	9 Rec	9 Rec% Limits	
3, T nHDCH 1Q40-2. 9(			A00	A5A				44A	76 - 4. 6	
Surrogate		LCS %Recovery	LCS Qualifier	Limits						
n-Octacosane (Surr)		176		05 - 105						

Lab Sample ID: LCS 570-173076/f -y  
Matrix: Solid  
y nal8sis Batch: 175. . 4

Client Sample ID: Lab Control Sample  
Prep T8pe: Silica Gel Cleanup  
Prep Batch: 173076

y nal8te			Spike y dded	LCS Result	LCS QualiUer	z nit mgRKg	D	9 Rec	9 Rec% Limits	
3, T nHE oet OQ47-2AA(			A00	A6B				440	74 - 4MB	
Surrogate		LCS %Recovery	LCS Qualifier	Limits						
n-Octacosane (Surr)		177		05 - 105						

Lab Sample ID: LCSD 570-173076/2-y  
Matrix: Solid  
y nal8sis Batch: 175. . 4

Client Sample ID: Lab Control Sample Dup  
Prep T8pe: Silica Gel Cleanup  
Prep Batch: 173076

y nal8te			Spike y dded	LCSD Result	LCSD QualiUer	z nit mgRKg	D	9 Rec	9 Rec% Limits	RPD Limit
3, T nHDCH 1Q40-2. 9(			A00	AA4N				440	76 - 4. 6	M . 0
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)		116		05 - 105						

Lab Sample ID: LCSD 570-173076/7-y  
Matrix: Solid  
y nal8sis Batch: 175. . 4

Client Sample ID: Lab Control Sample Dup  
Prep T8pe: Silica Gel Cleanup  
Prep Batch: 173076

y nal8te			Spike y dded	LCSD Result	LCSD QualiUer	z nit mgRKg	D	9 Rec	9 Rec% Limits	RPD Limit
3, T nHE oet OQ47-2AA(			A00	A06N				40.	74 - 4MB	9 . 0
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)		150		05 - 105						

Lab Sample ID: 570-f 7f 12-y -. 1-y MS  
Matrix: Solid  
y nal8sis Batch: 175. . 4

Client Sample ID: Matrix Spike  
Prep T8pe: Silica Gel Cleanup  
Prep Batch: 173076

y nal8te	Sample Result	Sample QualiUer	Spike y dded	MS Result	MS QualiUer	z nit mgRKg	D	9 Rec	9 Rec% Limits	
3, T nHDCH 1Q40-2. 9(	9000	F.	A6A	5846	A		☆	-AA6	M - 475	
Surrogate		MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)		119		05 - 105						

/ utofCH2n1dCi dl LL2

# QC Sample Results

2 10 e 2 ntai or li d  
, tot d p Q : / SSoi E ob Qx D2 POM#AA760A0

Job ID: 570-67599-4

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

Lab Sample ID: 570-f 7f 12-y -. 1-B MSD

Matrix: Solid

Anal8sis Batch: 175. . 4

Client Sample ID: Matrix Spike Duplicate

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173076

Anal8te	Sample Result	Sample Qualifier	Spike y dded	MSD Result	MSD Qualifier	z nit mg/Kg	D	9 Rec	9 Rec% Limits	RPD	RPD Limit
3, T nHDCH 1Q 40-2. 9(	9000	F.	A68	75MB	A F.		☆	-85	M - 475	. A	. 0
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
n-Octacosane (Surr)	176		05 - 105								

Lab Sample ID: 570-f 7f 12-y -. 1-C MS

Matrix: Solid

Anal8sis Batch: 175. . 4

Client Sample ID: Matrix Spike

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173076

Anal8te	Sample Result	Sample Qualifier	Spike y dded	MS Result	MS Qualifier	z nit mg/Kg	D	9 Rec	9 Rec% Limits		
3, T nHE oet OQ 47-2 AA(	M000		A74	M5A0	A		☆	-54	74 - 47A		
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>								
n-Octacosane (Surr)	170		05 - 105								

Lab Sample ID: 570-f 7f 12-y -. 1-D MSD

Matrix: Solid

Anal8sis Batch: 175. . 4

Client Sample ID: Matrix Spike Duplicate

Prep T8pe: Silica Gel Cleanup

Prep Batch: 173076

Anal8te	Sample Result	Sample Qualifier	Spike y dded	MSD Result	MSD Qualifier	z nit mg/Kg	D	9 Rec	9 Rec% Limits	RPD	RPD Limit
3, T nHE oet OQ 47-2 AA(	M000		A7M	MAM	A		☆	-7A	74 - 47A	M	. 0
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
n-Octacosane (Surr)	116		05 - 105								

/ utofCH2n1dCi dl LL2

# QC Association Summary

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

Job ID: 570-67588-1

## GC VOA

### Prep Batch: 172060

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: 172063

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: 176959

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: 176694

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: 176694 (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: 176785

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: 176474

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: 176474 (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: 176475

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: 170106

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: 170223

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

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-67588-1

## GC Semi VOA (Continued)

### Analysis Batch: 170223 (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: 170228

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: 170999

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-R1**

**Date Collecte8: 01/M6/2M07:50**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-M**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			6.794 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	174789	08/27/21 19:24	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.98 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 06:36	N5Y3	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-M0-R1**

**Date Collecte8: 01/M6/2M01:05**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-2**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			6.995 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		100	5 mL	5 mL	174789	08/27/21 20:11	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 06:56	N5Y3	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-M2.5-R1**

**Date Collecte8: 01/M6/2M01:M0**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-N**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			11.761 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		50	5 mL	5 mL	174789	08/27/21 19:48	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175154	08/29/21 07:16	N5Y3	ECL 1
		Instrument ID: GC50								

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

**Date Collecte8: 01/M6/2M01:N0**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-4**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			7.32 g	5 g	172545	08/18/21 18:59	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 03:52	A9VE	ECL 2
		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 07:37	N5Y3	ECL 1
		Instrument ID: GC50								

# Lab Chronicle

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

Job ID: 570-67588-1

**Client Sample ID: S-5-TN**

**Date Collecte8: 01/M6/2M01:N5**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-5**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	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-TN**

**Date Collecte8: 01/M6/2M01:40**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-6**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	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-M0-TN**

**Date Collecte8: 01/M6/2M01:45**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-7**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	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-M2.5-TN**

**Date Collecte8: 01/M6/2M01:50**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-1**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	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-TM**

**Lab Sample ID: 570-67511-C**

**Date Collecte8: 01/M6/2M0Q00**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MM0:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			5.964 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 06:01	A9VE	ECL 2
		Instrument ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 22:58	A1W	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-5-TM**

**Lab Sample ID: 570-67511-M**

**Date Collecte8: 01/M6/2M0Q05**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MM0:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			6.921 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 06:27	A9VE	ECL 2
		Instrument ID: GC22								
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		1			175226	08/29/21 23:17	A1W	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-7.5-TM**

**Lab Sample ID: 570-67511-M**

**Date Collecte8: 01/M6/2M0QMD**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MM0:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			12.868 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 07:43	A9VE	ECL 2
		Instrument ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.17 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 23:38	A1W	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-M-TM**

**Lab Sample ID: 570-67511-M**

**Date Collecte8: 01/M6/2M0QM5**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MM0:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			2.34 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174393	08/26/21 08:09	A9VE	ECL 2
		Instrument ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.00 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 23:58	A1W	ECL 1
		Instrument ID: GC50								

# Lab Chronicle

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

Job ID: 570-67588-1

**Client Sample ID: S-M2.5-TM**

**Lab Sample ID: 570-67511-MN**

**Date Collecte8: 01/M6/2M0Q20**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MM0:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			6.594 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 22:33	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.16 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 00:20	A1W	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-2.5-9 4**

**Lab Sample ID: 570-67511-MN**

**Date Collecte8: 01/M6/2M0Q40**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MM0:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			6.845 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 12:52	A9VE	ECL 2
		Instrument ID: GC57								
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		1			175226	08/30/21 00:40	A1W	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-5-9 4**

**Lab Sample ID: 570-67511-MN**

**Date Collecte8: 01/M6/2M0Q45**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MM0:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			7.54 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 13:16	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175226	08/30/21 01:00	A1W	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-7.5-9 4**

**Lab Sample ID: 570-67511-MN**

**Date Collecte8: 01/M6/2M0Q50**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MM0:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			6.65 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 13:39	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 01:20	A1W	ECL 1
		Instrument ID: GC50								

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# Lab Chronicle

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

Job ID: 570-67588-1

**Client Sample ID: S-MD-9 4**

**Date Collecte8: 01/M6/2M0Q55**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-M7**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			7.059 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174430	08/26/21 18:44	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 02:22	A1W	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-M2.5-9 4**

**Date Collecte8: 01/M6/2MM0:00**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-M**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			3.848 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174430	08/26/21 18:21	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 02:42	A1W	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-M4.5-R1**

**Date Collecte8: 01/M6/2M01:M6**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-MC**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			7.435 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174430	08/26/21 17:57	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.03 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/30/21 03:02	A1W	ECL 1
		Instrument ID: GC50								

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

**Date Collecte8: 01/M6/2MM0:M6**

**Date 3 eceive8: 01/M7/2MM0:M0**

**Lab Sample ID: 570-67511-20**

**x atrid: Soli8**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			7.106 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	174789	08/27/21 19:01	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC	DL		10.25 g	10 mL	174070	08/24/21 18:22	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	20			175333	08/30/21 17:04	UJ3K	ECL 1
		Instrument ID: GC50								

# Lab Chronicle

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

Job ID: 570-67588-1

**Client Sample ID: S-2.5-9 2**

**Lab Sample ID: 570-67511-2M**

**Date Collecte8: 01/M6/2MMM00**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MMD:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			6.966 g	5 mL	172546	08/18/21 19:00	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		20	5 mL	5 mL	174789	08/27/21 22:56	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.24 g	10 mL	174079	08/24/21 18:32	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 01:59	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-5-9 2**

**Lab Sample ID: 570-67511-22**

**Date Collecte8: 01/M6/2MMM05**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MMD:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			7.104 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 14:49	A9VE	ECL 2
		Instrument ID: GC57								
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		1			175228	08/30/21 02:20	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-7.5-9 2**

**Lab Sample ID: 570-67511-2N**

**Date Collecte8: 01/M6/2MMM00**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MMD:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			6.613 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 15:13	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.27 g	10 mL	174079	08/24/21 18:32	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 02:42	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-M0-9 2**

**Lab Sample ID: 570-67511-24**

**Date Collecte8: 01/M6/2MMM05**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MMD:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			7.669 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 15:36	A9VE	ECL 2
		Instrument ID: GC57								
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		1			175228	08/30/21 03:48	N1A	ECL 1
		Instrument ID: GC48								

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# Lab Chronicle

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

Job ID: 570-67588-1

**Client Sample ID: S-M2.5-9 2**

**Lab Sample ID: 570-67511-25**

**Date Collecte8: 01/M6/2MMM20**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MM0:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			7.519 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 15:59	A9VE	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	174079	08/24/21 18:32	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 04:10	N1A	ECL 1
Instrument ID: GC48										

**Client Sample ID: S-M6-PN**

**Lab Sample ID: 570-67511-26**

**Date Collecte8: 01/M6/2MM0:25**

**x atrid: Soli8**

**Date 3 eceive8: 01/M7/2MM0:M0**

Prep Type	Batch Type	Batch x etho8	3 sn	Dil zactor	Initial Rmosnt	zinal Rmosnt	Batch Fsmber	Prepare8 or Rnalyue8	RnalyAt	Lab
Total/NA	Prep	5035			4.038 g	5 g	172545	08/18/21 19:04	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	174789	08/27/21 16:23	A9VE	ECL 2
Instrument ID: GC57										
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		1			175228	08/30/21 04:31	N1A	ECL 1
Instrument ID: GC48										

## Laboratory 3 eferenceA:

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  
1 roPctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67588-4

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	/ tate	C946-48	40-44-24

- 1
- 2
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# Method Summary

2 10 e 2 ntai or li d

, tot de p @ : / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67599-4

Method	Method Description	Protocol	Laboratory
3 N W T-HS	3 oteChl we- sohe3 , I do1 Vu , toaVdevrh12(	3 N W T	/ 2 ) L
3 N W T-DS	3 oteChl we- j l u Gsohe3 , I do1 Vu , toaVdevrh12(	3 N W T	/ 2 ) 4
M502 j H2	8 tinwoi @ / Sander@i	j N 9A6	/ 2 ) 4
50M5	2 bw a j Uve u , Vtyl ni a Wng	j N 9A6	/ 2 ) L

## Protocol References:

3 N W T p 3 oteChl weVden1, I do1 Vu TLatodntboi

j N 9A6 p =VweEl @baw" ot / FnVneCy j o1a Nnwe r , GUCh 12 G u @n1El @bawr WCa / a@oi r 3 oFl u bl t 4v96 xi a lew8 gané w

## Laboratory References:

/ 2 ) 4 p / VtofCw2n1wdCi dl ))2 ) Cdo1 r 7AA0 ) Cdo1 N nUr Hntal i HtoFl r 2 x vL9A4r W ) n74A(9v5-5AvA

/ 2 ) L p / VtofCw2n1wdCi dl ))2 ) nu gwoi r 7AA5 ) nu gwoi xFl r Hntal i HtoFl r 2 x vL9A4r W ) n74A(9v5-5AvA

/ VtofCw2n1wdCi dl ))2

**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. < <

\* 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) 894-7601

<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 8/14/2021  
PAGE 1 OF 2

<b>ExxonMobil Engr</b>	Jennifer Sedlachek
------------------------	--------------------

<b>LABORATORY CLIENT</b> <b>Cardno</b> 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 5 DAYS 10 DAYS <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 type="checkbox"/> 10 DAYS 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. Include % Moisture in report for dry weight correction. Report to: laina.coie@cardno.com, robert.thompson@cardno.com All units in mg/kg. Report to: laina.coie@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com		<b>GLOBAL ID # COELT LOG CODE</b> P O 0314476040 Agreement# A2604415																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<b>PROJECT CONTACT</b> Robert Thompson SAMPLER(S): Paul Prevou, John Considine		<b>LAB USE ONLY</b> COOLER RECEIPT Temp: 20°C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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<table border="1"><thead><tr><th rowspan="2">LAB USE ONLY</th><th rowspan="2">SAMPLE ID</th><th rowspan="2">Field Point Name</th><th colspan="2">SAMPLING</th><th rowspan="2">MAT. RIX</th><th rowspan="2">NO. OF CONT</th></tr><tr><th>DATE</th><th>TIME</th></tr></thead><tbody><tr><td>1</td><td>S-2.5-A8</td><td>A8</td><td>8/16/2021</td><td>0750</td><td>S</td><td>4</td></tr><tr><td>2</td><td>S-5-A8</td><td>A8</td><td>8/16/2021</td><td>0805</td><td>S</td><td>4</td></tr><tr><td>3</td><td>S-10-A8</td><td>A8</td><td>8/16/2021</td><td>0810</td><td>S</td><td>4</td></tr><tr><td>4</td><td>S-12.5-A8</td><td>A8</td><td>8/16/2021</td><td>0815</td><td>S</td><td>4</td></tr><tr><td>5</td><td>S-14.5-A8</td><td>A8</td><td>8/16/2021</td><td>0820</td><td>S</td><td>4</td></tr><tr><td>6</td><td>S-16.5-A8</td><td>A8</td><td>8/16/2021</td><td>0825</td><td>S</td><td>4</td></tr><tr><td>7</td><td>S-18.5-A8</td><td>A8</td><td>8/16/2021</td><td>0830</td><td>S</td><td>4</td></tr><tr><td>8</td><td>S-20.5-A8</td><td>A8</td><td>8/16/2021</td><td>0835</td><td>S</td><td>4</td></tr><tr><td>9</td><td>S-22.5-A8</td><td>A8</td><td>8/16/2021</td><td>0840</td><td>S</td><td>4</td></tr><tr><td>10</td><td>S-24.5-A8</td><td>A8</td><td>8/16/2021</td><td>0845</td><td>S</td><td>4</td></tr><tr><td>11</td><td>S-26.5-A8</td><td>A8</td><td>8/16/2021</td><td>0850</td><td>S</td><td>4</td></tr><tr><td>12</td><td>S-28.5-A8</td><td>A8</td><td>8/16/2021</td><td>0855</td><td>S</td><td>4</td></tr><tr><td>13</td><td>S-30.5-A8</td><td>A8</td><td>8/16/2021</td><td>0900</td><td>S</td><td>4</td></tr><tr><td>14</td><td>S-32.5-A8</td><td>A8</td><td>8/16/2021</td><td>0905</td><td>S</td><td>4</td></tr><tr><td>15</td><td>S-34.5-A8</td><td>A8</td><td>8/16/2021</td><td>0910</td><td>S</td><td>4</td></tr><tr><td>16</td><td>S-36.5-A8</td><td>A8</td><td>8/16/2021</td><td>0915</td><td>S</td><td>4</td></tr><tr><td>17</td><td>S-38.5-A8</td><td>A8</td><td>8/16/2021</td><td>0920</td><td>S</td><td>4</td></tr><tr><td>18</td><td>S-40.5-A8</td><td>A8</td><td>8/16/2021</td><td>0925</td><td>S</td><td>4</td></tr><tr><td>19</td><td>S-42.5-A8</td><td>A8</td><td>8/16/2021</td><td>0930</td><td>S</td><td>4</td></tr><tr><td>20</td><td>S-44.5-A8</td><td>A8</td><td>8/16/2021</td><td>0935</td><td>S</td><td>4</td></tr><tr><td>21</td><td>S-46.5-A8</td><td>A8</td><td>8/16/2021</td><td>0940</td><td>S</td><td>4</td></tr><tr><td>22</td><td>S-48.5-A8</td><td>A8</td><td>8/16/2021</td><td>0945</td><td>S</td><td>4</td></tr><tr><td>23</td><td>S-50.5-A8</td><td>A8</td><td>8/16/2021</td><td>0950</td><td>S</td><td>4</td></tr><tr><td>24</td><td>S-52.5-A8</td><td>A8</td><td>8/16/2021</td><td>0955</td><td>S</td><td>4</td></tr><tr><td>25</td><td>S-54.5-A8</td><td>A8</td><td>8/16/2021</td><td>1000</td><td>S</td><td>4</td></tr><tr><td>26</td><td>S-56.5-A8</td><td>A8</td><td>8/16/2021</td><td>1005</td><td>S</td><td>4</td></tr><tr><td>27</td><td>S-58.5-A8</td><td>A8</td><td>8/16/2021</td><td>1010</td><td>S</td><td>4</td></tr><tr><td>28</td><td>S-60.5-A8</td><td>A8</td><td>8/16/2021</td><td>1015</td><td>S</td><td>4</td></tr><tr><td>29</td><td>S-62.5-A8</td><td>A8</td><td>8/16/2021</td><td>1020</td><td>S</td><td>4</td></tr><tr><td>30</td><td>S-64.5-A8</td><td>A8</td><td>8/16/2021</td><td>1025</td><td>S</td><td>4</td></tr><tr><td>31</td><td>S-66.5-A8</td><td>A8</td><td>8/16/2021</td><td>1030</td><td>S</td><td>4</td></tr><tr><td>32</td><td>S-68.5-A8</td><td>A8</td><td>8/16/2021</td><td>1035</td><td>S</td><td>4</td></tr><tr><td>33</td><td>S-70.5-A8</td><td>A8</td><td>8/16/2021</td><td>1040</td><td>S</td><td>4</td></tr><tr><td>34</td><td>S-72.5-A8</td><td>A8</td><td>8/16/2021</td><td>1045</td><td>S</td><td>4</td></tr><tr><td>35</td><td>S-74.5-A8</td><td>A8</td><td>8/16/2021</td><td>1050</td><td>S</td><td>4</td></tr><tr><td>36</td><td>S-76.5-A8</td><td>A8</td><td>8/16/2021</td><td>1055</td><td>S</td><td>4</td></tr><tr><td>37</td><td>S-78.5-A8</td><td>A8</td><td>8/16/2021</td><td>1100</td><td>S</td><td>4</td></tr><tr><td>38</td><td>S-80.5-A8</td><td>A8</td><td>8/16/2021</td><td>1105</td><td>S</td><td>4</td></tr><tr><td>39</td><td>S-82.5-A8</td><td>A8</td><td>8/16/2021</td><td>1110</td><td>S</td><td>4</td></tr><tr><td>40</td><td>S-84.5-A8</td><td>A8</td><td>8/16/2021</td><td>1115</td><td>S</td><td>4</td></tr><tr><td>41</td><td>S-86.5-A8</td><td>A8</td><td>8/16/2021</td><td>1120</td><td>S</td><td>4</td></tr><tr><td>42</td><td>S-88.5-A8</td><td>A8</td><td>8/16/2021</td><td>1125</td><td>S</td><td>4</td></tr><tr><td>43</td><td>S-90.5-A8</td><td>A8</td><td>8/16/2021</td><td>1130</td><td>S</td><td>4</td></tr><tr><td>44</td><td>S-92.5-A8</td><td>A8</td><td>8/16/2021</td><td>1135</td><td>S</td><td>4</td></tr><tr><td>45</td><td>S-94.5-A8</td><td>A8</td><td>8/16/2021</td><td>1140</td><td>S</td><td>4</td></tr><tr><td>46</td><td>S-96.5-A8</td><td>A8</td><td>8/16/2021</td><td>1145</td><td>S</td><td>4</td></tr><tr><td>47</td><td>S-98.5-A8</td><td>A8</td><td>8/16/2021</td><td>1150</td><td>S</td><td>4</td></tr><tr><td>48</td><td>S-100.5-A8</td><td>A8</td><td>8/16/2021</td><td>1155</td><td>S</td><td>4</td></tr><tr><td>49</td><td>S-102.5-A8</td><td>A8</td><td>8/16/2021</td><td>1200</td><td>S</td><td>4</td></tr><tr><td>50</td><td>S-104.5-A8</td><td>A8</td><td>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USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT. 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CONT	DATE	TIME	1	S-2.5-A8	A8	8/16/2021	0750	S	4	2	S-5-A8	A8	8/16/2021	0805	S	4	3	S-10-A8	A8	8/16/2021	0810	S	4	4	S-12.5-A8	A8	8/16/2021	0815	S	4	5	S-14.5-A8	A8	8/16/2021	0820	S	4	6	S-16.5-A8	A8	8/16/2021	0825	S	4	7	S-18.5-A8	A8	8/16/2021	0830	S	4	8	S-20.5-A8	A8	8/16/2021	0835	S	4	9	S-22.5-A8	A8	8/16/2021	0840	S	4	10	S-24.5-A8	A8	8/16/2021	0845	S	4	11	S-26.5-A8	A8	8/16/2021	0850	S	4	12	S-28.5-A8	A8	8/16/2021	0855	S	4	13	S-30.5-A8	A8	8/16/2021	0900	S	4	14	S-32.5-A8	A8	8/16/2021	0905	S	4	15	S-34.5-A8	A8	8/16/2021	0910	S	4	16	S-36.5-A8	A8	8/16/2021	0915	S	4	17	S-38.5-A8	A8	8/16/2021	0920	S	4	18	S-40.5-A8	A8	8/16/2021	0925	S	4	19	S-42.5-A8	A8	8/16/2021	0930	S	4	20	S-44.5-A8	A8	8/16/2021	0935	S	4	21	S-46.5-A8	A8	8/16/2021	0940	S	4	22	S-48.5-A8	A8	8/16/2021	0945	S	4	23	S-50.5-A8	A8	8/16/2021	0950	S	4	24	S-52.5-A8	A8	8/16/2021	0955	S	4	25	S-54.5-A8	A8	8/16/2021	1000	S	4	26	S-56.5-A8	A8	8/16/2021	1005	S	4	27	S-58.5-A8	A8	8/16/2021	1010	S	4	28	S-60.5-A8	A8	8/16/2021	1015	S	4	29	S-62.5-A8	A8	8/16/2021	1020	S	4	30	S-64.5-A8	A8	8/16/2021	1025	S	4	31	S-66.5-A8	A8	8/16/2021	1030	S	4	32	S-68.5-A8	A8	8/16/2021	1035	S	4	33	S-70.5-A8	A8	8/16/2021	1040	S	4	34	S-72.5-A8	A8	8/16/2021	1045	S	4	35	S-74.5-A8	A8	8/16/2021	1050	S	4	36	S-76.5-A8	A8	8/16/2021	1055	S	4	37	S-78.5-A8	A8	8/16/2021	1100	S	4	38	S-80.5-A8	A8	8/16/2021	1105	S	4	39	S-82.5-A8	A8	8/16/2021	1110	S	4	40	S-84.5-A8	A8	8/16/2021	1115	S	4	41	S-86.5-A8	A8	8/16/2021	1120	S	4	42	S-88.5-A8	A8	8/16/2021	1125	S	4	43	S-90.5-A8	A8	8/16/2021	1130	S	4	44	S-92.5-A8	A8	8/16/2021	1135	S	4	45	S-94.5-A8	A8	8/16/2021	1140	S	4	46	S-96.5-A8	A8	8/16/2021	1145	S	4	47	S-98.5-A8	A8	8/16/2021	1150	S	4	48	S-100.5-A8	A8	8/16/2021	1155	S	4	49	S-102.5-A8	A8	8/16/2021	1200	S	4	50	S-104.5-A8	A8	8/16/2021	1205	S	4	51	S-106.5-A8	A8	8/16/2021	1210	S	4	52	S-108.5-A8	A8	8/16/2021	1215	S	4	53	S-110.5-A8	A8	8/16/2021	1220	S	4	54	S-112.5-A8	A8	8/16/2021	1225	S	4	55	S-114.5-A8	A8	8/16/2021	1230	S	4	56	S-116.5-A8	A8	8/16/2021	1235	S	4	57	S-118.5-A8	A8	8/16/2021	1240	S	4	58	S-120.5-A8	A8	8/16/2021	1245	S	4	59	S-122.5-A8	A8	8/16/2021	1250	S	4	60	S-124.5-A8	A8	8/16/2021	1255	S	4	61	S-126.5-A8	A8	8/16/2021	1300	S	4	62	S-128.5-A8	A8	8/16/2021	1305	S	4	63	S-130.5-A8	A8	8/16/2021	1310	S	4	64	S-132.5-A8	A8	8/16/2021	1315	S	4	65	S-134.5-A8	A8	8/16/2021	1320	S	4	66	S-136.5-A8	A8	8/16/2021	1325	S	4	67	S-138.5-A8	A8	8/16/2021	1330	S	4	68	S-140.5-A8	A8	8/16/2021	1335	S	4	69	S-142.5-A8	A8	8/16/2021	1340	S	4	70	S-144.5-A8	A8	8/16/2021	1345	S	4	71	S-146.5-A8	A8	8/16/2021	1350	S	4	72	S-148.5-A8	A8	8/16/2021	1355	S	4	73	S-150.5-A8	A8	8/16/2021	1400	S	4	74	S-152.5-A8	A8	8/16/2021	1405	S	4	75	S-154.5-A8	A8	8/16/2021	1410	S	4	76	S-156.5-A8	A8	8/16/2021	1415	S	4	77	S-158.5-A8	A8	8/16/2021	1420	S	4	78	S-160.5-A8	A8	8/16/2021	1425	S	4	79	S-162.5-A8	A8	8/16/2021	1430	S	4	80	S-164.5-A8	A8	8/16/2021	1435	S	4	81	S-166.5-A8	A8	8/16/2021	1440	S	4	82	S-168.5-A8	A8	8/16/2021	1445	S	4	83	S-170.5-A8	A8	8/16/2021	1450	S	4	84	S-172.5-A8	A8	8/16/2021	1455	S	4	85	S-174.5-A8	A8	8/16/2021	1500	S	4	86	S-176.5-A8	A8	8/16/2021	1505	S	4	87	S-178.5-A8	A8	8/16/2021	1510	S	4	88	S-180.5-A8	A8	8/16/2021	1515	S	4	89	S-182.5-A8	A8	8/16/2021	1520	S	4	90	S-184.5-A8	A8	8/16/2021	1525	S	4	91	S-186.5-A8	A8	8/16/2021	1530	S	4	92	S-188.5-A8	A8	8/16/2021	1535	S	4	93	S-190.5-A8	A8	8/16/2021	1540	S	4	94	S-192.5-A8	A8	8/16/2021	1545	S	4	95	S-194.5-A8	A8	8/16/2021	1550	S	4	96	S-196.5-A8	A8	8/16/2021	1555	S	4	97	S-198.5-A8	A8	8/16/2021	1600	S	4	98	S-200.5-A8	A8	8/16/2021	1605	S	4	99	S-202.5-A8	A8	8/16/2021	1610	S	4	100	S-204.5-A8	A8	8/16/2021	1615	S	4	101	S-206.5-A8	A8	8/16/2021	1620	S	4	102	S-208.5-A8	A8	8/16/2021	1625	S	4	103	S-210.5-A8	A8	8/16/2021	1630	S	4	104	S-212.5-A8	A8	8/16/2021	1635	S	4	105	S-214.5-A8	A8	8/16/2021	1640	S	4	106	S-216.5-A8	A8	8/16/2021	1645	S	4	107	S-218.5-A8	A8	8/16/2021	1650	S	4	108	S-220.5-A8	A8	8/16/2021	1655	S	4	109	S-222.5-A8	A8	8/16/2021	1700	S	4	110	S-224.5-A8	A8	8/16/2021	1705	S	4	111	S-226.5-A8	A8	8/16/2021	1710	S	4	112	S-228.5-A8	A8	8/16/2021	1715	S	4	113	S-230.5-A8	A8	8/16/2021	1720	S	4	114	S-232.5-A8	A8	8/16/2021	1725	S	4	115	S-234.5-A8	A8	8/16/2021	1730	S	4	116	S-236.5-A8	A8	8/16/2021	1735	S	4	117	S-238.5-A8	A8	8/16/2021	1740	S	4	118	S-240.5-A8	A8	8/16/2021	1745	S	4	119	S-242.5-A8	A8	8/16/2021	1750	S	4	120	S-244.5-A8	A8	8/16/2021	1755	S	4	121	S-246.5-A8	A8	8/16/2021	1800	S	4	122	S-248.5-A8	A8	8/16/2021	1805	S	4	123	S-250.5-A8	A8	8/16/2021	1810	S	4	124	S-252.5-A8	A8	8/16/2021	1815	S	4	125	S-254.5-A8	A8	8/16/2021	1820	S	4	126	S-256.5-A8	A8	8/16/2021	1825	S	4	127	S-258.5-A8	A8	8/16/2021	1830	S	4	128	S-260.5-A8	A8	8/16/2021	1835	S	4	129	S-262.5-A8	A8	8/16/2021	1840	S	4	130	S-264.5-A8	A8	8/16/2021	1845	S	4	131	S-266.5-A8	A8	8/16/2021	1850	S	4	132	S-268.5-A8	A8	8/16/2021	1855	S	4	133	S-270.5-A8	A8	8/16/2021	1900	S	4	134	S-272.5-A8	A8	8/16/2021	1905	S	4	135	S-274.5-A8	A8	8/16/2021	1910	S	4	136	S-276.5-A8	A8	8/16/2021	1915	S	4	137	S-278.5-A8	A8	8/16/2021	1920	S	4	138	S-280.5-A8	A8	8/16/2021	1925	S	4	139	S-282.5-A8	A8	8/16/2021	1930	S	4	140	S-284.5-A8	A8	8/16/2021	1935	S	4	141	S-286.5-A8	A8	8/16/2021	1940	S	4	142	S-288.5-A8	A8	8/16/2021	1945	S	4	143	S-290.5-A8	A8	8/16/2021	1950	S	4	144	S-292.5-A8	A8	8/16/2021	1955	S	4	145	S-294.5-A8	A8	8/16/2021	2000	S	4	146	S-296.5-A8	A8	8/16/2021	2005	S	4	147	S-298.5-A8	A8	8/16/2021	2010	S	4	148	S-300.5-A8	A8	8/16/2021	2015	S	4	149	S-302.5-A8	A8	8/16/2021	2020	S	4	150	S-304.5-A8	A8	8/16/2021	2025	S	4	151	S-306.5-A8	A8	8/16/2021	2030	S	4	152	S-308.5-A8	A8	8/16/2021	2035	S	4	153	S-310.5-A8	A8	8/16/2021	2040	S	4	154	S-312.5-A8	A8	8/16/2021	2045	S	4	155	S-314.5-A8	A8	8/16/2021	2050	S	4	156	S-316.5-A8	A8	8/16/2021	2055	S	4	157	S-318.5-A8	A8	8/16/2021	2100	S	4	158	S-320.5-A8	A8	8/16/2021	2105	S	4	159	S-322.5-A8	A8	8/16/2021	2110	S	4	160	S-324.5-A8	A8	8/16/2021	2115	S	4	161	S-326.5-A8	A8	8/16/2021	2120	S	4	162	S-328.5-A8	A8	8/16/2021	2125	S	4	163	S-330.5-A8	A8	8/16/2021	2130	S	4	164	S-332.5-A8	A8	8/16/2021	2135	S	4	165	S-334.5-A8	A8	8/16/2021	2140	S	4	166	S-336.5-A8	A8	8/16/2021	2145	S	4	167	S-338.5-A8	A8	8/16/2021	2150	S	4	168	S-340.5-A8	A8	8/16/2021	2155	S	4	169	S-342.5-A8	A8	8/16/2021	2200	S	4	170	S-344.5-A8	A8	8/16/2021	2205	S	4	171	S-346.5-A8	A8	8/16/2021	2210	S	4	172	S-348.5-A8	A8	8/16/2021	2215	S	4	173	S-350.5-A8	A8	8/16/2021	2220	S	4	174	S-352.5-A8	A8	8/16/2021	2225	S	4	175	S-354.5-A8	A8	8/16/2021	2230	S	4	176	S-356.5-A8	A8	8/16/2021	2235	S	4	177	S-358.5-A8	A8	8/16/2021	2240
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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: 8/16/2021  
PAGE: 2 OF 2

ExxonMobil Engr Jennifer Sodiachek

LABORATORY CLIENT <b>Cardno</b> 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 <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input checked="" 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. 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 # COE LT LOG CODE. PROJECT CONTACT: Robert Thompson SAMPLER(S): Paul Prevou, John Considine		P O 0314476040 Agreement# A2604415 LAB USE ONLY COOLER RECEIPT Temp = 30°C	
Field Point Name		Perform MS/MSD		CONTAINER TYPE	
SAMPLE ID	SAMPLE DATE	TIME	NO. OF CONT	WVTPH-GX TPH as Gasoline	WVTPH-DX TPH as Diesel and Motor Oil
20 S-2.5-P3	8/16/2021	1015	4	X	X
S-5-P3	8/16/2021	1015	4	X	X
S-7.5-P3	8/16/2021	1015	4	X	X
S-10-P3	8/16/2021	1015	4	X	X
S-12.5-P3	8/16/2021	1015	4	X	X
S-2.5-Q2	8/16/2021	1100	4	X	X
S-5-Q2	8/16/2021	1100	4	X	X
S-7.5-Q2	8/16/2021	1100	4	X	X
S-10-Q2	8/16/2021	1100	4	X	X
S-12.5-Q2	8/16/2021	1100	4	X	X
S-2.5-P4	8/16/2021	1145	4	X	X
S-5-P4	8/16/2021	1145	4	X	X
S-7.5-P4	8/16/2021	1145	4	X	X
S-10-P4	8/16/2021	1145	4	X	X
S-12.5-P4	8/16/2021	1145	4	X	X
S-2.5-P5	8/16/2021	1200	4	X	X
S-5-P5	8/16/2021	1200	4	X	X
S-7.5-P5	8/16/2021	1200	4	X	X
S-10-P5	8/16/2021	1200	4	X	X
S-12.5-P5	8/16/2021	1200	4	X	X
S-2.5-P6	8/16/2021	1225	4	X	X
S-5-P6	8/16/2021	1225	4	X	X
S-7.5-P6	8/16/2021	1225	4	X	X
S-10-P6	8/16/2021	1225	4	X	X
S-12.5-P6	8/16/2021	1225	4	X	X
S-2.5-P7	8/16/2021	1225	4	X	X
S-5-P7	8/16/2021	1225	4	X	X
S-7.5-P7	8/16/2021	1225	4	X	X
S-10-P7	8/16/2021	1225	4	X	X
S-12.5-P7	8/16/2021	1225	4	X	X
S-2.5-P8	8/16/2021	1225	4	X	X
S-5-P8	8/16/2021	1225	4	X	X
S-7.5-P8	8/16/2021	1225	4	X	X
S-10-P8	8/16/2021	1225	4	X	X
S-12.5-P8	8/16/2021	1225	4	X	X
S-2.5-P9	8/16/2021	1225	4	X	X
S-5-P9	8/16/2021	1225	4	X	X
S-7.5-P9	8/16/2021	1225	4	X	X
S-10-P9	8/16/2021	1225	4	X	X
S-12.5-P9	8/16/2021	1225	4	X	X
S-2.5-P10	8/16/2021	1225	4	X	X
S-5-P10	8/16/2021	1225	4	X	X
S-7.5-P10	8/16/2021	1225	4	X	X
S-10-P10	8/16/2021	1225	4	X	X
S-12.5-P10	8/16/2021	1225	4	X	X
S-2.5-P11	8/16/2021	1225	4	X	X
S-5-P11	8/16/2021	1225	4	X	X
S-7.5-P11	8/16/2021	1225	4	X	X
S-10-P11	8/16/2021	1225	4	X	X
S-12.5-P11	8/16/2021	1225	4	X	X
S-2.5-P12	8/16/2021	1225	4	X	X
S-5-P12	8/16/2021	1225	4	X	X
S-7.5-P12	8/16/2021	1225	4	X	X
S-10-P12	8/16/2021	1225	4	X	X
S-12.5-P12	8/16/2021	1225	4	X	X
S-2.5-P13	8/16/2021	1225	4	X	X
S-5-P13	8/16/2021	1225	4	X	X
S-7.5-P13	8/16/2021	1225	4	X	X
S-10-P13	8/16/2021	1225	4	X	X
S-12.5-P13	8/16/2021	1225	4	X	X
S-2.5-P14	8/16/2021	1225	4	X	X
S-5-P14	8/16/2021	1225	4	X	X
S-7.5-P14	8/16/2021	1225	4	X	X
S-10-P14	8/16/2021	1225	4	X	X
S-12.5-P14	8/16/2021	1225	4	X	X
S-2.5-P15	8/16/2021	1225	4	X	X
S-5-P15	8/16/2021	1225	4	X	X
S-7.5-P15	8/16/2021	1225	4	X	X
S-10-P15	8/16/2021	1225	4	X	X
S-12.5-P15	8/16/2021	1225	4	X	X
S-2.5-P16	8/16/2021	1225	4	X	X
S-5-P16	8/16/2021	1225	4	X	X
S-7.5-P16	8/16/2021	1225	4	X	X
S-10-P16	8/16/2021	1225	4	X	X
S-12.5-P16	8/16/2021	1225	4	X	X
S-2.5-P17	8/16/2021	1225	4	X	X
S-5-P17	8/16/2021	1225	4	X	X
S-7.5-P17	8/16/2021	1225	4	X	X
S-10-P17	8/16/2021	1225	4	X	X
S-12.5-P17	8/16/2021	1225	4	X	X
S-2.5-P18	8/16/2021	1225	4	X	X
S-5-P18	8/16/2021	1225	4	X	X
S-7.5-P18	8/16/2021	1225	4	X	X
S-10-P18	8/16/2021	1225	4	X	X
S-12.5-P18	8/16/2021	1225	4	X	X
S-2.5-P19	8/16/2021	1225	4	X	X
S-5-P19	8/16/2021	1225	4	X	X
S-7.5-P19	8/16/2021	1225	4	X	X
S-10-P19	8/16/2021	1225	4	X	X
S-12.5-P19	8/16/2021	1225	4	X	X
S-2.5-P20	8/16/2021	1225	4	X	X
S-5-P20	8/16/2021	1225	4	X	X
S-7.5-P20	8/16/2021	1225	4	X	X
S-10-P20	8/16/2021	1225	4	X	X
S-12.5-P20	8/16/2021	1225	4	X	X
S-2.5-P21	8/16/2021	1225	4	X	X
S-5-P21	8/16/2021	1225	4	X	X
S-7.5-P21	8/16/2021	1225	4	X	X
S-10-P21	8/16/2021	1225	4	X	X
S-12.5-P21	8/16/2021	1225	4	X	X
S-2.5-P22	8/16/2021	1225	4	X	X
S-5-P22	8/16/2021	1225	4	X	X
S-7.5-P22	8/16/2021	1225	4	X	X
S-10-P22	8/16/2021	1225	4	X	X
S-12.5-P22	8/16/2021	1225	4	X	X
S-2.5-P23	8/16/2021	1225	4	X	X
S-5-P23	8/16/2021	1225	4	X	X
S-7.5-P23	8/16/2021	1225	4	X	X
S-10-P23	8/16/2021	1225	4	X	X
S-12.5-P23	8/16/2021	1225	4	X	X
S-2.5-P24	8/16/2021	1225	4	X	X
S-5-P24	8/16/2021	1225	4	X	X
S-7.5-P24	8/16/2021	1225	4	X	X
S-10-P24	8/16/2021	1225	4	X	X
S-12.5-P24	8/16/2021	1225	4	X	X
S-2.5-P25	8/16/2021	1225	4	X	X
S-5-P25	8/16/2021	1225	4	X	X
S-7.5-P25	8/16/2021	1225	4	X	X
S-10-P25	8/16/2021	1225	4	X	X
S-12.5-P25	8/16/2021	1225	4	X	X
S-2.5-P26	8/16/2021	1225	4	X	X
S-5-P26	8/16/2021	1225	4	X	X
S-7.5-P26	8/16/2021	1225	4	X	X
S-10-P26	8/16/2021	1225	4	X	X
S-12.5-P26	8/16/2021	1225	4	X	X
S-2.5-P27	8/16/2021	1225	4	X	X
S-5-P27	8/16/2021	1225	4	X	X
S-7.5-P27	8/16/2021	1225	4	X	X
S-10-P27	8/16/2021	1225	4	X	X
S-12.5-P27	8/16/2021	1225	4	X	X
S-2.5-P28	8/16/2021	1225	4	X	X
S-5-P28	8/16/2021	1225	4	X	X
S-7.5-P28	8/16/2021	1225	4	X	X
S-10-P28	8/16/2021	1225	4	X	X
S-12.5-P28	8/16/2021	1225	4	X	X
S-2.5-P29	8/16/2021	1225	4	X	X
S-5-P29	8/16/2021	1225	4	X	X
S-7.5-P29	8/16/2021	1225	4	X	X
S-10-P29	8/16/2021	1225	4	X	X
S-12.5-P29	8/16/2021	1225	4	X	X
S-2.5-P30	8/16/2021	1225	4	X	X
S-5-P30	8/16/2021	1225	4	X	X
S-7.5-P30	8/16/2021	1225	4	X	X
S-10-P30	8/16/2021	1225	4	X	X
S-12.5-P30	8/16/2021	1225	4	X	X
S-2.5-P31	8/16/2021	1225	4	X	X
S-5-P31	8/16/2021	1225	4	X	X
S-7.5-P31	8/16/2021	1225	4	X	X
S-10-P31	8/16/2021	1225	4	X	X
S-12.5-P31	8/16/2021	1225	4	X	X
S-2.5-P32	8/16/2021	1225	4	X	X
S-5-P32	8/16/2021	1225	4	X	X
S-7.5-P32	8/16/2021	1225	4	X	X
S-10-P32	8/16/2021	1225	4	X	X
S-12.5-P32	8/16/2021	1225	4	X	X
S-2.5-P33	8/16/2021	1225	4	X	X
S-5-P33	8/16/2021	1225	4	X	X
S-7.5-P33	8/16/2021	1225	4	X	X
S-10-P33	8/16/2021	1225	4	X	X
S-12.5-P33	8/16/2021	1225	4	X	X
S-2.5-P34	8/16/2021	1225	4	X	X
S-5-P34	8/16/2021	1225	4	X	X
S-7.5-P34	8/16/2021	1225	4	X	X
S-10-P34	8/16/2021	1225	4	X	X
S-12.5-P34	8/16/2021	1225	4	X	X
S-2.5-P35	8/16/2021	1225	4	X	X
S-5-P35	8/16/2021	1225	4	X	X
S-7.5-P35	8/16/2021	1225	4	X	X
S-10-P35	8/16/2021	1225	4	X	X
S-12.5-P35	8/16/2021	1225	4	X	X
S-2.5-P36	8/16/2021	1225	4	X	X
S-5-P36	8/16/2021	1225	4	X	X
S-7.5-P36	8/16/2021	1225	4	X	X
S-10-P36	8/16/2021	1225	4	X	X
S-12.5-P36	8/16/2021	1225	4	X	X
S-2.5-P37	8/16/2021	1225	4	X	X
S-5-P37	8/16/2021	1225	4	X	X
S-7.5-P37	8/16/2021	1225	4	X	X
S-10-P37	8/16/2021	1225	4	X	X
S-12.5-P37	8/16/2021	1225	4	X	X
S-2.5-P38	8/16/2021	1225	4	X	X
S-5-P38	8/16/2021	1225	4	X	X
S-7.5-P38	8/16/2021	1225	4	X	X
S-10-P38	8/16/2021	1225	4	X	X
S-12.5-P38	8/16/2021	1225	4	X	X
S-2.5-P39	8/16/2021	1225	4	X	X
S-5-P39	8/16/2021	1225	4	X	X
S-7.5-P39	8/16/2021	1225	4	X	X
S-10-P39	8/16/2021	1225	4	X	X
S-12.5-P39	8/16/2021	1225	4	X	X
S-2.5-P40	8/16/2021	1225	4	X	X
S-5-P40	8/16/2021	1225	4	X	X
S-7.5-P40	8/16/2021	1225	4	X	X
S-10-P40	8/16/2021	1225	4	X	X
S-12.5-P40	8/16/2021	1225	4	X	X
S-2.5-P41	8/16/2021	1225	4	X	X
S-5-P41	8/16/2021	1225	4	X	X
S-7.5-P41	8/16/2021	1225	4	X	X
S-10-P41	8/16/2021	1225	4	X	X
S-12.5-P41	8/16/2021	1225	4	X	X
S-2.5-P42	8/16/2021	1225	4	X	X
S-5-P42	8/16/2021	1225	4	X	X
S-7.5-P42	8/16/2021	1225	4	X	X
S-10-P42	8/16/2021	1225	4	X	X
S-12.5-P42	8/16/2021	1225	4	X	X
S-2.5-P43	8/16/2021	1225	4	X	X
S-5-P43	8/16/2021	1225	4	X	X
S-7.5-P43	8/16/2021	1225	4	X	X
S-10-P43	8/16/2021	1225	4	X	X
S-12.5-P43	8/16/2021	1225	4	X	X
S-2.5-P44	8/16/2021	1225	4	X	X
S					

ORIGIN ID:SEAA (281) 389-7025

GHD  
9225 3RD AVE NE  
SUITE 204  
SEATTLE, WA 98115  
UNITED STATES US

SHIP DAT  
ACTVAT:  
CRO: 699  
DIMS: 19  
BILL RECIPIENT

4159  
08.17

Part # 15629

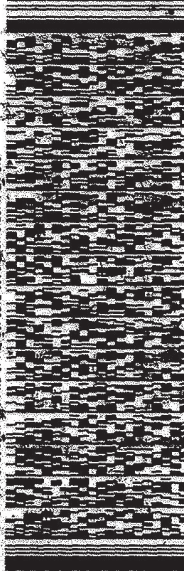
EUROFINS CALSCIENCE INC  
7440 LINCOLN WAY

GARDEN GROVE CA 92841

(714) 892-5628  
REF: 1  
DEPT: 1

570-67588 Waybill

FedEx  
Express



TUE - 17 AUG 10:30A  
PRIORITY OVERNIGHT

TRK# 2826 2937 4159

0201

AHS  
92841  
CA-US SNA

92 APVA



## Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67588-1

Login Number: 67588

List Number: 1

Creator: Ramos, Maribel

List Source: Eurofins Calscience LLC

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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?



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[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

2 10 e 2 nta i or li d  
, tot d e j @ : / SSoi E obGx D2 P049M70M0

Job ID: 570-67694-9

## Client Sample ID: S-2.5-N1

## Lab Sample ID: 570-67613-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M294G	0(N6		0() 0	. nfgm	9	A	KW3, nHS	3oenPKx
3, nT DCTI 1Oni ml	94		5(7	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru

## Client Sample ID: S-5-N1

## Lab Sample ID: 570-67613-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M294G	740		7M	. nfgm	) 50	A	KW3, nHS	3oenPKx
3, nT DCTI 1Oni ml	960		7(9	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru
3, nTE oet p GOni ml	9M0		7(9	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru

## Client Sample ID: S-10-N1

## Lab Sample ID: 570-67613-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M294G	9(N		0() 9	. nfgm	9	A	KW3, nHS	3oenPKx
3, nT DCTI 1Oni ml	9M		6(5	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru
3, nTE oet p GOni ml	94		6(5	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru

## Client Sample ID: S-12.5-N1

## Lab Sample ID: 570-67613-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT DCTI 1Oni ml	95		6()	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru
3, nTE oet p GOni ml	99		6()	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru

## Client Sample ID: S-2.5-M2

## Lab Sample ID: 570-67613-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M294G	0(86		0() 0	. nfgm	9	A	KW3, nHS	3oenPKx
3, nT DCTI 1Oni ml	960		5(7	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru
3, nTE oet p GOni ml	) 4		5(7	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru

## Client Sample ID: S-5-M2

## Lab Sample ID: 570-67613-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M294G	980		M)	. nfgm	900	A	KW3, nHS	3oenPKx
3, nT DCTI 1Oni ml	9600		95	. nfgm	)	A	KW3, nDS	j Qdn HI 1 21 ni Ru
3, nTE oet p GOni ml	650		95	. nfgm	)	A	KW3, nDS	j Qdn HI 1 21 ni Ru

## Client Sample ID: S-7.5-M2

## Lab Sample ID: 570-67613-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M294G	5(9		0(M6	. nfgm	9	A	KW3, nHS	3oenPKx
3, nT DCTI 1Oni ml	) 70		90	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru
3, nTE oet p GOni ml	M50		90	. nfgm	9	A	KW3, nDS	j Qdn HI 1 21 ni Ru

3hCT DI 4 d e i j R . nty aol Ti oeCdPal tnaQdhl . Qn14 Tetl TR4(

/ RtofCT 2 nTdCi dl LL2

# Detection Summary

2 10 e 2 nta i or li d  
, tot de j @ : / SSoi E obGx D2 P049M70M0

Job ID: 570-67694-9

## Client Sample ID: S-10-M2

## Lab Sample ID: 570-67613-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, ☼nTHnToDI ☼M294G	N8		M7	. nfgm	900	A	KW3, ☼HS	3oanFKx
3, ☼nTDCTI 1Oni ml	870		8(6	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru
3, ☼nTEoet p GOni ml	M0		8(6	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru

## Client Sample ID: S-12.5-M2

## Lab Sample ID: 570-67613-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, ☼nTHnToDI ☼M294G	0(MN		0() M	. nfgm	9	A	KW3, ☼HS	3oanFKx
3, ☼nTDCTI 1Oni ml	97		6(9	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru
3, ☼nTEoet p GOni ml	9N		6(9	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru

## Client Sample ID: S-2.5-L1

## Lab Sample ID: 570-67613-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, ☼nTHnToDI ☼M294G	0(M		0() 4	. nfgm	9	A	KW3, ☼HS	3oanFKx
3, ☼nTDCTI 1Oni ml	96		6()	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru
3, ☼nTEoet p GOni ml	N6		6()	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru

## Client Sample ID: S-5-L1

## Lab Sample ID: 570-67613-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, ☼nTHnToDI ☼M294G	) 90		56	. nfgm	) 50	A	KW3, ☼HS	3oanFKx
3, ☼nTDCTI 1Oni ml	660		6(M	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru
3, ☼nTEoet p GOni ml	4N0		6(M	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru

## Client Sample ID: S-7.5-L1

## Lab Sample ID: 570-67613-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, ☼nTHnToDI ☼M294G	9(4		0(85	. nfgm	9	A	KW3, ☼HS	3oanFKx
3, ☼nTDCTI 1Oni ml	45		96	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru
3, ☼nTEoet p GOni ml	58		96	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru

## Client Sample ID: S-10-L1

## Lab Sample ID: 570-67613-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, ☼nTHnToDI ☼M294G	M8		0() M	. nfgm	9	A	KW3, ☼HS	3oanFKx
3, ☼nTDCTI 1Oni ml	NM		6(7	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru
3, ☼nTEoet p GOni ml	59		6(7	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru

## Client Sample ID: S-12.5-L1

## Lab Sample ID: 570-67613-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, ☼nTHnToDI ☼M294G	0(50		0() 8	. nfgm	9	A	KW3, ☼HS	3oanFKx
3, ☼nTDCTI 1Oni ml	9)		7(4	. nfgm	9	A	KW3, ☼DS	j Qan HI 1 2 1 ni Ru

3hCT DI d deCi j R . nty aol Ti oeCdPal tnaQdhl . Qn1d Tetl TRd(

/ RtofCT 2n1TdCi dl LL2



# Detection Summary

2 10 e 2 ntai or li d  
, tot ddf @ : / SSoi E obGx D2 P049M70M0

Job ID: 570-67694-9

## 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
3, nTE oet p GOni ml	N5		7(4	. nfgm	9	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-2.5-K2

## Lab Sample ID: 570-67613-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2 M294G	M60		56	. nfgm	) 50	A	KW3, nHS	3oenPKx
3, nTDCTI 1Oni ml - DL	5900		6)	. nfgm	90	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru
3, nTE oet p GOni ml - DL	M00		6)	. nfgm	90	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-5-K2

## Lab Sample ID: 570-67613-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2 M294G	9900		990	. nfgm	500	A	KW3, nHS	3oenPKx
3, nTDCTI 1Oni ml - DL	9M00		5N	. nfgm	90	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru
3, nTE oet p GOni ml - DL	M80		5N	. nfgm	90	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-7.5-K2

## Lab Sample ID: 570-67613-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2 M294G	9(4		0()	. nfgm	9	A	KW3, nHS	3oenPKx
3, nTDCTI 1Oni ml	98		6(9	. nfgm	9	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru
3, nTE oet p GOni ml	95		6(9	. nfgm	9	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-10-K2

## Lab Sample ID: 570-67613-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2 M294G	M)		0()	. nfgm	9	A	KW3, nHS	3oenPKx
3, nTDCTI 1Oni ml	4M		6(5	. nfgm	9	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru
3, nTE oet p GOni ml	97		6(5	. nfgm	9	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-12.5-K2

## Lab Sample ID: 570-67613-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2 M294G	5N0		78	. nfgm	) 50	A	KW3, nHS	3oenPKx
3, nTE oet p GOni ml	9)		N5	. nfgm	9	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-2.5-M4

## Lab Sample ID: 570-67613-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTDCTI 1Oni ml - DL	94000		) N0	. nfgm	50	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru
3, nTE oet p GOni ml - DL	) ) 00		) N0	. nfgm	50	A	KW3, nDS	j Qdn HI 1 2 1 ni Ru

3hCT DI d dcoi j R . nty aol Ti oeCdPal tnaQdhl . Qn1d Tetl TRd

/ RtofCT 2 nTdCi dl LL2

# Detection Summary

2 10 e 2 nta i or li d  
, tot d d @ : / SSoi E obGx D2 P049M70M0

Job ID: 570-67694-9

## Client Sample ID: S-5-M4

## Lab Sample ID: 570-67613-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M294G	9900		9)0	. nfgm	500	A	KW3, HS	3oenPKx
3, nTDCTI 1Oni ml	7800		)8	. nfgm	5	A	KW3, DS	j Qdn HI 1 2 1 ni Ru
3, nTEoet p GOni ml	9M00		)8	. nfgm	5	A	KW3, DS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-7.5-M4

## Lab Sample ID: 570-67613-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTDCTI 1Oni ml	5500		9)0	. nfgm	90	A	KW3, DS	j Qdn HI 1 2 1 ni Ru
3, nTEoet p GOni ml	7400		9)0	. nfgm	90	A	KW3, DS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-10-M4

## Lab Sample ID: 570-67613-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M294G	6)0		79	. nfgm	)50	A	KW3, HS	3oenPKx
3, nTEoet p GOni ml	94		6(8	. nfgm	9	A	KW3, DS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-12.5-M4

## Lab Sample ID: 570-67613-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M294G	9(0		0(N6	. nfgm	9	A	KW3, HS	3oenPKx
3, nTEoet p GOni ml	5N		95	. nfgm	9	A	KW3, DS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-2.5-L3

## Lab Sample ID: 570-67613-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M294G	9(M		0(4M	. nfgm	9	A	KW3, HS	3oenPKx
3, nTDCTI 1Oni ml	N600		)8	. nfgm	5	A	KW3, DS	j Qdn HI 1 2 1 ni Ru
3, nTEoet p GOni ml	)500		)8	. nfgm	5	A	KW3, DS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-5-L3

## Lab Sample ID: 570-67613-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTDCTI 1Oni ml - DL	7000		6M	. nfgm	90	A	KW3, DS	j Qdn HI 1 2 1 ni Ru
3, nTEoet p GOni ml - DL	)600		6M	. nfgm	90	A	KW3, DS	j Qdn HI 1 2 1 ni Ru

## Client Sample ID: S-7.5-L3

## Lab Sample ID: 570-67613-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M294G	0(4M		0(44	. nfgm	9	A	KW3, HS	3oenPKx
3, nTDCTI 1Oni ml	970		6(7	. nfgm	9	A	KW3, DS	j Qdn HI 1 2 1 ni Ru
3, nTEoet p GOni ml	460		6(7	. nfgm	9	A	KW3, DS	j Qdn HI 1 2 1 ni Ru

3hCT DI d d d i j R . nty aol Ti oeCdPal tnaQdhl . Qn1d Tetl TRd(

/ RtofCT 2nTdCi dl LL2

## Detection Summary

2 10 e 2 ntai or li d

, tot d e j @ : / SSoi E obGx D2 P049MM70M0

Job ID: 570-67694-9

### Client Sample ID: S-10-L3

### Lab Sample ID: 570-67613-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, 5nTHnToDI 2M294G	) 90		58	. nfgm	) 50	A	KW3, 5HS	3oenTKx
3, 5nTDCTI 1Oni ml	9)		6(M	. nfgm	9	A	KW3, 5DS	j 55n HI 1 2 1 ni Ru
3, 5nTE oet p 5Oni ml	990		6(M	. nfgm	9	A	KW3, 5DS	j 55n HI 1 2 1 ni Ru

### Client Sample ID: S-12.5-L3

### Lab Sample ID: 570-67613-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, 5nTE oet p 5Oni ml	9M0		94	. nfgm	9	A	KW3, 5DS	j 55n HI 1 2 1 ni Ru

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 012337030

Job ID: 570-67621-2

**Client Sample ID: S-2.5-N1**

**Date Collected: 08/17/21 10:35**

**Date Received: 08/18/21 10:15**

**Lab Sample ID: 570-67613-1**

**Matrix: Solid**

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	0.86		04n0	g K/K	8	0. /2T/n2 2. :26	0. /12/n2 2m3.	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150			06/12/31 16:17	06/01/31 13:46	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	13		547	g K/K	8	0. /n8/n2 2. :23	0. /m1/n2 23:56	2
HPs aRMotor Nil 9 anKe	OD		547	g K/K	8	0. /n8/n2 2. :23	0. /m1/n2 23:56	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	27		50 - 150			06/34/31 16:14	06/32/31 14:57	1

**Client Sample ID: S-5-N1**

**Date Collected: 08/17/21 10:40**

**Date Received: 08/18/21 10:15**

**Lab Sample ID: 570-67613-2**

**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)	730		73	g K/K	8	0. /2T/n2 2. :26	0. /m /n2 21:5T	m60
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		50 - 150			06/12/31 16:17	06/36/31 1Q52	350

## Method: NWTPH-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		742	g K/K	8	0. /n8/n2 2. :23	0. /m1/n2 25:26	2
TPH as Motor Oil Range	140		742	g K/K	8	0. /n8/n2 2. :23	0. /m1/n2 25:26	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	28		50 - 150			06/34/31 16:14	06/32/31 15:17	1

**Client Sample ID: S-10-N1**

**Date Collected: 08/17/21 10:45**

**Date Received: 08/18/21 10:15**

**Lab Sample ID: 570-67613-3**

**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)	1.8		04n2	g K/K	8	0. /2T/n2 2. :26	0. /m /n2 21:06	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			06/12/31 16:17	06/36/31 1Q07	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		645	g K/K	8	0. /n8/n2 2. :23	0. /m1/n2 25:16	2
TPH as Motor Oil Range	13		645	g K/K	8	0. /n8/n2 2. :23	0. /m1/n2 25:16	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	21		50 - 150			06/34/31 16:14	06/32/31 15:07	1

EurofinRCalRcience LLC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 012337030

Job ID: 570-67621-2

**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
HPs aRGaBline (C3-C21)	OD		04m	g K/K	8	0. /2T/m2 2. :26	0. /m /m2 21:mT	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	CO	S1-	50 - 150			06/12/31 16:17	06/36/31 1Q32	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		64m	g K/K	8	0. /n8/m2 2. :23	0. /mT/m2 25:55	2
TPH as Motor Oil Range	11		64m	g K/K	8	0. /n8/m2 2. :23	0. /mT/m2 25:55	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	21		50 - 150			06/34/31 16:14	06/32/31 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		04m0	g K/K	8	0. /2T/m2 2. :26	0. /m /m2 m2:35	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150			06/12/31 16:17	06/36/31 31:45	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		547	g K/K	8	0. /n8/m2 2. :23	0. /mT/m2 26:25	2
TPH as Motor Oil Range	23		547	g K/K	8	0. /n8/m2 2. :23	0. /mT/m2 26:25	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	25		50 - 150			06/34/31 16:14	06/32/31 17:15	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		3m	g K/K	8	0. /2T/m2 2. :26	0. /12/m2 27:1T	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66		50 - 150			06/12/31 16:17	06/01/31 18:Q2	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		25	g K/K	8	0. /n8/m2 2. :23	0. /mT/m2 26:15	rr
TPH as Motor Oil Range	650		25	g K/K	8	0. /n8/m2 2. :23	0. /mT/m2 26:15	rr
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	21		50 - 150			06/34/31 16:14	06/32/31 17:Q6	3

EurofinRCalRcience LLC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 012337030

Job ID: 570-67621-2

**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		046	g/KOK	8	0. /2T/m2 2. :26	0. /m /m2 2. :21	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	46	S1-	50 - 150			06/12/31 16:17	06/36/31 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	270		20	g/KOK	8	0. /n8/m2 2. :23	0. /mT/m2 26:55	2
TPH as Motor Oil Range	450		20	g/KOK	8	0. /n8/m2 2. :23	0. /mT/m2 26:55	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	28		50 - 150			06/34/31 16:14	06/32/31 17:55	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		37	g/KOK	8	0. /2T/m2 2. :26	0. /12/m2 25:m0	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		50 - 150			06/12/31 16:17	06/01/31 15:30	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	970		T46	g/KOK	8	0. /n8/m2 2. :23	0. /mT/m2 27:23	2
TPH as Motor Oil Range	420		T46	g/KOK	8	0. /n8/m2 2. :23	0. /mT/m2 27:23	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	104		50 - 150			06/34/31 16:14	06/32/31 18:14	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		048	g/KOK	8	0. /2T/m2 2. :26	0. /12/m2 21:1T	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150			06/12/31 16:17	06/01/31 10Q2	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		642	g/KOK	8	0. /n8/m2 2. :23	0. /mT/m2 27:13	2
TPH as Motor Oil Range	18		642	g/KOK	8	0. /n8/m2 2. :23	0. /mT/m2 27:13	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	26		50 - 150			06/34/31 16:14	06/32/31 18:04	1

EurofinRCalRcience LLC



# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 012337030

Job ID: 570-67621-2

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		04m	g/KOK	8	06/12/21 2:26	06/16/21 2:21	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68		50 - 150			06/12/21 16:17	06/36/21 12:30	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	16		64m	g/KOK	8	06/18/21 2:23	06/17/21 27:53	2
TPH as Motor Oil Range	86		64m	g/KOK	8	06/18/21 2:23	06/17/21 27:53	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t a t o 9sne (Surr)	26		50 - 150			06/34/21 16:14	06/32/21 18:54	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	g/KOK	8	06/12/21 2:26	06/16/21 27:37	m60
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 150			06/12/21 16:17	06/36/21 12:48	350

## Method: NWTPH-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		64	g/KOK	8	06/18/21 2:23	06/17/21 27:53	2
TPH as Motor Oil Range	380		64	g/KOK	8	06/18/21 2:23	06/17/21 27:53	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t a t o 9sne (Surr)	25		50 - 150			06/34/21 16:14	06/32/21 16:54	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		04F5	g/KOK	8	06/12/21 2:26	06/12/21 23:03	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		50 - 150			06/12/21 16:17	06/01/21 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		26	g/KOK	8	06/18/21 2:23	06/17/21 27:23	2
TPH as Motor Oil Range	59		26	g/KOK	8	06/18/21 2:23	06/17/21 27:23	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t a t o 9sne (Surr)	28		50 - 150			06/34/21 16:14	06/32/21 12:14	1

EurofinRCalRcience LLC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 012337030

Job ID: 570-67621-2

**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		04n8	g K/K	8	0. /2T/n2 2. :26	0. /m /n2 m0:13	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51		50 - 150	06/12/31 16:17	06/36/31 30:04	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	84		647	g K/K	8	0. /n8/n2 2. :23	0. /mT/n2 2T:15	2
TPH as Motor Oil Range	51		647	g K/K	8	0. /n8/n2 2. :23	0. /mT/n2 2T:15	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	100		50 - 150	06/34/31 16:14	06/32/31 12:06	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		04nT	g K/K	8	0. /2T/n2 2. :26	0. /m /n2 m0:5.	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150	06/12/31 16:17	06/36/31 30:56	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		741	g K/K	8	0. /n8/n2 2. :23	0. /mT/n2 2T:55	2
TPH as Motor Oil Range	8.5		741	g K/K	8	0. /n8/n2 2. :23	0. /mT/n2 2T:55	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	25		50 - 150	06/34/31 16:14	06/32/31 12:55	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	g K/K	8	0. /2T/n2 2. :26	0. /m /n2 23:3.	n50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150	06/12/31 16:17	06/36/31 14:46	350

## 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		6m	g K/K	8	0. /n8/n2 2. :23	0. /10/n2 26:03	20
TPH as Motor Oil Range	400		6m	g K/K	8	0. /n8/n2 2. :23	0. /10/n2 26:03	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	111		50 - 150	06/34/31 16:14	06/00/31 17:04	10

EurofinRCalRcience LLC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 012337030

Job ID: 570-67621-2

**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		220	g/KOK	8	06/12/21 16:17	06/10/21 25:22	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150			06/12/21 16:17	06/36/31 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		5.	g/KOK	8	06/12/21 16:17	06/10/21 26:18	20
TPH as Motor Oil Range	490		5.	g/KOK	8	06/12/21 16:17	06/10/21 26:18	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æ t o9sne (Surr)	136		50 - 150			06/34/31 16:14	06/00/31 17:34	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		04mm	g/KOK	8	06/12/21 16:17	06/10/21 12:11	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		50 - 150			06/12/21 16:17	06/36/31 31:33	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	19		64	g/KOK	8	06/12/21 16:17	06/10/21 10:56	2
TPH as Motor Oil Range	15		64	g/KOK	8	06/12/21 16:17	06/10/21 10:56	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æ t o9sne (Surr)	25		50 - 150			06/34/31 16:14	06/32/31 30:57	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		04mm	g/KOK	8	06/12/21 16:17	06/10/21 00:51	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150			06/12/21 16:17	06/32/31 00:50	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	34		64	g/KOK	8	06/12/21 16:17	06/10/21 12:26	2
TPH as Motor Oil Range	17		64	g/KOK	8	06/12/21 16:17	06/10/21 12:26	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æ t o9sne (Surr)	28		50 - 150			06/34/31 16:14	06/32/31 31:17	1

EurofinRCalRcience LLC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 012337030

Job ID: 570-67621-2

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		7T	g/KOK	8	06/12/21 16:26	06/16/21 23:16	150
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		50 - 150			06/12/21 16:17	06/16/21 14:33	350

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
HPs as Diesel Range	OD		.45	g/KOK	8	06/12/21 16:23	06/16/21 22:16	2
TPH as Motor Oil Range	12		.45	g/KOK	8	06/12/21 16:23	06/16/21 22:16	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t e t o s s n e (Surr)	100		50 - 150			06/12/21 16:14	06/16/21 31:07	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
HPs as Gasoline (C3-C21)	OD		0.45	g/KOK	8	06/12/21 16:26	06/16/21 02:27	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150			06/12/21 16:17	06/16/21 01:18	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		m 0	g/KOK	8	06/12/21 16:23	06/16/21 26:33	50
TPH as Motor Oil Range	2200		m 0	g/KOK	8	06/12/21 16:23	06/16/21 26:33	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t e t o s s n e (Surr)	138		50 - 150			06/12/21 16:14	06/16/21 17:44	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		2m 0	g/KOK	8	06/12/21 16:26	06/16/21 25:15	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		50 - 150			06/12/21 16:17	06/16/21 15:05	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	7900		m 1	g/KOK	8	06/12/21 16:23	06/16/21 22:32	5
TPH as Motor Oil Range	1400		m 1	g/KOK	8	06/12/21 16:23	06/16/21 22:32	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t e t o s s n e (Surr)	134		50 - 150			06/12/21 16:32	06/16/21 33:41	5

EurofinRCalRcience LLC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 012337030

Job ID: 570-67621-2

**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
HPs aRGaBlne (C3-C21)	OD		045	g K/K	8	0. /2T/n2 2. :26	0. /mT/n2 02:30	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 150	06/12/31 16:17	06/32/31 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		2n0	g K/K	8	0. /n8/n2 2. :mT	0. /mT/n2 m1:01	20
TPH as Motor Oil Range	7300		2n0	g K/K	8	0. /n8/n2 2. :mT	0. /mT/n2 m1:01	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	151	S1+	50 - 150	06/34/31 16:32	06/32/31 3Q00	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		72	g K/K	8	0. /2T/n2 2. :26	0. /12/n2 25:36	m60

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		50 - 150	06/12/31 16:17	06/01/31 15:47	350

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
HPs aRDiePel 9 anKe	OD		64T	g K/K	8	0. /n8/n2 2. :mT	0. /mT/n2 m1:m8	2
TPH as Motor Oil Range	13		64T	g K/K	8	0. /n8/n2 2. :mT	0. /mT/n2 m1:m8	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	130		50 - 150	06/34/31 16:32	06/32/31 3Q34	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		04 6	g K/K	8	0. /2T/n2 2. :26	0. /mT/n2 0m50	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		50 - 150	06/12/31 16:17	06/32/31 03:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
HPs aRDiePel 9 anKe	OD		25	g K/K	8	0. /n8/n2 2. :mT	0. /mT/n2 m1:36	2
TPH as Motor Oil Range	58		25	g K/K	8	0. /n8/n2 2. :mT	0. /mT/n2 m1:36	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	100		50 - 150	06/34/31 16:32	06/32/31 3Q47	1

EurofinRCalRcience LLC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 012337030

Job ID: 570-67621-2

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

## 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		0413	g/Kg	8	06/12/21 16:17	06/32/21 01:23	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 150	06/12/21 16:17	06/32/21 01:23	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	8600		NT	g/Kg	8	06/12/21 16:17	06/32/21 01:23	5
TPH as Motor Oil Range	2500		NT	g/Kg	8	06/12/21 16:17	06/32/21 01:23	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t e t o s s n e (Surr)	135		50 - 150	06/34/21 16:01	06/00/21 00:02	5

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
HPs aRGaRline (C3-C21)	OD		0485	g/Kg	8	06/12/21 16:17	06/32/21 01:17	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55		50 - 150	06/12/21 16:17	06/32/21 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	7000		63	g/Kg	8	06/12/21 16:17	06/32/21 26:37	20
TPH as Motor Oil Range	2600		63	g/Kg	8	06/12/21 16:17	06/32/21 26:37	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t e t o s s n e (Surr)	177	S1+	50 - 150	06/34/21 16:01	06/00/21 17:48	10

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

## 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		0411	g/Kg	8	06/12/21 16:17	06/32/21 03:02	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 150	06/12/21 16:17	06/32/21 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		647	g/Kg	8	06/12/21 16:17	06/32/21 00:5m	2
TPH as Motor Oil Range	360		647	g/Kg	8	06/12/21 16:17	06/32/21 00:5m	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t e t o s s n e (Surr)	138		50 - 150	06/34/21 16:01	06/00/21 00:53	1

EurofinRCalRcience LLC



# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 012337030

Job ID: 570-67621-2

**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		5T	g/Kg	8	06/12/21 16:26	06/16/21 15:55	n60
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	46	S1-	50 - 150			06/12/21 16:17	06/16/21 15:56	350

## Method: NWTPH-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		64	g/Kg	8	06/12/21 16:12	06/16/21 02:23	2
TPH as Motor Oil Range	110		64	g/Kg	8	06/12/21 16:12	06/16/21 02:23	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-C10 internal standard (Surr)	117		50 - 150			06/12/21 16:01	06/16/21 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)	OD		045	g/Kg	8	06/12/21 16:26	06/16/21 03:18	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	50		50 - 150			06/12/21 16:17	06/16/21 04:34	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	OD		21	g/Kg	8	06/12/21 16:12	06/16/21 02:16	2
TPH as Motor Oil Range	140		21	g/Kg	8	06/12/21 16:12	06/16/21 02:16	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-C10 internal standard (Surr)	108		50 - 150			06/12/21 16:01	06/16/21 01:07	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

2 10 e 2 n tai or li d  
, tot de p @ : / SSoi E ob Gx D2 P049M70M0

Job ID: 570-67694-9

## 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
A, 3 nTHnToCI 2M294G	( D		0)N5	. nfgm			0KPKN9 99:55	9
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		80 - 180				0/ 72/ 721 11:88	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
A, 3 nTHnToCI 2M294G	( D		5)0	. nfgm			0KPKN9 9N:98	NO
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		80 - 180				0/ 72/ 721 12:15	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	
A, 3 nTHnToCI 2M294G	N)90	N)N4N		. nfgm		906	77 - 9NK	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	54		80 - 180					

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
A, 3 nTHnToCI 2M294G	N)94	N)N95		. nfgm		90M	77 - 9NK	9	96
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 0		80 - 180						

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
A, 3 nTHnToCI 2M294G	( D		0)N5	. nfgm			0KPKN9 N4:MN	9
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		80 - 180				0/ 72/ 721 23:42	1

/ utofCT 2 n1TdCi dl LL2

# QC Sample Results

2 10i e 2 ntai or li d  
, tot d e j @ : / SSoi E obGx D2 P049M70M0

Job ID: 570-67694-9

## 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
A, 3 nTHnToDI 2M294G	N94	N97N		. nfgm		90N	77 - 9NK
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	69		80 - 180				

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
A, 3 nTHnToDI 2M294G	N90	N975		. nfgm		90M	77 - 9NK	0	96
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	78		80 - 180						

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
A, 3 nTHnToDI 2M294G	( D		0)N5	. nfgm			0K49N9 0K:94	9
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	65		80 - 180		0/ 71721 0/ :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
A, 3 nTHnToDI 2M294G	( D		5)0	. nfgm			0K49N9 0K:4K	N0
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	65		80 - 180		0/ 71721 0/ :3/	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
A, 3 nTHnToDI 2M294G	N9N	9)76N		. nfgm		K4	77 - 9NK
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	53		80 - 180				

/ utofCT 2 n1TdCi dl LL2

# QC Sample Results

2 10 e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Gx D2 P049MM70M0

Job ID: 570-67694-9

## 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
A, 3 nTHnTol 2 M294G	N9N	9)758		. nfm		K4	77 - 9NK	0	96
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	50		80 - 180						

## 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
A, 3 nTDCTI 1Rni ml	( D		5)0	. nfm		OKPMN 9K:9M	OKPMN 99:58	9
A, 3 nTE oet OGRni ml	( D		5)0	. nfm		OKPMN 9K:9M	OKPMN 99:58	9
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	55		80 - 180			0/ 724721 1/:14	0/ 725721 11:85	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	
A, 3 nTDCTI 1290-2 NKG	M00	M54)K		. nfm		994	76 - 9N6	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	101		80 - 180					

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	
A, 3 nTE oet OQ297-2 MMG	M00	M8K)0		. nfm		90M	79 - 948	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	59		80 - 180					

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
A, 3 nTDCTI 1290-2 NKG	M00	MN)K		. nfm		999	76 - 9N6	N	ND
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	53		80 - 180						

/ utofCT 2 nTdCi dl LL2



# QC Sample Results

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, tot d e p @ : / SSoi E ob G D2 P049M70M0

Job ID: 570-67694-9

## 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
A, 3 nTE oet OG 297-2 MMG	M00	M09)7		. nfgm		900	79 - 948	M	NO
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	//		80 - 180						

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		
A, 3 nT DCT 1 290-2 NKG	96		M69	5N9)5		. nfgm	✱	990	47 - 975		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	58		80 - 180								

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		
A, 3 nTE oet OG 297-2 MMG	( D		M65	M78)9		. nfgm	✱	900	79 - 97M		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	52		80 - 180								

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
A, 3 nTDCI 1s290-2 NKG	96		M6M	555)9		. nfgm	✱	996	47 - 975	6	NO
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	101		80 - 180								

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
A, 3 nTE oet OG 297-2 MMG	( D		M68	MK4)N		. nfgm	✱	90N	79 - 97M	9	NO
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	5/		80 - 180								

/ utofCT 2 n1TdCi dl LL2

# QC Sample Results

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, tot d e p @ : / SSoi E ob G D2 P049M70M0

Job ID: 570-67694-9

## 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 Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 nTDC TI 1Rni ml	( D		5)0	. nrgm		OKPMBN 9K: NK	OKPMBN 9N:5M	9
A, 3 nTE oet OGRni ml	( D		5)0	. nrgm		OKPMBN 9K: NK	OKPMBN 9N:5M	9
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	124		80 - 180			0/ 724721 1/ :2/	0/ 725721 12:84	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 Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
A, 3 nTDC TI 1s290-2 NKG	M00	M6MM		. nrgm		99M	76 - 9N6	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	125		80 - 180					

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	Limits	%Rec.
A, 3 nTE oet OG297-2 MMG	M00	M48)8		. nrgm		990	79 - 948	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	122		80 - 180					

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	Limits	%Rec.	RPD	Limit
A, 3 nTDC TI 1s290-2 NKG	M00	M06)N		. nrgm		990	76 - 9N6		4	N0
Surrogate	%Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)	115		80 - 180							

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	Limits	%Rec.	RPD	Limit
A, 3 nTE oet OG297-2 MMG	M00	M06)7		. nrgm		90N	79 - 948		K	N0
Surrogate	%Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)	108		80 - 180							

/ utofCT 2 nTdCi dl LL2

# QC Sample Results

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, tot de p @ : / SSoi E ob Gx D2 P049M70M0

Job ID: 570-67694-9

## 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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
A, 3 nTDC TI 1s290-2 NKG	K000	FN	M6M	5896	M	. nfgm	☼	-M6	47 - 975		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
n-Octacosane (Surr)	116		80 - 180								

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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
A, 3 nTE oet OG 297-2 MMG	4K00		M79	45M0	M	. nfgm	☼	-59	79 - 97M		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	128		80 - 180								

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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
A, 3 nTDC TI 1s290-2 NKG	K000	FN	M68	7548	MFN	. nfgm	✱	-85	47 - 975	NM	ND
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	125		80 - 180								

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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
A, 3 nTE oet OG 297-2 MMG	4K00		M74	4M49	M	. nfgm	✱	-7M	79 - 97M	4	ND
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	115		80 - 180								

/ utofCT 2 nT dCi dl LL2

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

## GC VOA

### Prep Batch: 17206L

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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: 172069

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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: 175469

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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 (Continue3)

### Analysis Batch: 175469 (Continue3)

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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: 175102

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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: 17596L

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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: 17948L

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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 (Continue3)

### Prep Batch: 17948L (Continue3)

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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: 179476

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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: 175228

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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 (Continue3)

### Analysis Batch: 175228 (Continue3)

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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: 175220

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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: 175LLL

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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: 175945

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho3	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		1	5 g	5 mL	175094	08/28/21 21:45	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 16:15	A1W	ECL 1
		Instrument ID: GC50								

**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		100	5 mL	5 mL	175493	08/31/21 17:39	P1R	ECL 2
		Instrument ID: GC22								
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		2			175226	08/29/21 16:35	A1W	ECL 1
		Instrument ID: GC50								

**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		1	5 g	5 mL	175094	08/28/21 18:13	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.08 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 16:55	A1W	ECL 1
		Instrument ID: GC50								

**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		100	5 mL	5 mL	175493	08/31/21 15:20	P1R	ECL 2
		Instrument ID: GC22								
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 17:14	A1W	ECL 1
		Instrument ID: GC50								

# 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**

**Lab Sample ID: 570-67613-13**

**Date Collected: 08/17/21 11:45**

**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			6.981 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175094	08/28/21 20:34	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.23 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 19:35	A1W	ECL 1
Instrument ID: GC50										

**Client Sample ID: S-12.5-L1**

**Lab Sample ID: 570-67613-14**

**Date Collected: 08/17/21 11:50**

**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			6.428 g	5 g	172893	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	175094	08/28/21 20:58	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.11 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 19:55	A1W	ECL 1
Instrument ID: GC50										

**Client Sample ID: S-2.5-K2**

**Lab Sample ID: 570-67613-15**

**Date Collected: 08/17/21 12:20**

**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			6.899 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		250	5 mL	5 mL	175094	08/28/21 14:48	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC	DL		10.03 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175333	08/30/21 16:04	UJ3K	ECL 1
Instrument ID: GC50										

**Client Sample ID: S-5-K2**

**Lab Sample ID: 570-67613-16**

**Date Collected: 08/17/21 12:25**

**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			6.902 g	5 mL	172894	08/19/21 18:16	EDZ4	ECL 2
Total/NA	Analysis	NWTPH-Gx		500	5 mL	5 mL	175094	08/28/21 15:11	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC	DL		10.04 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	10			175333	08/30/21 16:24	UJ3K	ECL 1
Instrument ID: GC50										

# 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		1	5 g	5 mL	175094	08/28/21 21:22	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 20:56	A1W	ECL 1
Instrument ID: GC50										

**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		1	5 g	5 mL	175182	08/29/21 00:53	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 21:16	A1W	ECL 1
Instrument ID: GC50										

**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		250	5 mL	5 mL	175094	08/28/21 14:22	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.10 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175226	08/29/21 21:36	A1W	ECL 1
Instrument ID: GC50										

**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		1	5 g	5 mL	175182	08/29/21 01:17	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC	DL		10.25 g	10 mL	174063	08/24/21 18:14	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx	DL	50			175333	08/30/21 16:44	UJ3K	ECL 1
Instrument ID: GC50										



# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExxonMobi ADC / 031447040

Job ID: 570-67613-1

**Client Sample ID: S-5-M4**

**Date Collected: 08/17/21 13:05**

**Date Received: 08/18/21 10:15**

**Lab Sample ID: 570-67613-21**

**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			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**

**Date Collected: 08/17/21 13:10**

**Date Received: 08/18/21 10:15**

**Lab Sample ID: 570-67613-22**

**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			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**

**Date Collected: 08/17/21 13:15**

**Date Received: 08/18/21 10:15**

**Lab Sample ID: 570-67613-23**

**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			6.239 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**

**Date Collected: 08/17/21 13:20**

**Date Received: 08/18/21 10:15**

**Lab Sample ID: 570-67613-24**

**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			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		1	5 g	5 mL	175182	08/29/21 03:14	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.00 g	10 mL	174079	08/24/21 18:31	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			175228	08/30/21 00:09	N1A	ECL 1
Instrument ID: GC48										

**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		1	5 g	5 mL	175182	08/29/21 03:37	P1R	ECL 2
Instrument ID: GC57										
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	DL	10			175405	08/30/21 16:47	N1A	ECL 1
Instrument ID: GC48										

**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		1	5 g	5 mL	175182	08/29/21 04:01	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	174079	08/24/21 18:31	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 00:52	N1A	ECL 1
Instrument ID: GC48										

**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		250	5 mL	5 mL	175094	08/28/21 15:58	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.12 g	10 mL	174079	08/24/21 18:31	USUL	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			175228	08/30/21 01:14	N1A	ECL 1
Instrument ID: GC48										

# 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
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

5

## 6

12

13

07/03



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 <b>Cardno</b> ADDRESS: 309 South Cloverdale Street Unit A13 CITY: Seattle, WA 98108 TEL: 206-510-5855		GLOBAL ID # COELT LOG CODE: PROJECT CONTACT: Robert Thompson SAMPLER(S): Paul Prevou, John Considine		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 checked="" type="checkbox"/> 10 DAYS		SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input checked="" 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. 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				570-67613 Chain of Custody	
SAMPLE ID		Field Point Name		SAMPLING	
LAB: 1 S-2.5-M1		DATE: 8/17/2021		TIME: 1035	
LAB: 2 S-5-M1		DATE: 8/17/2021		TIME: 1040	
LAB: 3 S-7.5-M1		DATE: 8/17/2021		TIME: 1045	
LAB: 4 S-10-M1		DATE: 8/17/2021		TIME: 1050	
LAB: 5 S-12.5-M1		DATE: 8/17/2021		TIME: 1055	
LAB: 6 S-5-M2		DATE: 8/17/2021		TIME: 1100	
LAB: 7 S-7.5-M2		DATE: 8/17/2021		TIME: 1105	
LAB: 8 S-10-M2		DATE: 8/17/2021		TIME: 1110	
LAB: 9 S-12.5-M2		DATE: 8/17/2021		TIME: 1115	
LAB: 10 S-2.5-L1		DATE: 8/17/2021		TIME: 1120	
LAB: 11 S-5-L1		DATE: 8/17/2021		TIME: 1125	
LAB: 12 S-7.5-L1		DATE: 8/17/2021		TIME: 1130	
LAB: 13 S-10-L1		DATE: 8/17/2021		TIME: 1135	
LAB: 14 S-12.5-L1		DATE: 8/17/2021		TIME: 1140	
LAB: 15 S-2.5-K2		DATE: 8/17/2021		TIME: 1145	
LAB: 16 S-5-K2		DATE: 8/17/2021		TIME: 1150	
LAB: 17 S-7.5-K2		DATE: 8/17/2021		TIME: 1155	
LAB: 18 S-10-K2		DATE: 8/17/2021		TIME: 1200	
LAB: 19 S-12.5-K2		DATE: 8/17/2021		TIME: 1205	
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LAB: Trip Blank		DATE: 8/17/2021		TIME: 1220	
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LAB: EQB1		DATE: 8/17/2021		TIME: 1275	
LAB: Trip Blank		DATE: 8/17/2021		TIME: 1280	
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LAB: Trip Blank		DATE: 8/17/2021		TIME: 2210	
LAB: EQB1		DATE: 8/17/2021		TIME: 2215	





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 Engr

Jennifer Sedlachek

ExxonMobil ADC / 0314476040

CHAIN OF CUSTODY RECORD

DATE 8/17/2021

PAGE 2 OF 2

LABORATORY CLIENT		GLOBAL ID # COELT LOG CODE		P O 0314476040, Agreement# A2604415	
Cardno		PROJECT CONTACT		LAB USE ONLY	
ADDRESS: 309 South Cloverdale Street Unit A13		Robert Thompson		GQOLIER RECEIPT	
CITY: Seattle, WA 98108		SAMPLER(S): Paul Prevou, John Considine		Temp	
TEL: 206-510-5855					
TURNAROUND TIME					
<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 checked="" 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. 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					
LAINA USE ONLY		NO. OF CONT		CONTAINER TYPE	
SAMPLE ID		FIELD POINT NAME		DATE	
20 S-2.5-MH		MH		8/17/2021	
21 S-5-MH		MH		8/17/2021	
22 S-7.5-MH		MH		8/17/2021	
23 S-10-MH		MH		8/17/2021	
24 S-12.5-MH		MH		8/17/2021	
25 S-2.5-L3		L3		8/17/2021	
26 S-5-L3		L3		8/17/2021	
27 S-7.5-L3		L3		8/17/2021	
28 S-10-L3		L3		8/17/2021	
29 S-12.5-L3		L3		8/17/2021	
S-2.5				8/17/2021	
S-5				8/17/2021	
S-7.5				8/17/2021	
S-10				8/17/2021	
S-12.5				8/17/2021	
S-2.5				8/17/2021	
S-5				8/17/2021	
S-7.5				8/17/2021	
S-10				8/17/2021	
S-12.5				8/17/2021	
Trip Blank		Trip Blank		8/17/2021	
EQBT		EQBT		8/17/2021	
Relinquished by (Signature)		Relinquished by (Signature)		Relinquished by (Signature)	
Paul Prevou		Paul Prevou		Paul Prevou	
Relinquished by (Signature)		Relinquished by (Signature)		Relinquished by (Signature)	
Relinquished by (Signature)		Relinquished by (Signature)		Relinquished by (Signature)	

Date, & Time		8/17/2021 4:15:00 PM	
Date, & Time		8/18/21 10:15	
Date, & Time		8/18/21 10:15	
Received by (Signature)		Received by (Signature)	
FedEx		FedEx	
Received by (Signature)		Received by (Signature)	
Received by (Signature)		Received by (Signature)	

## 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 $\leq$ 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 $<6\text{mm}$ (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?



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[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  
1 roRectj/ ite: SEEnx obil MDC j 0A83376030

Job ID: 570-67785-8

Job ID: 570-67715-1

Laboratory: Eurofins Calscience LLC

## Narrative

### Job Narrative 570-67715-1

#### Comments

4 o additional coNNeNtrns

#### Receipt

. Te nAnhlemp ere received on vj8vj2028 80:85 Mx s UnlenmotTerp ine noted belop , tTe nAnhlemp arrived in good condition, and p Tere required, hroherly hrenerved and on ices . Te teNherature of tTe cooler at receiht p amAs3° Cs

#### Receipt Exceptions

/ -7s-( 6 570-67785-v) container Par collection tiNe her label im07:50  
/ -80-( 6 / -80-( 6 570-67785-z) container Par collection tiNe her label im07:35

Client p amnotified and adwined tTe laboratory to une tTe nAnhle collection tiNemlited on tTe C( Cs 1leane refer to tTe attacTed eNails

#### GC VOA

x etTod 4 W. 1 H-GE Innufficient nAnhle voluNe p amavailable to herforN a NatriEnnikejNatriEnnike duhlicate Q / jx / D) amociated pitT analytical batcT 570-8758v2s . Te laboratory control nAnhle (C/ ) p amherforNed in duhlicate to hrowide hrecision data for tTimbatcTs

x etTod 4 W. 1 H-GE Innufficient nAnhle voluNe p amavailable to herforN a NatriEnnikejNatriEnnike duhlicate Q / jx / D) amociated pitT analytical batcT 570-8757A7s . Te laboratory control nAnhle (C/ ) p amherforNed in duhlicate to hrowide hrecision data for tTimbatcTs

x etTod 4 W. 1 H-GE Innufficient nAnhle voluNe p amavailable to herforN a NatriEnnikejNatriEnnike duhlicate Q / jx / D) amociated pitT analytical batcT 570-8753zAs . Te laboratory control nAnhle (C/ ) p amherforNed in duhlicate to hrowide hrecision data for tTimbatcTs

x etTod 4 W. 1 H-GE . Te follop ing nAnhlemp ere analyLed outnide of analytical Tolding tiNe due to an error in nAnhling nCTeduling:  
/ -5-4 5 570-67785-82) and / -5-4 A 570-67785-20)s

x etTod 4 W. 1 H-GE / urrogate recovery for tTe follop ing nAnhlemp ere outnide control liNitm / -5-4 5 570-67785-82), / -7s-( 6 DU1 570-67785-8v) and / -7s-4 A 570-67785-28)s Swidence of NatriEinterference imhrentRTherefore, re-eEraction and/or re-analynimp am not herforNeds

x etTod 4 W. 1 H-GE Innufficient nAnhle voluNe p amavailable to herforN a NatriEnnikejNatriEnnike duhlicate Q / jx / D) amociated pitT analytical batcT 570-875v3zs . Te laboratory control nAnhle (C/ ) p amherforNed in duhlicate to hrowide hrecision data for tTimbatcTs

x etTod 4 W. 1 H-GE Innufficient nAnhle voluNe p amavailable to herforN a NatriEnnikejNatriEnnike duhlicate Q / jx / D) amociated pitT analytical batcT 570-875vv6s . Te laboratory control nAnhle (C/ ) p amherforNed in duhlicate to hrowide hrecision data for tTimbatcTs

x etTod 4 W. 1 H-GE Dilution analynimof tTe follop ing nAnhle p amherforNed outnide of Tolding tiNe due to target analyte over tTe calibration range in tTe initial analynim / -2s-4 A 570-67785-8z)s Initial analynimp amherforNed p itTin required Tolding tiNes

x etTod 4 W. 1 H-GE ; e-analynimof tTe follop ing nAnhle p amherforNed outnide of tTe analytical Tolding tiNe due to failure of quality control haraNeter in tTe initial analynims / -82s-( 2 570-67785-26)s

x etTod 4 W. 1 H-GE . Te follop ing nAnhle p amanalyLed outnide of analytical Tolding tiNe due to an error in nAnhling nCTeduling:  
/ -80-( 3 570-67785-86)s

x etTod 4 W. 1 H-GE / urrogate recovery for tTe follop ing nAnhle p amoutnide control liNitm / -5-( 2 570-67785-2A)s ; e-eEraction and/or re-analynimp amherforNed and nurrogate recovery p amoutnide control liNitns . Te initial data analynimTambeen rehortedS

4 o additional analytical or quality innuemp ere noted, otTer tTan tTone described above or in tTe DefinitionnjGlonmary hages

#### GC Semi VOA

## Case Narrative

Client: Cardno, Inc  
Project/ Site: SEONX obil MDC j 0A83376030

Job ID: 570-67785-8

### Job ID: 570-67715-1 (Continued)

#### Laboratory: Eurofins Calscience LLC (Continued)

4 o analytical or quality inmuempere noted, otTer tTan tTone dencribed in tTe DefinitionnjGlommary hages

#### General Chemistry

4 o analytical or quality inmuempere noted, otTer tTan tTone dencribed in tTe DefinitionnjGlommary hages

#### Organic Prep

4 o analytical or quality inmuempere noted, otTer tTan tTone dencribed in tTe DefinitionnjGlommary hages

#### VOA Prep

4 o analytical or quality inmuempere noted, otTer tTan tTone dencribed in tTe DefinitionnjGlommary hages

# Detection Summary

4 20 i: 4 ert l oall r  
dm, QriP1C: j // ol Sob 2ED4 c0x9MM760MD

Job ID: 570-67795-9

## Client Sample ID: S-2.5-N7

## Lab Sample ID: 570-67715-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	x6		90	( ) c )	50	A	mg 3d <sup>+</sup> H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	6900		NW	( ) c )	5	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C	Nk00		NW	( ) c )	5	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR

## Client Sample ID: S-5-N7

## Lab Sample ID: 570-67715-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	9N00		970	( ) c )	500	A	mg 3d <sup>+</sup> H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	9600		6p7	( ) c )	9	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C	x7		6p7	( ) c )	9	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR

## Client Sample ID: S-7.5-N7

## Lab Sample ID: 570-67715-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	8500		V80	( ) c )	500	A	mg 3d <sup>+</sup> H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C- Df	NM00		970	( ) c )	90	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C- Df	9000		970	( ) c )	90	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR

## Client Sample ID: S-10-N7

## Lab Sample ID: 570-67715-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	9M00		x50	( ) c )	N50	A	mg 3d <sup>+</sup> H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	MM00		M6	( ) c )	N	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C	9V00		M6	( ) c )	N	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR

## Client Sample ID: S-12.5-N7

## Lab Sample ID: 570-67715-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	MpM		OpV5	( ) c )	9	A	mg 3d <sup>+</sup> H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	xN0		N9	( ) c )	9	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C	980		N9	( ) c )	9	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR

## Client Sample ID: S-2.5-O6

## Lab Sample ID: 570-67715-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	970		5W	( ) c )	N50	A	mg 3d <sup>+</sup> H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	9000		5N	( ) c )	90	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C	9700		5N	( ) c )	90	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR

## Client Sample ID: S-5-O6

## Lab Sample ID: 570-67715-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	NM00		M80	( ) c )	N500	A	mg 3d <sup>+</sup> H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	N000		58	( ) c )	90	A	mg 3d <sup>+</sup> D/	P1 <sup>+</sup> re HC2 4 2Del CR

3hT DQri bl PQ ( erty toCT l oi 1 r 2 Cret brhQ 1 e2iCTi rCTQ2P

j QoL1 T 4 e2r 1 rCff 4

# Detection Summary

4 20 i: 4 ert l oall r

dm,QriP1C: j //ol Sob 2ED4 c0x9MM760M0

Job ID: 570-67795-9

## Client Sample ID: S-5-O6 (Continued)

## Lab Sample ID: 570-67715-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eTSoionu 2Kel ) C	xND		58	( ) c )	90	A	mg 3d☼-D/	P1re HC2 4 2del CR

## Client Sample ID: S-7.5-O6

## Lab Sample ID: 570-67715-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eTHeTo2 Cs4 M4 9xG	N00		NM	( ) c )	900	A	mg 3d☼-H/	3oie2mE
3d☼eT DCTC2Kel ) C	NN		5p7	( ) c )	9	A	mg 3d☼-D/	P1re HC2 4 2del CR

## Client Sample ID: S-10-O6

## Lab Sample ID: 570-67715-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eTHeTo2 Cs4 M4 9xG	N800		580	( ) c )	N500	A	mg 3d☼-H/	3oie2mE
3d☼eT DCTC2Kel ) C	600		6p9	( ) c )	9	A	mg 3d☼-D/	P1re HC2 4 2del CR
3d☼eTSoionu 2Kel ) C	N7		6p9	( ) c )	9	A	mg 3d☼-D/	P1re HC2 4 2del CR

## Client Sample ID: S-12.5-O6

## Lab Sample ID: 570-67715-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eTHeTo2 Cs4 M4 9xG	N90		NN	( ) c )	900	A	mg 3d☼-H/	3oie2mE
3d☼eT DCTC2Kel ) C	N60		9x	( ) c )	N	A	mg 3d☼-D/	P1re HC2 4 2del CR
3d☼eTSoionu 2Kel ) C	N90		9x	( ) c )	N	A	mg 3d☼-D/	P1re HC2 4 2del CR

## Client Sample ID: S-2.5-N5

## Lab Sample ID: 570-67715-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eTHeTo2 Cs4 M4 9xG	N000		Nx0	( ) c )	500	A	mg 3d☼-H/	3oie2mE
3d☼eT DCTC2Kel ) C	990000		xV0	( ) c )	50	A	mg 3d☼-D/	P1re HC2 4 2del CR
3d☼eTSoionu 2Kel ) C	6x00		xV0	( ) c )	50	A	mg 3d☼-D/	P1re HC2 4 2del CR

## Client Sample ID: S-5-N5

## Lab Sample ID: 570-67715-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eTHeTo2 Cs4 M4 9xG	9900	☼	x5	( ) c )	900	A	mg 3d☼-H/	3oie2mE
3d☼eT DCTC2Kel ) C	VND		xx	( ) c )	5	A	mg 3d☼-D/	P1re HC2 4 2del CR
3d☼eTSoionu 2Kel ) C	59		xx	( ) c )	5	A	mg 3d☼-D/	P1re HC2 4 2del CR

## Client Sample ID: S-7.5-N5

## Lab Sample ID: 570-67715-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eTHeTo2 Cs4 M4 9xG	0pV7		0pN9	( ) c )	9	A	mg 3d☼-H/	3oie2mE

## Client Sample ID: S-10-N5

## Lab Sample ID: 570-67715-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eTHeTo2 Cs4 M4 9xG	8pM		0pNM	( ) c )	9	A	mg 3d☼-H/	3oie2mE
3d☼eT DCTC2Kel ) C	xN		6p0	( ) c )	9	A	mg 3d☼-D/	P1re HC2 4 2del CR

3hT DQri bl PQ ( erty toCT l oi 1 r 2 Cret brhQ 1 e2iCTi rCTQ2Tp

j QoL1 T4e2r Q rCff4

# Detection Summary

4 2Q i: 4 ert l oall r  
dm,QriP1C: j //ol Sob2ED4 c0x9MM760MD

Job ID: 570-67795-9

Client Sample ID: S-12.5-N5

Lab Sample ID: 570-67715-15

mo DQOribl Tp

Client Sample ID: S-10-O4

Lab Sample ID: 570-67715-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	66	☼	M7	( ) c )	N0	A	mg 3d <sup>+</sup> ☼H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	Nk0		6p9	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C	75		6p9	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR

Client Sample ID: S-12.5-O4

Lab Sample ID: 570-67715-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	9pN		0p7M	( ) c )	9	A	mg 3d <sup>+</sup> ☼H/	3oie2mE
3d <sup>+</sup> eT Soionu 2Kel ) C	6N		N0	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR

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
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	55		xp8	( ) c )	N0	A	mg 3d <sup>+</sup> ☼H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	9900		5pV	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C	N6		5pV	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR

Client Sample ID: S-2.5-N3

Lab Sample ID: 570-67715-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	9700	☼	980	( ) c )	9000	A	mg 3d <sup>+</sup> ☼H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	8x0		5p5	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C	8p5		5p5	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR

Client Sample ID: S-5-N3

Lab Sample ID: 570-67715-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	VW0	☼	990	( ) c )	500	A	mg 3d <sup>+</sup> ☼H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	7V0		6p0	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C	980		6p0	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR

Client Sample ID: S-7.5-N3

Lab Sample ID: 570-67715-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	9pV		0pK	( ) c )	9	A	mg 3d <sup>+</sup> ☼H/	3oie2mE

Client Sample ID: S-2.5-O2

Lab Sample ID: 570-67715-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 M4 9xG	0pN5		0pNN	( ) c )	9	A	mg 3d <sup>+</sup> ☼H/	3oie2mE
3d <sup>+</sup> eT D <sup>+</sup> CTC2Kel ) C	M5		6p9	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR
3d <sup>+</sup> eT Soionu 2Kel ) C	M7		6p9	( ) c )	9	A	mg 3d <sup>+</sup> ☼D/	P1 <sup>+</sup> re HC2 4 2Del CR

3hT DQOribl PQ ( eryl oCTl oi 1 r2 Cret brhQ 1 e2iCTl rCTO2Tp

j QoL1 T4e2r Q rCff4

# Detection Summary

4 20 i: 4 ert l oall r  
dm,QriP1C: j //ol Sob2ED4 c0x9MM760M0

Job ID: 570-67795-9

## Client Sample ID: S-5-O2

## Lab Sample ID: 570-67715-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eT Soionu 2Kel ) C	67		9N	( ) c )	N	A	mg 3d☼D/	P1re HC2 4 2del CR

## Client Sample ID: S-7.5-O2

## Lab Sample ID: 570-67715-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eT HeTo2 Cs4 M4 9xG	5pM		0pM	( ) c )	9	A	mg 3d☼H/	3oie2mE
3d☼eT DCTC2Kel ) C	NM0		7M	( ) c )	5	A	mg 3d☼D/	P1re HC2 4 2del CR
3d☼eT Soionu 2Kel ) C	9M00		7M	( ) c )	5	A	mg 3d☼D/	P1re HC2 4 2del CR

## Client Sample ID: S-10-O2

## Lab Sample ID: 570-67715-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eT HeTo2 Cs4 M4 9xG	9px		0p66	( ) c )	9	A	mg 3d☼H/	3oie2mE

## Client Sample ID: S-12.5-O2

## Lab Sample ID: 570-67715-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eT Soionu 2Kel ) C	9M		6px	( ) c )	9	A	mg 3d☼D/	P1re HC2 4 2del CR

## Client Sample ID: S-16-N3

## Lab Sample ID: 570-67715-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d☼eT Soionu 2Kel ) C	95		99	( ) c )	9	A	mg 3d☼D/	P1re HC2 4 2del CR



# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j/ l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 6 0 3 0

Job ID: 570-67725-2

Client Sample ID: S-1.5-M7

Lab Sample ID: 570-67725-2

Date Cdille8tec: 0/ 327312 06:v5

r atxio: Sdlic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	46		20	4 njgm	K	0/ 85j82 26:A2	0/ 85j82 25:2A	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150			0/ 85j82 1: 731	0/ 85j82 15713	50

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	6200		80	4 njgm	K	0/ 85j82 20:2	0/ 85j82 20:33	5
TPH as r dtdxgil Ranf e	1400		80	4 njgm	K	0/ 85j82 20:2	0/ 85j82 20:33	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	133		50 - 150			0/ 85j82 1/ 719	0/ 85j82 10744	5

Client Sample ID: S-5-M7

Lab Sample ID: 570-67725-1

Date Cdille8tec: 0/ 327312 06:50

r atxio: Sdlic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	2100		270	4 njgm	K	0/ 85j82 26:A2	0/ 85j82 27:A7	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		50 - 150			0/ 85j82 1: 731	0/ 85j82 18738	500

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	2600		67	4 njgm	K	0/ 85j82 20:2	0/ 85j82 03:35	2
TPH as r dtdxgil Ranf e	47		67	4 njgm	K	0/ 85j82 20:2	0/ 85j82 03:35	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		50 - 150			0/ 85j82 1/ 719	0/ 85j82 04745	1

Client Sample ID: S-7.5-M7

Lab Sample ID: 570-67725-4

Date Cdille8tec: 0/ 327312 06:55

r atxio: Sdlic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	0500		0	4 njgm	K	0/ 85j82 26:A2	0/ 85j82 20:02	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	3		50 - 150			0/ 85j82 1: 731	0/ 85j82 1/ 701	500

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup - DL

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	1v000		270	4 njgm	K	0/ 85j82 20:2	0/ 85j82 27:83	20
TPH as r dtdxgil Ranf e	2000		270	4 njgm	K	0/ 85j82 20:2	0/ 85j82 27:83	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	10		50 - 150			0/ 85j82 1/ 719	0/ 85j82 18764	10

SHodeR1t Q li e, i NN1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j/ l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 6 0 3 0

Job ID: 570-67725-2

Client Sample ID: S-20-M7

Date Cdille8tec: 0/ 327312 07:00

Date Re8eihec: 0/ 32/ 312 20:25

Lab Sample ID: 570-67725-v

r atxio: Sdlic

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	2v00		A50	4 njgm	K	0/38A82 26:A2	0/3A2j82 26:3.	850
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 6		50 - 150			0/ 3331 1: 731	0/ 3131 1: 749	650

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	vv00		36	4 njgm	K	0/385j82 20:2.	0/3A0j82 05:86	8
TPH as r dtdxgil Ranf e	2/ 00		36	4 njgm	K	0/385j82 20:2.	0/3A0j82 05:86	8
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	86		50 - 150			0/ 3531 1/ 719	0/ 3031 05:7.	6

Client Sample ID: S-21.5-M7

Date Cdille8tec: 0/ 327312 07:05

Date Re8eihec: 0/ 32/ 312 20:25

Lab Sample ID: 570-67725-5

r atxio: Sdlic

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	v.v		0T:5	4 njgm	K	0/38A82 26:A2	0/38. j82 00:8.	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	53		50 - 150			0/ 3331 1: 731	0/ 3931 00:79	1

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	410		82	4 njgm	K	0/385j82 20:2.	0/3A0j82 05:30	2
TPH as r dtdxgil Ranf e	200		82	4 njgm	K	0/385j82 20:2.	0/3A0j82 05:30	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 4		50 - 150			0/ 3531 1/ 719	0/ 3031 05:7/	1

Client Sample ID: S-1.5-g 6

Date Cdille8tec: 0/ 327312 07:45

Date Re8eihec: 0/ 32/ 312 20:25

Lab Sample ID: 570-67725-6

r atxio: Sdlic

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 naIAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 naIAFec	Dil ya8
TPH as Gasdline (Cv-C24)	270		50	4 njgm	K	0/38A82 26:A2	0/3A2j82 26:85	850
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 1		50 - 150			0/ 3331 1: 731	0/ 3131 1: 765	650

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	2000		58	4 njgm	K	0/385j82 20:2.	0/3A0j82 20:23	20
TPH as r dtdxgil Ranf e	2700		58	4 njgm	K	0/385j82 20:2.	0/3A0j82 20:23	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	89		50 - 150			0/ 3531 1/ 719	0/ 3031 10:74	10

SHodeR1t Q li e, i NN1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j / l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 6 0 3 0

Job ID: 570-67725-2

Client Sample ID: S-5-g 6

Date Cdille8tec: 0/ 327312 07:v0

Date Re8eihec: 0/ 32/ 312 20:25

Lab Sample ID: 570-67725-7

r atxio: Sdlic

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	1/ 00		3. 0	4 njgm	K	0/ 38A j82 26:A2	0/ 3A2 j82 2:385	8500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150			0/ 38381 1: 731	0/ 31281 1/ 785	6500

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	1000		5.	4 njgm	K	0/ 385 j82 2:32.	0/ 3A0 j82 20:A3	20
TPH as r dtdxgil Ranf e	410		5.	4 njgm	K	0/ 385 j82 2:32.	0/ 3A0 j82 20:A3	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/:		50 - 150			0/ 38581 1/ 719	0/ 30281 10734	10

Client Sample ID: S-7.5-g 6

Date Cdille8tec: 0/ 327312 07:v5

Date Re8eihec: 0/ 32/ 312 20:25

Lab Sample ID: 570-67725-/

r atxio: Sdlic

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	100		83	4 njgm	K	0/ 38A j82 26:A2	0/ 3A2 j82 25:A6	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150			0/ 38381 1: 731	0/ 31281 1573:	100

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	110		57	4 njgm	K	0/ 385 j82 2:32.	0/ 3A0 j82 06:33	2
9c O t Rx orbau lQ t eni	LD		57	4 njgm	K	0/ 385 j82 2:32.	0/ 3A0 j82 06:33	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	93		50 - 150			0/ 38581 1/ 719	0/ 30281 0: 74/	1

Client Sample ID: S-20-g 6

Date Cdille8tec: 0/ 327312 07:50

Date Re8eihec: 0/ 32/ 312 20:25

Lab Sample ID: 570-67725-C

r atxio: Sdlic

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	1000		5. 0	4 njgm	K	0/ 38A j82 26:A2	0/ 3A2 j82 2:33.	8500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 4		50 - 150			0/ 38381 1: 731	0/ 31281 1/ 749	6500

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	600		62	4 njgm	K	0/ 385 j82 2:32.	0/ 3A0 j82 07:03	2
TPH as r dtdxgil Ranf e	17		62	4 njgm	K	0/ 385 j82 2:32.	0/ 3A0 j82 07:03	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	90		50 - 150			0/ 38581 1/ 719	0/ 30281 0870/	1

SHodeR1 t Q li e, i NN1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j/ l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 6 0 3 0

Job ID: 570-67725-2

Client Sample ID: S-21.5-g 6

Lab Sample ID: 570-67725-20

Date Cdlle8tec: 0/ 327312 07:55

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	120		88	4 njgm	K	0/ 8A j 82 26: A2	0/ 8A j 82 26: 02	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8		50 - 150			0/ 83 81 1: 731	0/ 81 81 1: 701	100

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	160		2A	4 njgm	K	0/ 85 j 82 2: 02.	0/ 8A j 82 07: 8: 0	8
TPH as r dtdxgil Ranf e	120		2A	4 njgm	K	0/ 85 j 82 2: 02.	0/ 8A j 82 07: 8: 0	8
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	94		50 - 150			0/ 85 81 1/ 719	0/ 80 81 08 7/	6

Client Sample ID: S-1.5-M5

Lab Sample ID: 570-67725-22

Date Cdlle8tec: 0/ 327312 0/ :10

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	1000		8A0	4 njgm	K	0/ 8A j 82 26: A2	0/ 8A j 82 27: 2A	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		50 - 150			0/ 83 81 1: 731	0/ 81 81 18 73	500

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	220000		A: 0	4 njgm	K	0/ 85 j 82 2: 02.	0/ 8A j 82 27: 33	50
TPH as r dtdxgil Ranf e	6400		A: 0	4 njgm	K	0/ 85 j 82 2: 02.	0/ 8A j 82 27: 33	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	1: 9	S1+	50 - 150			0/ 85 81 1/ 719	0/ 80 81 18 74	50

Client Sample ID: S-5-M5

Lab Sample ID: 570-67725-21

Date Cdlle8tec: 0/ 327312 0/ :15

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	2200	H	A5	4 njgm	K	0/ 8A j 82 26: A2	0. j 02 j 82 00: 2A	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	6/ 3	S1+	50 - 150			0/ 83 81 1: 731	09 81 81 00 73	100

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	110		AA	4 njgm	K	0/ 85 j 82 2: 02.	0/ 8A j 82 27: 0.	5
TPH as r dtdxgil Ranf e	52		AA	4 njgm	K	0/ 85 j 82 2: 02.	0/ 8A j 82 27: 0.	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	118		50 - 150			0/ 85 81 1/ 719	0/ 80 81 18 709	5

SHodeR1 t Q li e, i NN1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j / l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 6 0 3 0

Job ID: 570-67725-2

Client Sample ID: S-7.5-M5

Lab Sample ID: 570-67725-24

Date Cdlle8tec: 0/ 327312 0/ :40

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

## r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	0.7		0B2	4 njgm	K	0/38A82 26:A2	0/3A2j82 8A:8.	2
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	115		50 - 150	0/ 38381 1: 731	0/ 31281 63769	1		

## r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOt RDli R Q t emi	LD		6D	4 njgm	K	0/385j82 20:2.	0/3A0j82 27:A0	2
9cOt Rx orbau lQ t emi	LD		6D	4 njgm	K	0/385j82 20:2.	0/3A0j82 27:A0	2
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	110		50 - 150	0/ 38581 1/ 719	0/ 30281 18730	1		

Client Sample ID: S-20-M5

Lab Sample ID: 570-67725-2v

Date Cdlle8tec: 0/ 327312 0/ :45

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

## r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	Qv		0B3	4 njgm	K	0/38A82 26:A2	0/3A2j82 8A:5A	2
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	85		50 - 150	0/ 38381 1: 731	0/ 31281 63763	1		

## r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	41		6D	4 njgm	K	0/385j82 20:2.	0/3A0j82 27:52	2
9cOt Rx orbau lQ t emi	LD		6D	4 njgm	K	0/385j82 20:2.	0/3A0j82 27:52	2
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	11/		50 - 150	0/ 38581 1/ 719	0/ 30281 18761	1		

Client Sample ID: S-21.5-M5

Lab Sample ID: 570-67725-25

Date Cdlle8tec: 0/ 327312 0/ :v0

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

## r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOt RGt R b e i (13-12A)	LD		0T	4 njgm	K	0/38A82 26:A2	0/3A2j82 2.:00	2
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	81		50 - 150	0/ 38381 1: 731	0/ 31281 19700	1		

## r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOt RDli R Q t emi	LD		8.	4 njgm	K	0/385j82 20:2.	0/3A0j82 20:2A	2
9cOt Rx orbau lQ t emi	LD		8.	4 njgm	K	0/385j82 20:2.	0/3A0j82 20:2A	2
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	163		50 - 150	0/ 38581 1/ 719	0/ 30281 1/ 713	1		

SHodeR1 t Q li e, i NN1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j/ l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 6 0 3 0

Job ID: 570-67725-2

Client Sample ID: S-20-g v

Lab Sample ID: 570-67725-26

Date Cdlle8tec: 0/ 327312 0Q25

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	66	H	37	4 njgm	K	0/ 8A j 82 26: A2	0/ j02 j 82 20: 85	80
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		50 - 150			0/ 33 3 1 1: 731	09 20 1 3 1 10 7 5	60

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	140		62	4 njgm	K	0/ j85 j 82 2 2 2	0/ jA2 j 82 25: 06	2
TPH as r dtdxgil Ranf e	75		62	4 njgm	K	0/ j85 j 82 2 2 2	0/ jA2 j 82 25: 06	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	166		50 - 150			0/ 35 3 1 1/ 719	0/ 31 3 1 15 7 0	1

Client Sample ID: S-21.5-g v

Lab Sample ID: 570-67725-27

Date Cdlle8tec: 0/ 327312 0Q10

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	2.1		073	4 njgm	K	0/ j8A j 82 26: A2	0/ jA2 j 82 2 2 3 A3	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150			0/ 33 3 1 1: 731	0/ 31 3 1 1/ 734	1

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOt RDli R Q t emi	LD		80	4 njgm	K	0/ j85 j82 2 2 2	0/ jA0 j82 2 2 56	2
TPH as r dtdxgil Ranf e	61		80	4 njgm	K	0/ j85 j82 2 2 2	0/ jA0 j82 2 2 56	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	9/		50 - 150			0/ 35 3 1 1/ 719	0/ 30 3 1 1/ 73	1

Client Sample ID: S-7.5-g 6 Dz P

Lab Sample ID: 570-67725-2/

Date Cdlle8tec: 0/ 327312 0/ :00

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	55		AT	4 njgm	K	0/ j8A j 82 26: A2	0/ jA2 j 82 8A: 33	80
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	1: 5	S1+	50 - 150			0/ 33 3 1 1: 731	0/ 31 3 1 63 7 4	60

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 naIAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 naIAFec	Dil ya8
TPH as Diesel Ranf e	2200		5T	4 njgm	K	0/ j85 j 82 2 2 2	0/ jA0 j 82 2. :27	2
TPH as r dtdxgil Ranf e	16		5T	4 njgm	K	0/ j85 j 82 2 2 2	0/ jA0 j 82 2. :27	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	16/		50 - 150			0/ 35 3 1 1/ 719	0/ 30 3 1 19 7 8	1

SHodeR1t Q li e, i NN1



# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j / l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 6 0 3 0

Job ID: 570-67725-2

Client Sample ID: S-1.5-M4

Lab Sample ID: 570-67725-20

Date Cdlle8tec: 0/ 327312 0Q40

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	2700	H	2.0	4 njgm	K	0/38A82 26:A2	0/302j82 20:52	2000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 150			0/3331 1: 731	0920131 1071	1000

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	Q40		575	4 njgm	K	0/385j82 20:80	0/3A0j82 2.:A	2
TPH as r dtdxgil Ranf e	Q5		575	4 njgm	K	0/385j82 20:80	0/3A0j82 2.:A	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	10:		50 - 150			0/3531 1/ 760	0/3031 1979	1

Client Sample ID: S-5-M4

Lab Sample ID: 570-67725-10

Date Cdlle8tec: 0/ 327312 0Q45

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	110	H	220	4 njgm	K	0/38A82 26:A2	0/302j82 00:38	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136		50 - 150			0/3331 1: 731	0920131 0076	500

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	710		670	4 njgm	K	0/385j82 20:80	0/3A2j82 25:80	2
TPH as r dtdxgil Ranf e	200		670	4 njgm	K	0/385j82 20:80	0/3A2j82 25:80	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	139		50 - 150			0/3531 1/ 760	0/3131 1576	1

Client Sample ID: S-7.5-M4

Lab Sample ID: 570-67725-12

Date Cdlle8tec: 0/ 327312 0Qv0

r atxio: Sdllic

Date Re8eihec: 0/ 32/ 312 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	21		078A	4 njgm	K	0/38A82 26:A2	0/3A2j82 8A:25	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	193	S1+	50 - 150			0/3331 1: 731	0/3131 6375	1

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9c O t RDli R Q t emi	LD		678	4 njgm	K	0/385j82 20:88	0/38. j82 26:80	2
9c O t Rx orbau lQ t emi	LD		678	4 njgm	K	0/385j82 20:88	0/38. j82 26:80	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	115		50 - 150			0/3531 1/ 766	0/3931 1: 76	1

SHodeR1 t Q li e, i NN1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j / l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 6 0 3 0

Job ID: 570-67725-2

Client Sample ID: S-1.5-g 1

Date Cdlle8tec: 0/ 3/23/2 20:05

Date Re8eihec: 0/ 3/ 3/2 20:25

Lab Sample ID: 570-67725-11

r atxio: Sdllic

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	0.15		0B8	4 njgm	K	0J8Aj82 26:A2	0JA2j82 2.:85	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 0		50 - 150			0/ 3331 1: 731	0/ 3131 1975	1

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	v5		62	4 njgm	K	0J85j82 20:88	0J8. j82 26:50	2
TPH as r dtdxgil Ranf e	v7		62	4 njgm	K	0J85j82 20:88	0J8. j82 26:50	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	161		50 - 150			0/ 3531 1/ 76	0/ 3931 1: 70	1

Client Sample ID: S-5-g 1

Date Cdlle8tec: 0/ 3/23/2 20:20

Date Re8eihec: 0/ 3/ 3/2 20:25

Lab Sample ID: 570-67725-14

r atxio: Sdllic

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOtRGtRb0i (13-12A)	LD		020	4 njgm	K	0J8Aj82 26:A2	0JA2j82 2.:52	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	0	S1-	50 - 150			0/ 3331 1: 731	0/ 3131 1971	1

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOtRDliRQtemi	LD		28	4 njgm	K	0J85j82 20:88	0J8. j82 27:22	8
TPH as r dtdxgil Ranf e	67		28	4 njgm	K	0J85j82 20:88	0J8. j82 27:22	8
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/:		50 - 150			0/ 3531 1/ 76	0/ 3931 1871	6

Client Sample ID: S-7.5-g 1

Date Cdlle8tec: 0/ 3/23/2 20:25

Date Re8eihec: 0/ 3/ 3/2 20:25

Lab Sample ID: 570-67725-1v

r atxio: Sdllic

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	5.v		0B7	4 njgm	K	0J8Aj82 26:A2	0JA2j82 80:26	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		50 - 150			0/ 3331 1: 731	0/ 3131 6071:	1

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Diesel Ranf e	1v0		73	4 njgm	K	0J85j82 20:88	0J8. j82 27:AA	5
TPH as r dtdxgil Ranf e	2v00		73	4 njgm	K	0J85j82 20:88	0J8. j82 27:AA	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	16/		50 - 150			0/ 3531 1/ 76	0/ 3931 1873	5

SHodeR1t Q li e, i NN1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j / l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 6 0 3 0

Job ID: 570-67725-2

Client Sample ID: S-20-g 1

Lab Sample ID: 570-67725-15

Date Cdlle8tec: 0/ 3/23/2 20:10

r atxio: Sdllic

Date Re8eihhec: 0/ 3/ 3/2 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
TPH as Gasdline (Cv-C24)	2.4		0.66	4 njgm	K	0.78A82 26:A2	0.7A2j82 80:38	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	9		50 - 150			0/ 3331 1: 71	0/ 3131 60:76	1

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOt RDli R Q t emi	LD		2.	4 njgm	K	0.785j82 2:88	0.78. j82 27:53	2
9cOt Rx orbau lQ t emi	LD		2.	4 njgm	K	0.785j82 2:88	0.78. j82 27:53	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	119		50 - 150			0/ 3531 1/ 76	0/ 3931 18:74	1

Client Sample ID: S-21.5-g 1

Lab Sample ID: 570-67725-16

Date Cdlle8tec: 0/ 3/23/2 20:15

r atxio: Sdllic

Date Re8eihhec: 0/ 3/ 3/2 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOt RGt Rb i (1 3-1 2A)	LD	O	0.65	4 njgm	K	0.78A82 26:A2	0. j02j82 20:00	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		50 - 150			0/ 3331 1: 71	092131 10:00	1

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOt RDli R Q t emi	LD		6A	4 njgm	K	0.785j82 2:88	0.78. j82 2:27	2
TPH as r dtdxg il Ranf e	2v		6A	4 njgm	K	0.785j82 2:88	0.78. j82 2:27	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	4		50 - 150			0/ 3531 1/ 76	0/ 3931 1/ 78	1

Client Sample ID: S-26-M4

Lab Sample ID: 570-67725-17

Date Cdlle8tec: 0/ 3/23/2 0Qv5

r atxio: Sdllic

Date Re8eihhec: 0/ 3/ 3/2 20:25

r etNdc: MWTPH-Go - MdxNwest - Vdlatile Petxdleum Pxdcu8ts (GC)

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOt RGt Rb i (1 3-1 2A)	LD		0.65	4 njgm	K	0.78A82 26:A2	0.7A2j82 8A:05	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	5		50 - 150			0/ 3331 1: 71	0/ 3131 63:05	1

r etNdc: MWTPH-Do - MdxNwest - Semi-Vdlatile Petxdleum Pxdcu8ts (GC) - Sili8a Gel Cleanup

9 nalAte	Result	Uualiqex	RL	z nit	D	Pxepaxec	9 nalAFec	Dil ya8
9cOt RDli R Q t emi	LD		22	4 njgm	K	0.785j82 2:88	0.78. j82 2:8A	2
TPH as r dtdxg il Ranf e	25		22	4 njgm	K	0.785j82 2:88	0.78. j82 2:8A	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		50 - 150			0/ 3531 1/ 76	0/ 3931 1/ 79	1

SHodeR1 t Q li e, i NN1

# 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

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dm, Qr i d P1C: j // ol S ob 2ED4 c0x9MM760MD

Job ID: 570-67795-9

## 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
Ad3 eTHeTo2 Cs4 M4 9xG	( D		0)N5	. mgm			0KdNkN9 Nk:MN	9
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		85 - 085				51/71/70 72:47	0

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
Ad3 eTHeTo2 Cs4 M4 9xG	N)9x	N)97N		. mgm		90N	77 - 9NK
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	36		85 - 085				

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
Ad3 eTHeTo2 Cs4 M4 9xG	N)90	N)975		. mgm		90M	77 - 9NK	0	96
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	18		85 - 085						

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
Ad3 eTHeTo2 Cs4 M4 9xG	( D		0)N5	. mgm			0Kx9dN9 0K:9x	9
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	39		85 - 085				51/20/70 51:02	0

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
Ad3 eTHeTo2 Cs4 M4 9xG	N)9N	9)76N		. mgm		Kx	77 - 9NK
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		85 - 085				

j 8roul T 4 e2r Q rCff 4



# QC Sample Results

4 20 i: 4 ert l oall r  
dm,QriP1C:j //ol Sob2ED4 c0x9MM760M0

Job ID: 570-67795-9

## 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
Ad3 eTHeTo2 Cs4 M4 9xG	N)9N	9)75L		. mgm		Kx	77 - 9NK	0	96
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	95		85 - 085						

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
Ad3 eTHeTo2 Cs4 M4 9xG	( D		5)0	. mgm			0Kx9dN 0L:90	N0
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	34		85 - 085				51/20/70 59:05	75

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		
Ad3 eTHeTo2 Cs4 M4 9xG	N)90	N)9MK		. mgm		90N	77 - 9NK		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	10		85 - 085						

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
Ad3 eTHeTo2 Cs4 M4 9xG	N)9x	N)0ND		. mgm		L5	77 - 9NK	6	96
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	10		85 - 085						

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
Ad3 eTHeTo2 Cs4 M4 9xG	( D		0)N5	. mgm			0Kx9dN 0D:MM	9
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	31		85 - 085				51/20/70 75:44	0

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# QC Sample Results

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dm, QriP1C: j // ol Sob 2ED4 c0x9MM760MD

Job ID: 570-67795-9

## 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
Ad3 eTHeTo2 Cs4 M4 9xG	( D		5)0	. mgm			0Kx9dN9 N9:9L	N0
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	39		85 - 085				51/20/70 70:09	75

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	
Ad3 eTHeTo2 Cs4 M4 9xG	N)9N	N)095		. mgm		L5	77 - 9NK	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	056		85 - 085					

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
Ad3 eTHeTo2 Cs4 M4 9xG	N)99	N)0N6		. mgm		L6	77 - 9NK	9	96
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	051		85 - 085						

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
Ad3 eTHeTo2 Cs4 M4 9xG	( D		5)0	. mgm			0Kx9dN9 Nk:17	N0
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	31		85 - 085				51/20/70 72:43	75

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
Ad3 eTHeTo2 Cs4 M4 9xG	( D		0)N5	. mgm			0Ld09dN9 00:9x	9
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	10		85 - 085				59/50/70 55:02	0

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# QC Sample Results

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dm, Qr i d P1C: j // ol S ob 2ED4 c0x9MM760MD

Job ID: 570-67795-9

## 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
Ad3 eT HeTo2 Cs4 M4 9xG	N)9x	9)7L6		. mgm		KM	77 - 9NK
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	19		85 - 085				

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
Ad3 eT HeTo2 Cs4 M4 9xG	N)9x	9)K5K		. mgm		K7	77 - 9NK	x	96
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		85 - 085						

## 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
Ad3 eT D1CTC2Rel nC	( D		5)0	. mgm		0KdN5dN9 9K:9L	0KdN5dN9 96:07	9
Ad3 eT SoionO2Rel nC	( D		5)0	. mgm		0KdN5dN9 9K:9L	0KdN5dN9 96:07	9
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	075		85 - 085	51/78/70 01:09	51/79/70 06:53	0		

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
Ad3 eT D1CTC2s4 90-4 NKG	M00	M07)L		. mgm		90N	76 - 9N6
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	075		85 - 085				

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
Ad3 eT S oionO2s4 97-4 MMG	M00	M0)5		. mgm		905	79 - 9xL
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	006		85 - 085				

j 8roul T 4 e2r Q rCff 4

# QC Sample Results

4 20 i: 4 ert l oall r  
dm, QidP1C: j // ol Sob 2ED4 c0x9MM760M0

Job ID: 570-67795-9

## 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
Ad3 eT D CTC2s4 90-4 NKG	M00	MNKL		. mgm		907	76 - 9N6	5	ND
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	009		85 - 085						

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
Ad3 eT S oionO 2s4 97-4 MMG	M00	M0Nj6		. mgm		909	79 - 9xL	M	ND
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	008		85 - 085						

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
Ad3 eT D CTC2s4 90-4 NKG	6L00		M6M	65xx	M	. mgm	✱	-7M	x7 - 975		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	020		85 - 085								

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
Ad3 eT S oionO 2s4 97-4 MMG	5500	j FN	M65	M69	j M	. mgm	✱	-9L7	79 - 97M		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	057		85 - 085								

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
Ad3 eT D CTC2s4 90-4 NKG	6L00		M00	7ML	M	. mgm	✱	9N7	x7 - 975	9x	ND
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	074		85 - 085								

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# QC Sample Results

4 20 i: 4 ert l oall r  
dm, Qr i P1C: j // ol S ob 2ED4 c0x9MM760MD

Job ID: 570-67795-9

## 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
Ad3 eTS oionO 2s4 97-4 MMG	5500	j FN	MM	K769	j MFN	. mgm	*	7MM	79 - 97M	6x	ND
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	071		85 - 085								

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
Ad3 eTD CTC2Rel nC	( D		5)0	. mgm		0KdN5dN 9K:NN	0KdN5dN 9N:xx	9
Ad3 eTS oionO 2Rel nC	( D		5)0	. mgm		0KdN5dN 9K:NN	0KdN5dN 9N:xx	9
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	075		85 - 085	51/78/70 01:77	51/79/70 07:22	0		

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

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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

Analysis Date: 11/21/20							Rep Date: 11/23/20		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ad3 eTS oionO 2s4 97-4 MMG			M00	Mk9)x		. mgm		90K	79 - 9xL
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
n-Octacosane (Surr)	001		85 - 085						

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
Ad3 eTD CTC2s4 90-4 NKG	M00	Mk7)N		. mgm		90L	76 - 9N6	x	ND
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	075		85 - 085						

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# QC Sample Results

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dm, Qr i P1C: j // ol S ob 2ED4 c0x9MM760MD

Job ID: 570-67795-9

## 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
Ad3 eT S oion O 2s4 97-4 MMG			M00	Mxx)x		. mgm		90K	79 - 9xL	0	ND
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	075		85 - 085								

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		
Ad3 eT D CTC2s4 90-4 NKG	69		ML	57L)5		. mgm	✱	906	x7 - 975		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	008		85 - 085								

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		
Ad3 eT S oion O 2s4 97-4 MMG	K7		ML7	5xM)0		. mgm	✱	LN	79 - 97M		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	008		85 - 085								

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
Ad3 eT D CTC2s4 90-4 NKG	69		ML7	600)L		. mgm	✱	90L	x7 - 975	M	ND
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	070		85 - 085								

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
Ad3 eT S oion O 2s4 97-4 MMG	K7		ML0	5Mx)M		. mgm	✱	L5	79 - 97M	N	ND
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	008		85 - 085								

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# 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

Eurofins Calscience LLC

# 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  
 1 roectj/ ite: SEEnx obil MDC j 0A23376030

Job ID: 570-67725-2

**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
TotaljNM	1 re4	50A5			7.02Z g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		50	5 mL	5 mL	2757A7	0ZjA2j82 25:2A	MØVS	SCL 8
Instrument ID: GC2										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.87 g	20 mL	273AZ3	0Zj85j82 22:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		5			27588Z	0ZjA0j82 20:33	N2M	SCL 2
Instrument ID: GC3Z										

**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
TotaljNM	1 re4	50A5			5.05 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		500	5 mL	5 mL	2757A7	0ZjA2j82 27:A7	MØVS	SCL 8
Instrument ID: GC2										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.0Z g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			275886	0ZjA0j82 03:35	MØW	SCL 2
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
TotaljNM	1 re4	50A5			8.358 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		500	5 mL	5 mL	2757A7	0ZjA2j82 2Z:02	MØVS	SCL 8
Instrument ID: GC2										
/ ilica Gel Cleanu4	1 re4	A550C / GC	DL		20.09 g	20 mL	273AZ3	0Zj85j82 22:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE	DL	20			275AAA	0ZjA0j82 27:83	UJAK	SCL 2
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
TotaljNM	1 re4	50A5			3.8 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		850	5 mL	5 mL	2757A7	0ZjA2j82 26:39	MØVS	SCL 8
Instrument ID: GC2										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.09 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		8			275886	0ZjA0j82 05:86	MØW	SCL 2
Instrument ID: GC50										

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A23376030

Job ID: 570-67725-2

**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
TotaljNM	1 re4	50A5			6.367 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	2752Z8	0Zj89j82 00:89	12R	SCL 8
Instrument ID: GC57										
/ ilica Gel Cleauu4	1 re4	A550C / GC			20.80 g	20 mL	273AZ3	0Zj85j82 22:29	U/ UL	SCL 2
/ ilica Gel Cleauu4	Mhalysis	NWT1H-DE		2			275886	0ZjA0j82 05:3Z	M2W	SCL 2
Instrument ID: GC50										

**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
TotaljNM	1 re4	50A5			5.235 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		850	5 mL	5 mL	2757A7	0ZjA2j82 26:85	M9VS	SCL 8
Instrument ID: GC2										
/ ilica Gel Cleauu4	1 re4	A550C / GC			20.A3 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleauu4	Mhalysis	NWT1H-DE		20			275886	0ZjA0j82 20:23	M2W	SCL 2
Instrument ID: GC50										

**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
TotaljNM	1 re4	50A5			7.5A2 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		8500	5 mL	5 mL	2757A7	0ZjA2j82 2Z:85	M9VS	SCL 8
Instrument ID: GC2										
/ ilica Gel Cleauu4	1 re4	A550C / GC			20.27 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleauu4	Mhalysis	NWT1H-DE		20			275886	0ZjA0j82 20:A3	M2W	SCL 2
Instrument ID: GC50										

**Client Sample ID: S-7.5-O6**

**Lab Sample ID: 570-67715-8**

**Date Collected: 08/17/21 07:45**

**Matrix: Solid**

**Date Received: 08/18/21 10:15**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re4	50A5			6.273 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		200	5 mL	5 mL	2757A7	0ZjA2j82 25:A6	M9VS	SCL 8
Instrument ID: GC2										
/ ilica Gel Cleauu4	1 re4	A550C / GC			20.A6 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleauu4	Mhalysis	NWT1H-DE		2			275886	0ZjA0j82 06:3Z	M2W	SCL 2
Instrument ID: GC50										



# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A23376030

Job ID: 570-67725-2

**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
TotaljNM	1 re4	50A5			6.638 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		8500	5 mL	5 mL	2757A7	0ZjA2j82 2Z:39	M9VS	SCL 8
Instrument ID: GC2										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.89 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1 H-DE		2			275886	0ZjA0j82 07:0Z	M2W	SCL 2
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
TotaljNM	1 re4	50A5			7.888 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		200	5 mL	5 mL	2757A7	0ZjA2j82 26:02	M9VS	SCL 8
Instrument ID: GC2										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.28 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1 H-DE		8			275886	0ZjA0j82 07:8Z	M2W	SCL 2
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
TotaljNM	1 re4	50A5			3.A07 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		500	5 mL	5 mL	2757A7	0ZjA2j82 27:2A	M9VS	SCL 8
Instrument ID: GC2										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.AA g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1 H-DE		50			275AAA	0ZjA0j82 27:33	UJAK	SCL 2
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
TotaljNM	1 re4	50A5			3.Z83 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1 H-GE		200	5 mL	5 mL	275Z39	09j02j82 00:2A	12R	SCL 8
Instrument ID: GC85										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.27 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1 H-DE		5			275305	0ZjA0j82 27:09	N2M	SCL 2
Instrument ID: GC3Z										

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# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A23376030

Job ID: 570-67725-2

**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
TotaljNM	1 re4	50A5			7.828 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	275903	0ZjA2j82 8A:89	12R	SCL 8
Instrument ID: GC56										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.0Ag	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			275305	0ZjA0j82 27:A0	N2M	SCL 2
Instrument ID: GC3Z										

**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
TotaljNM	1 re4	50A5			6.523 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	275903	0ZjA2j82 8A:5A	12R	SCL 8
Instrument ID: GC56										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.35 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			275305	0ZjA0j82 27:52	N2M	SCL 2
Instrument ID: GC3Z										

**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
TotaljNM	1 re4	50A5			7.329 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	27539A	0ZjA2j82 29:00	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.00 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			275305	0ZjA0j82 2Z:2A	N2M	SCL 2
Instrument ID: GC3Z										

**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
TotaljNM	1 re4	50A5			6.223 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		80	5 mL	5 mL	275ZZ6	09j02j82 20:85	M9VS	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.5Ag	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			275305	0ZjA2j82 25:06	N2M	SCL 2
Instrument ID: GC3Z										

Surofins Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A23376030

Job ID: 570-67725-2

**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
TotaljNM	1 re4	50A5			6.7AZ g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	27539A	0ZjA2j82 2Z:A3	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.07 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			275305	0ZjA0j82 2Z:56	N2M	SCL 2
Instrument ID: GC3Z										

**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
TotaljNM	1 re4	50A5			7.589 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		80	5 mL	5 mL	275Z39	0ZjA2j82 8A:33	12R	SCL 8
Instrument ID: GC85										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.23 g	20 mL	273AZ3	0Zj85j82 2Z:29	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			275305	0ZjA0j82 29:27	N2M	SCL 2
Instrument ID: GC3Z										

**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
TotaljNM	1 re4	50A5			7.887 g	5 mL	27A703	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2000	5 mL	5 mL	275ZZ6	09j02j82 20:52	MØVS	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.26 g	20 mL	273AZ3	0Zj85j82 2Z:80	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			275305	0ZjA0j82 29:A9	N2M	SCL 2
Instrument ID: GC3Z										

**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
TotaljNM	1 re4	50A5			6.958 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		500	5 mL	5 mL	275Z39	09j02j82 00:38	12R	SCL 8
Instrument ID: GC85										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.09 g	20 mL	273AZ3	0Zj85j82 2Z:80	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			275305	0ZjA2j82 25:8Z	N2M	SCL 2
Instrument ID: GC3Z										

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A23376030

Job ID: 570-67725-2

**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
TotaljNM	1 re4	50A5			6.26 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	275Z39	0ZjA2j82 8A:25	12R	SCL 8
Instrument ID: GC85										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.A5 g	20 mL	273AZ5	0Zj85j82 2Z:88	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			27588Z	0Zj89j82 26:8Z	N2M	SCL 2
Instrument ID: GC3Z										

**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
TotaljNM	1 re4	50A5			6.97A g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	27539A	0ZjA2j82 29:85	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.83 g	20 mL	273AZ5	0Zj85j82 2Z:88	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			27588Z	0Zj89j82 26:50	N2M	SCL 2
Instrument ID: GC3Z										

**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
TotaljNM	1 re4	50A5			Z.867 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	27539A	0ZjA2j82 29:52	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.22 g	20 mL	273AZ5	0Zj85j82 2Z:88	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		8			27588Z	0Zj89j82 27:22	N2M	SCL 2
Instrument ID: GC3Z										

**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
TotaljNM	1 re4	50A5			Z.029 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	27539A	0ZjA2j82 80:26	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.23 g	20 mL	273AZ5	0Zj85j82 2Z:88	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		5			27588Z	0Zj89j82 27:AA	N2M	SCL 2
Instrument ID: GC3Z										

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A23376030

Job ID: 570-67725-2

**Client Sample ID: S-10-O2**

**Lab Sample ID: 570-67715-25**

**Date Collected: 08/17/21 10:20**

**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
TotaljNM	1 re4	50A5			7.295 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	27539A	0ZjA2j82 80:38	12R	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.0Z g	20 mL	273AZ5	0Zj85j82 2Z:88	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			27588Z	0Zj89j82 27:53	N2M	SCL 2
Instrument ID: GC3Z										

**Client Sample ID: S-12.5-O2**

**Lab Sample ID: 570-67715-26**

**Date Collected: 08/17/21 10:25**

**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
TotaljNM	1 re4	50A5			6.8ZA g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	275ZZ6	09j02j82 20:00	MØVS	SCL 8
Instrument ID: GC88										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.28 g	20 mL	273AZ5	0Zj85j82 2Z:88	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			27588Z	0Zj89j82 2Z:27	N2M	SCL 2
Instrument ID: GC3Z										

**Client Sample ID: S-16-N3**

**Lab Sample ID: 570-67715-27**

**Date Collected: 08/17/21 09:45**

**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
TotaljNM	1 re4	50A5			9.32 g	5 g	27A70A	0Zj8Aj82 26:A2	SDp3	SCL 8
TotaljNM	Mhalysis	NWT1H-GE		2	5 g	5 mL	275903	0ZjA2j82 8A:05	12R	SCL 8
Instrument ID: GC56										
/ ilica Gel Cleanu4	1 re4	A550C / GC			20.26 g	20 mL	273AZ5	0Zj85j82 2Z:88	U/ UL	SCL 2
/ ilica Gel Cleanu4	Mhalysis	NWT1H-DE		2			27588Z	0Zj89j82 2Z:A9	N2M	SCL 2
Instrument ID: GC3Z										

## Laboratory References:

SCL 2 = Surofins Calscience LLC Lincoln, 7330 Lincoln Way, Garden Grove, CM98Z32, TSL (723)Z95-5393

SCL 8 = Surofins Calscience LLC Lam4son, 7335 Lam4son Mve, Garden Grove, CM98Z32, TSL (723)Z95-5393

Accreditation/Certification Summary

Client: Cardno, Inc  
3roPctj/ ite: SEEnx obil MDC j 0A14476040

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	/ tate	C916-18	10-11-21

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



# Method Summary

4 20 i: 4 ert l oall r

dm,QriP1C:j //ol Sob2ED4 c0x9MM760M0

Job ID: 570-67795-9

Method	Method Description	Protocol	Laboratory
A3 NdWT/	AoriHGChi - wo2i1CdQro2sV drot srih uT 4 m	A3 NdW	j 4( )
A3 NdWD/	AoriHGChi - PCV t wo2i1CdQro2sV drot srih uT 4 m	A3 NdW	j 4( 9
x5504 PT4	82rehol t j /ireri'bl	P3 LM6	j 4( 9
50x5	42hQ P UhiCV dsryCel t Nreg	P3 LM6	j 4( )

## Protocol References:

A3 NdWp AoriHGChi Nbie2dQro2sV WUt rorerbol

P3 LM6 p =NChi S QHbt h " onj Fe2ei1 y Po2t 3 ehiCadHUht e24 HCV t e2S QHbt h=aNHft j t 1bl aAoFCV bQn9vL6 El t lih 8gt eiCh.

## Laboratory References:

j 4( 9 p j srof1 h 4 e2r Q rC(( 4 ( 1 ro2 a7MM0 ( 1 ro2 3 eLaTert Q T roFCa4 E v) LM0aNj ( u79Mh v5-5MwM

j 4( ) p j srof1 h 4 e2r Q rC(( 4 ( eVghol a7MM5 ( eVghol EFCaTert Q T roFCa4 E v) LM0aNj ( u79Mh v5-5MwM

j srof1 h 4 e2r Q rC(( 4



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 8/17/2021

PAGE 1 OF 2

ExxonMobil Engr Jennifer Sadiachok

LABORATORY CLIENT <b>Cardno</b>		ADDRESS 309 South Cloverdale Street Unit A13		CITY Seattle, WA 98108		TEL 206-510-5855		FAX N/A		E-MAIL robert.thompson@cardno.com		TURNAROUND TIME <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 checked="" 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. Include % Moisture in report for dry weight correction. Report to: lina.cole@cardno.com, robert.thompson@cardno.com All units in mg/kg. Report to: lina.cole@cardno.com, robert.thompson@cardno.com, and cameron.penner-ash@cardno.com		GLOBAL ID # COELT LOG CODE: P O 0314476040 Agreement# A2604415			
PROJECT CONTACT: <b>Robert Thompson</b>												LAB USE ONLY COOLER RECEIPT		TERMS 25C							
SAMPLER(S) <b>Paul Prevou, John Considine</b>																					
REQUESTED ANALYSIS																					
														570-6715 Chain of Custody							
Perform MS/MSD												NMT/PH-GX TPH as Gasoline		NMT/PH-DX TPH as Diesel and Motor Oil		CONTAINER TYPE					
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 0800		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
11 S-5-N5												N5		8/17/2021 0805		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
12 S-7.5-N5												N5		8/17/2021 0810		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
13 S-10-N5												N5		8/17/2021 0815		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
14 S-12.5-N5												N5		8/17/2021 0820		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
15 S-2.5-O4												O4		8/17/2021 0825		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
16 S-5-O4												O4		8/17/2021 0830		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
17 S-7.5-O4												O4		8/17/2021 0835		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
18 S-10-O4												O4		8/17/2021 0840		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
19 S-12.5-O4												O4		8/17/2021 0845		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
20 DUP												DUP		8/17/2021 0850		S		4		2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	
S-7.5-O6 DUP																					
Trip Blank-EGST												Trip Blank-EGST		8/17/2021		S					
S-7.5-O6 DUP																					
Paul Prevou																					
Received by (Signature)																					
Received by (Signature)																					
Received by (Signature)																					
Date, & Time																					
8/17/2021 4 15 00 PM																					
Date, & Time																					
8/18/21																					
Date, & Time																					
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,

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)



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---

**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. < <





07715



7440 LINCOLN WAY  
CALCISCENCE 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		GLOBAL ID # COELT LOG CODE:		P O 0314476040; Agreement# A2604415						
ADDRESS: 309 South Cloverdale Street Unit A13		PROJECT CONTACT: Robert Thompson		LAB USE ONLY: COOLER RECEIPT						
CITY: Seattle, WA 98108		SAMPLER(S): Paul Prevou, John Considine		TEMP: 25°C						
TEL: 206-510-5855		TURNAROUND TIME: 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								
<input type="checkbox"/> SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)		<input checked="" type="checkbox"/> ARCHIVE SAMPLES UNTIL: / /								
<input type="checkbox"/> RWQCB REPORTING										
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 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
19	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
20	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
21	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
22	S-10-N3	N3	8/17/2021	0945	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
23	S-12.5-N3	N3	8/17/2021	0950	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
24	S-15-N3	N3	8/17/2021	1005	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
25	S-17.5-N3	N3	8/17/2021	1010	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
26	S-20-N3	N3	8/17/2021	1015	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
27	S-22.5-N3	N3	8/17/2021	1020	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
28	S-25-N3	N3	8/17/2021	1025	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
29	S-27.5-N3	N3	8/17/2021	1030	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
30	S-30-N3	N3	8/17/2021	1035	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
31	S-32.5-N3	N3	8/17/2021	1040	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
32	S-35-N3	N3	8/17/2021	1045	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
33	S-37.5-N3	N3	8/17/2021	1050	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
34	S-40-N3	N3	8/17/2021	1055	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
35	S-42.5-N3	N3	8/17/2021	1100	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
36	S-45-N3	N3	8/17/2021	1105	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
37	S-47.5-N3	N3	8/17/2021	1110	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
38	S-50-N3	N3	8/17/2021	1115	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
39	S-52.5-N3	N3	8/17/2021	1120	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
40	S-55-N3	N3	8/17/2021	1125	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
41	S-57.5-N3	N3	8/17/2021	1130	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
42	S-60-N3	N3	8/17/2021	1135	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
43	S-62.5-N3	N3	8/17/2021	1140	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
44	S-65-N3	N3	8/17/2021	1145	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
45	S-67.5-N3	N3	8/17/2021	1150	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
46	S-70-N3	N3	8/17/2021	1155	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
47	S-72.5-N3	N3	8/17/2021	1200	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
48	S-75-N3	N3	8/17/2021	1205	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
49	S-77.5-N3	N3	8/17/2021	1210	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
50	S-80-N3	N3	8/17/2021	1215	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
51	S-82.5-N3	N3	8/17/2021	1220	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
52	S-85-N3	N3	8/17/2021	1225	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
53	S-87.5-N3	N3	8/17/2021	1230	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
54	S-90-N3	N3	8/17/2021	1235	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
55	S-92.5-N3	N3	8/17/2021	1240	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
56	S-95-N3	N3	8/17/2021	1245	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
57	S-97.5-N3	N3	8/17/2021	1250	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
58	S-100-N3	N3	8/17/2021	1255	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
59	S-102.5-N3	N3	8/17/2021	1300	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
60	S-105-N3	N3	8/17/2021	1305	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
61	S-107.5-N3	N3	8/17/2021	1310	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
62	S-110-N3	N3	8/17/2021	1315	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
63	S-112.5-N3	N3	8/17/2021	1320	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
64	S-115-N3	N3	8/17/2021	1325	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
65	S-117.5-N3	N3	8/17/2021	1330	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
66	S-120-N3	N3	8/17/2021	1335	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
67	S-122.5-N3	N3	8/17/2021	1340	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
68	S-125-N3	N3	8/17/2021	1345	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
69	S-127.5-N3	N3	8/17/2021	1350	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
70	S-130-N3	N3	8/17/2021	1355	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
71	S-132.5-N3	N3	8/17/2021	1400	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
72	S-135-N3	N3	8/17/2021	1405	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
73	S-137.5-N3	N3	8/17/2021	1410	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
74	S-140-N3	N3	8/17/2021	1415	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
75	S-142.5-N3	N3	8/17/2021	1420	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
76	S-145-N3	N3	8/17/2021	1425	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
77	S-147.5-N3	N3	8/17/2021	1430	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
78	S-150-N3	N3	8/17/2021	1435	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
79	S-152.5-N3	N3	8/17/2021	1440	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
80	S-155-N3	N3	8/17/2021	1445	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
81	S-157.5-N3	N3	8/17/2021	1450	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
82	S-160-N3	N3	8/17/2021	1455	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
83	S-162.5-N3	N3	8/17/2021	1500	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
84	S-165-N3	N3	8/17/2021	1505	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
85	S-167.5-N3	N3	8/17/2021	1510	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
86	S-170-N3	N3	8/17/2021	1515	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
87	S-172.5-N3	N3	8/17/2021	1520	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
88	S-175-N3	N3	8/17/2021	1525	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
89	S-177.5-N3	N3	8/17/2021	1530	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
90	S-180-N3	N3	8/17/2021	1535	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
91	S-182.5-N3	N3	8/17/2021	1540	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
92	S-185-N3	N3	8/17/2021	1545	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
93	S-187.5-N3	N3	8/17/2021	1550	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
94	S-190-N3	N3	8/17/2021	1555	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
95	S-192.5-N3	N3	8/17/2021	1600	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
96	S-195-N3	N3	8/17/2021	1605	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
97	S-197.5-N3	N3	8/17/2021	1610	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
98	S-200-N3	N3	8/17/2021	1615	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
99	S-202.5-N3	N3	8/17/2021	1620	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
100	S-205-N3	N3	8/17/2021	1625	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
101	S-207.5-N3	N3	8/17/2021	1630	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
102	S-210-N3	N3	8/17/2021	1635	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
103	S-212.5-N3	N3	8/17/2021	1640	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
104	S-215-N3	N3	8/17/2021	1645	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
105	S-217.5-N3	N3	8/17/2021	1650	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
106	S-220-N3	N3	8/17/2021	1655	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
107	S-222.5-N3	N3	8/17/2021	1700	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
108	S-225-N3	N3	8/17/2021	1705	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
109	S-227.5-N3	N3	8/17/2021	1710	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
110	S-230-N3	N3	8/17/2021	1715	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
111	S-232.5-N3	N3	8/17/2021	1720	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
112	S-235-N3	N3	8/17/2021	1725	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
113	S-237.5-N3	N3	8/17/2021	1730	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
114	S-240-N3	N3	8/17/2021	1735	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
115	S-242.5-N3	N3	8/17/2021	1740	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
116	S-245-N3	N3	8/17/2021	1745	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
117	S-247.5-N3	N3	8/17/2021	1750	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
118	S-250-N3	N3	8/17/2021	1755	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
119	S-252.5-N3	N3	8/17/2021	1800	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
120	S-255-N3	N3	8/17/2021	1805	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
121	S-257.5-N3	N3	8/17/2021	1810	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
122	S-260-N3	N3	8/17/2021	1815	S	4		X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar
123	S-262.5-N3	N3	8/17/2021	1820	S	4		X	X	2 Sodium Bisulfate VOAs, 1

67715

Due to

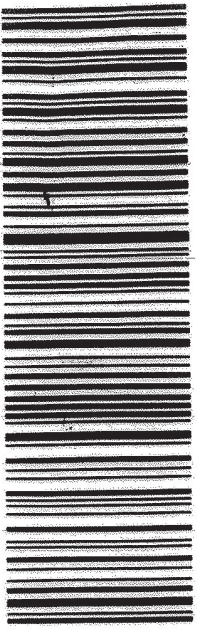
66297-86 BBP EXP 02/22

WED - 18 AUG 10:30A  
PRIORITY OVERNIGHT

FedEx  
TRK# 8037 1524 5070  
0200

NSR  
92841  
CA-US SNA

92 APVA



560LL/BRFS/FEA



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 $\leq$ 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 $<6\text{mm}$ (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

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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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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  
1 roectj/ ite: SEEonx obil MDC j 0A43376030

Job ID: 570-67856-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67856-4	/ -2.5-B3	/ olid	08j48j24 07:05	08j20j24 09:A0
570-67856-2	/ -5-B3	/ olid	08j48j24 07:40	08j20j24 09:A0
570-67856-A	/ -40-B3	/ olid	08j48j24 07:45	08j20j24 09:A0
570-67856-3	/ -2.5-u5	/ olid	08j48j24 07:35	08j20j24 09:A0
570-67856-5	/ -5-u5	/ olid	08j48j24 07:50	08j20j24 09:A0
570-67856-6	/ -7.5-u5	/ olid	08j48j24 07:55	08j20j24 09:A0
570-67856-7	/ -40-u5	/ olid	08j48j24 08:00	08j20j24 09:A0
570-67856-8	/ -42.5-u5	/ olid	08j48j24 08:05	08j20j24 09:A0
570-67856-9	/ -2.5-x 6	/ olid	08j48j24 08:A0	08j20j24 09:A0
570-67856-40	/ -5-x 6	/ olid	08j48j24 08:A5	08j20j24 09:A0
570-67856-44	/ -7.5-x 6	/ olid	08j48j24 08:30	08j20j24 09:A0
570-67856-42	/ -40-x 6	/ olid	08j48j24 08:35	08j20j24 09:A0
570-67856-4A	/ -42.5-x 6	/ olid	08j48j24 08:50	08j20j24 09:A0
570-67856-43	/ -2.5-u7	/ olid	08j48j24 09:05	08j20j24 09:A0
570-67856-45	/ -5-u7	/ olid	08j48j24 09:40	08j20j24 09:A0
570-67856-46	/ -7.5-u7	/ olid	08j48j24 09:45	08j20j24 09:A0
570-67856-47	/ -40-u7	/ olid	08j48j24 09:20	08j20j24 09:A0
570-67856-48	/ -42.5-u7	/ olid	08j48j24 09:25	08j20j24 09:A0
570-67856-49	/ -45-B3	/ olid	08j48j24 07:20	08j20j24 09:A0



## 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

2 10 e 2 ntai or li d  
, tot de j @ : / SSoi E obCx D2 P0M4AA760A0

Job ID: 570-67956-4

## Client Sample ID: S-2.5-K4

## Lab Sample ID: 570-67856-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	570		) 7	. nfgm	500	3	KN ☼ T-s S	☼benFKx
☼ T nHDCH 1Whi ml	5900		5A	. nfgm	40	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	4A0		5pA	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-5-K4

## Lab Sample ID: 570-67856-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0p )		0p84	. nfgm	4	3	KN ☼ T-s S	☼benFKx
☼ T nHE oet u QWhi ml	) p4		5p	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-10-K4

## Lab Sample ID: 570-67856-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0p7		0p50	. nfgm	4	3	KN ☼ T-s S	☼benFKx
☼ T nHDCH 1Whi ml	) p5		6p7	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	4A		6p7	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-2.5-L5

## Lab Sample ID: 570-67856-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	4M00		) 6	. nfgm	500	3	KN ☼ T-s S	☼benFKx
☼ T nHE oet u QWhi ml	500		5p5	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHDCH 1Whi ml - Df	9700		55	. nfgm	40	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-5-L5

## Lab Sample ID: 570-67856-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	9A0		840	. nfgm	500	3	KN ☼ T-s S	☼benFKx
☼ T nHDCH 1Whi ml	A600		450	. nfgm	80	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	890		450	. nfgm	80	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-7.5-L5

## Lab Sample ID: 570-67856-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	0p 0		0pMM	. nfgm	4	3	KN ☼ T-s S	☼benFKx
☼ T nHDCH 1Whi ml - Wk	460		7p5	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml - Wk	460		7p5	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-10-L5

## Lab Sample ID: 570-67856-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	9)		46	. nfgm	50	3	KN ☼ T-s S	☼benFKx
☼ T nHDCH 1Whi ml - Wk	4700		7p4	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml - Wk	600		7p4	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

☼hGIDI e deoi j Q . nty aol Hi oeCd1Cal tnaQdhl . Qn1e HbtI HOH-p

/ QtoLCH2n1HdCi dl ff 2

# Detection Summary

2 10 e 2 ntai or li d  
, tot ddf @ : / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67956-4

## Client Sample ID: S-12.5-L5

## Lab Sample ID: 570-67856-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet u QWhi ml	8M		80	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-2.5-M6

## Lab Sample ID: 570-67856-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb Cl Q A-24M	4500		440	. mfgm	500	3	KN ☼ T-s S	☼ ben FKx
☼ T nHDCH 1Whi ml	40000		440	. mfgm	80	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	4400		440	. mfgm	80	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-5-M6

## Lab Sample ID: 570-67856-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb Cl Q A-24M	4800		4M0	. mfgm	500	3	KN ☼ T-s S	☼ ben FKx
☼ T nHDCH 1Whi ml	AA00		60	. mfgm	40	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	680		60	. mfgm	40	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-7.5-M6

## Lab Sample ID: 570-67856-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb Cl Q A-24M	67		) p4	. mfgm	80	3	KN ☼ T-s S	☼ ben FKx
☼ T nHDCH 1Whi ml	60		9p8	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	8A0		9p8	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-10-M6

## Lab Sample ID: 570-67856-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb Cl Q A-24M	9p5		0pAA	. mfgm	4	3	KN ☼ T-s S	☼ ben FKx
☼ T nHDCH 1Whi ml	6) 0		9p	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	) M0		9p	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-12.5-M6

## Lab Sample ID: 570-67856-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHDCH 1Whi ml	480		4)	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	890		4)	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-2.5-L7

## Lab Sample ID: 570-67856-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb Cl Q A-24M	A40		5A	. mfgm	850	3	KN ☼ T-s S	☼ ben FKx
☼ T nHDCH 1Whi ml - Df	A700		55	. mfgm	40	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml - Df	8000		55	. mfgm	40	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

☼ hGDI d dcoi j Q . nty aol Hi oeCd'Cal tnaQdhl . Qn1d HbtI HOH-p

/ QtoLCH2n1HdCi dl ff 2

# Detection Summary

2 10 e 2 ntai or li d

, tot de j @ : / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67956-4

## Client Sample ID: S-5-L7

## Lab Sample ID: 570-67856-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	980		490	. mfgm	500	3	KN ☼ T-s S	☼ben FKx
☼ T nHE oet u QWhi ml	M40		76	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR
☼ T nHDCH 1Whi ml - Df	A5000		760	. mfgm	400	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR

## Client Sample ID: S-7.5-L7

## Lab Sample ID: 570-67856-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	8) 0		89	. mfgm	50	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml	44000		) )	. mfgm	40	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR
☼ T nHE oet u QWhi ml	5400		) )	. mfgm	40	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR

## Client Sample ID: S-10-L7

## Lab Sample ID: 570-67856-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	A40		440	. mfgm	850	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml	4A00		49	. mfgm	8	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR
☼ T nHE oet u QWhi ml	900		49	. mfgm	8	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR

## Client Sample ID: S-12.5-L7

## Lab Sample ID: 570-67856-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet u QWhi ml	7M		89	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR

## Client Sample ID: S-15-K4

## Lab Sample ID: 570-67856-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	88		0p94	. mfgm	4	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml	65		48	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR
☼ T nHE oet u QWhi ml	56		48	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR

# Client Sample Results

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

Job ID: 570-67856-1

Client Sample ID: S-2.5-NM

Lab Sample ID: 570-67156-3

Date Cdlle8tec: 01/31/23 07:05

r atxio: Sdllic

Date Re8eivec: 01/20/23 0h:V0

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wxdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	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)	86		50 - 650	08/14/16 6232	0: 106/16 0736	500

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wxdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	5100		54	mg/Kg	☆	08/25/21 18:16	09/03/21 13:08	10
Gw as r dtdxKil Ran9e	3M0		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)	647		50 - 650	08/15/16 6832	0: 10/16 0: 36/	6
n-Octacosane (Surr)	656	S69	50 - 650	08/15/16 6832	0: 107/16 67308	60

Client Sample ID: S-5-NM

Lab Sample ID: 570-67156-2

Date Cdlle8tec: 01/31/23 07:30

r atxio: Sdllic

Date Re8eivec: 01/20/23 0h:V0

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wxdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	0.hh		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)	676		50 - 650	08/14/16 6232	0: 106/16 0: 368	6

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wxdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
TPH as Diesel Range	ND		5.9	mg/Kg	☆	08/25/21 18:16	09/02/21 09:34	1
Gw as r dtdxKil Ran9e	h.3		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)	666		50 - 650	08/15/16 6832	0: 10/16 0: 374	6

Client Sample ID: S-30-NM

Lab Sample ID: 570-67156-V

Date Cdlle8tec: 01/31/23 07:35

r atxio: Sdllic

Date Re8eivec: 01/20/23 0h:V0

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wxdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	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)	2	S6-	50 - 650	08/14/16 6232	0: 106/16 07308	6

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wxdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	h.5		6.7	mg/Kg	☆	08/25/21 18:16	09/02/21 09:56	1
Gw as r dtdxKil Ran9e	3M		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)	60+		50 - 650	08/15/16 6832	0: 10/16 0: 32	6

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-L5

Date Cdlle8tec: 01/31/23 07:M5

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-M

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wxdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	3V00		96	mg/Kg	☆	08/24/21 16:26	09/01/21 03:45	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	5/		50 - 650	08/14/16 6232	0: 106/16 073/5	500

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wxdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as r dtdx Kil Ran9e	500		5.5	mg/Kg	☆	08/25/21 18:16	09/02/21 11:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	6/ 6		50 - 650	08/15/16 6832	0: 10/16 663/6	6

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wxdcu8ts A Cy- Sili8a ( el Cleanup - DL

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	1700		55	mg/Kg	☆	08/25/21 18:16	09/02/21 19:56	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	640		50 - 650	08/15/16 6832	0: 10/16 6: 32	60

Client Sample ID: S-5-L5

Date Cdlle8tec: 01/31/23 07:50

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-5

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wxdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	1M0		210	mg/Kg	☆	08/24/21 16:26	09/01/21 04:09	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 650	08/14/16 6232	0: 106/16 043/	500

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wxdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	1600		150	mg/Kg	☆	08/25/21 18:16	09/02/21 11:23	20

Gw as r dtdx Kil Ran9e	210		150	mg/Kg	☆	08/25/21 18:16	09/02/21 11:23	20
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	: 8		50 - 650	08/15/16 6832	0: 10/16 663/7	/ 0

Client Sample ID: S-7.5-L5

Date Cdlle8tec: 01/31/23 07:55

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-6

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wxdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	0.h0		0.33	mg/Kg	☆	08/24/21 16:26	09/01/21 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 2		50 - 650	08/14/16 6232	0: 106/16 073/	6

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wxdcu8ts A Cy- Sili8a ( el Cleanup - RF

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	360		7.5	mg/Kg	☆	08/25/21 18:16	09/02/21 20:18	1

Gw as r dtdx Kil Ran9e	360		7.5	mg/Kg	☆	08/25/21 18:16	09/02/21 20:18	1
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Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67856-1

Client Sample ID: S-7.5-L5

Date Cdlle8tec: 01/31/23 07:55

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-6

r atxio: Sdllic

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	640		50 - 650	08/15/16 68362	0: 10/16/038	6

Client Sample ID: S-30-L5

Date Cdlle8tec: 01/31/23 01:00

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-7

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wdcu8ts A Cy									
Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8	
Gw as ( asdlne ACMC3W)	1h		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 - 650	08/14/16 6232	0: 106/160: 37	50			

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wdcu8ts A Cy- Sili8a ( el Cleanup - RF

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8	
Gw as Diesel Ran9e	3700		7.1	mg/Kg	☆	08/25/21 18:16	09/02/21 20:41	1	
Gw as r dtdx Kil Ran9e	600		7.1	mg/Kg	☆	08/25/21 18:16	09/02/21 20:41	1	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-Octacosane (Surr)	678		50 - 650	08/15/16 68362	0: 10/16/036	6			

Client Sample ID: S-32.5-L5

Date Cdlle8tec: 01/31/23 01:05

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-1

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wdcu8ts A Cy									
Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8	
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 - 650	08/14/16 6232	0: 106/160735	6			

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8	
TPH as Diesel Range	ND		20	mg/Kg	☆	08/25/21 18:16	09/02/21 12:28	1	
Gw as r dtdx Kil Ran9e	2W		20	mg/Kg	☆	08/25/21 18:16	09/02/21 12:28	1	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-Octacosane (Surr)	52		50 - 650	08/15/16 68362	0: 10/166/38	6			

Client Sample ID: S-2.5-r 6

Date Cdlle8tec: 01/31/23 01:V0

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-h

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wdcu8ts A Cy									
Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8	
Gw as ( asdlne ACMC3W)	3500		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 - 650	08/14/16 6232	0: 106/16043+	500			

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-r 6

Lab Sample ID: 570-67156-h

Date Cdlle8tec: 01/31/23 01:V0

r atxio: Sdllic

Date Re8eivec: 01/20/23 0h:V0

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdlcum wxdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	30000		110	mg/Kg	✱	08/25/21 18:16	09/02/21 12:49	20
Gw as r dtdx Kil Ran9e	3300		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)	66/		50 - 650			08/15/16 68362	0: 10/16 6/3/	/0

Client Sample ID: S-5-r 6

Lab Sample ID: 570-67156-30

Date Cdlle8tec: 01/31/23 01:V5

r atxio: Sdllic

Date Re8eivec: 01/20/23 0h:V0

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdlcum wxdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	3200		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)	26		50 - 650			08/14/16 6232	0: 106/16 053/	500

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdlcum wxdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	MM0		60	mg/Kg	✱	08/25/21 18:16	09/02/21 13:11	10
Gw as r dtdx Kil Ran9e	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)	6/ 2		50 - 650			08/15/16 68362	0: 10/16 67366	60

Client Sample ID: S-7.5-r 6

Lab Sample ID: 570-67156-33

Date Cdlle8tec: 01/31/23 01:M0

r atxio: Sdllic

Date Re8eivec: 01/20/23 0h:V0

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdlcum wxdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	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)	: 7		50 - 650			08/14/16 6232	0: 106/16 603 +	/0

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdlcum wxdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	60		8.2	mg/Kg	✱	08/25/21 18:16	09/02/21 13:32	1
Gw as r dtdx Kil Ran9e	2M0		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)	6/ 6		50 - 650			08/15/16 68362	0: 10/16 673/	6

Client Sample ID: S-30-r 6

Lab Sample ID: 570-67156-32

Date Cdlle8tec: 01/31/23 01:M5

r atxio: Sdllic

Date Re8eivec: 01/20/23 0h:V0

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdlcum wxdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	1.5		0.44	mg/Kg	✱	08/24/21 16:26	09/01/21 04:43	1

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67856-1

Client Sample ID: S-30-r 6

Date Cdlle8tec: 01/31/23 01:M5

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-32

r atxio: Sdllic

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8:		50 - 650			08/14/16 6232	0:106/16 0437	6
r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wxdcu8ts A Cy- Sili8a ( el Cleanup								
Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	6h0		8.9	mg/Kg	☼	08/25/21 18:16	09/02/21 13:54	1
Gw as r dtdx Kil Ran9e	hV0		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)	6/:		50 - 650			08/15/16 6832	0:10/16 6734	6

Client Sample ID: S-32.5-r 6

Date Cdlle8tec: 01/31/23 01:50

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-3V

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wxdcu8ts A Cy								
Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
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)	24		50 - 650			08/14/16 6232	0:106/16 0830+	6
r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wxdcu8ts A Cy- Sili8a ( el Cleanup								
Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	320		19	mg/Kg	☼	08/25/21 18:16	09/02/21 14:15	1
Gw as r dtdx Kil Ran9e	210		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)	664		50 - 650			08/15/16 6832	0:10/16 6435	6

Client Sample ID: S-2.5-L7

Date Cdlle8tec: 01/31/23 0h:05

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-3V

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wxdcu8ts A Cy								
Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as ( asdlne APMC3V	MB0		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)	56		50 - 650			08/14/16 6232	0:106/16 0532	/ 50
r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wxdcu8ts A Cy- Sili8a ( el Cleanup - DL								
Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	M700		55	mg/Kg	☼	08/25/21 18:16	09/02/21 21:03	10
Gw as r dtdx Kil Ran9e	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)	647		50 - 650			08/15/16 6832	0:10/16 / 6307	60

# Client Sample Results

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

Job ID: 570-67856-1

Client Sample ID: S-5-L7

Date Cdlle8tec: 01/31/23 0h:30

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-35

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	120		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 - 650	08/14/16 6232	0: 06/16 0230	500

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as r dtdx Kil Ran9e	V80		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)	6/ 4		50 - 650	08/15/16 6832	0: 0/ 1/ 6 6435	6

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wdcu8ts A Cy- Sili8a ( el Cleanup - DL

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	M5000		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)	645		50 - 650	08/15/16 6832	0: 07/16 6435	600

Client Sample ID: S-7.5-L7

Date Cdlle8tec: 01/31/23 0h:35

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-36

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	2h0		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)	665		50 - 650	08/14/16 6232	0: 06/16 6037	50

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	33000		99	mg/Kg	☆	08/25/21 18:18	09/02/21 15:21	10

Gw as r dtdx Kil Ran9e	5300		99	mg/Kg	☆	08/25/21 18:18	09/02/21 15:21	10
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	65/	S69	50 - 650	08/15/16 6838	0: 0/ 1/ 6 6536	60

Client Sample ID: S-30-L7

Date Cdlle8tec: 01/31/23 0h:20

Date Re8eivec: 01/20/23 0h:V0

Lab Sample ID: 570-67156-37

r atxio: Sdllic

r etTdc: PH Gw-( o - PdxT) est - 4dlatile wetxdleum wdcu8ts A Cy

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as ( asdlne ACMC3W)	M80		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)	56		50 - 650	08/14/16 6232	0: 06/16 0235	/ 50

r etTdc: PH Gw-Do - PdxT) est - Semi-4dlatile wetxdleum wdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wæpaxec	F nalzQec	Dil Ua8
Gw as Diesel Ran9e	3M00		18	mg/Kg	☆	08/25/21 18:18	09/02/21 15:42	2

Gw as r dtdx Kil Ran9e	100		18	mg/Kg	☆	08/25/21 18:18	09/02/21 15:42	2
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Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67856-1

Client Sample ID: S-30-L7

Date Cdlle8tec: 01/31/23 0h:20

Date Re8eivec: 01/20/23 0h:W0

Lab Sample ID: 570-67156-37

r atxio: Sdllic

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	676		50 - 650	08/15/16 68368	0: 10/16 6534/	/

Client Sample ID: S-32.5-L7

Date Cdlle8tec: 01/31/23 0h:25

Date Re8eivec: 01/20/23 0h:W0

Lab Sample ID: 570-67156-31

r atxio: Sdllic

r etTdc: PH GW-( o - PdxT) est - 4dlatile wetxdlcum wxdcu8ts A Cy									
Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8	
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)	+0		50 - 650	08/14/16 62322	0: 10/16 08376	6			

r etTdc: PH GW-Do - PdxT) est - Semi-4dlatile wetxdlcum wxdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8	
TPH as Diesel Range	ND		28	mg/Kg	☆	08/25/21 18:18	09/02/21 16:04	1	
GW as r dtdx Kil Ran9e	7W		28	mg/Kg	☆	08/25/21 18:18	09/02/21 16:04	1	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-Octacosane (Surr)	22		50 - 650	08/15/16 68368	0: 10/16 6234	6			

Client Sample ID: S-35-NM

Date Cdlle8tec: 01/31/23 07:20

Date Re8eivec: 01/20/23 0h:W0

Lab Sample ID: 570-67156-3h

r atxio: Sdllic

r etTdc: PH GW-( o - PdxT) est - 4dlatile wetxdlcum wxdcu8ts A Cy									
Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8	
GW as ( asdline A CMC3W)	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)	: 0		50 - 650	08/14/16 62322	0: 10/16 0834	6			

r etTdc: PH GW-Do - PdxT) est - Semi-4dlatile wetxdlcum wxdcu8ts A Cy- Sili8a ( el Cleanup

Fnalzte	Result	g ualiQex	RL	f nit	D	wxepaxec	F nalzQec	Dil Ua8	
GW as Diesel Ran9e	65		12	mg/Kg	☆	08/25/21 18:18	09/02/21 16:25	1	
GW as r dtdx Kil Ran9e	56		12	mg/Kg	☆	08/25/21 18:18	09/02/21 16:25	1	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-Octacosane (Surr)	66:		50 - 650	08/15/16 68368	0: 10/16 6235	6			



# 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+

Eurofins Calscience LLC

# 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

2 10 e 2 nta i or li d

, tot de p @ : / SSoi E ob Qx D2 POM#AA760A0

Job ID: 570-67956-4

## 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
3, . nmg nm 10 l 12 A-24M	8 D		0 TF5	s RNR			090414 0HMH	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 150				0/ 2121 03:73	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
3, . nmg nm 10 l 12 A-24M	8 D		5 D	s RNR			090414 0H57	H0
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		50 - 150				0/ 2121 03:50	30

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	
3, . nmg nm 10 l 12 A-24M	H RH	4 D04		s RNR		95	77 - 4H9	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	06		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
3, . nmg nm 10 l 12 A-24M	H R0	4 D H9		s RNR		97	77 - 4H9	H	46
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	0		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
3, . nmg nm 10 l 12 A-24M	8 D		0 TF5	s RNR			090414 HHA0	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	60		50 - 150				062121 33:40	1

/ ( to ) Cm 2 n 1 d Ci dl uu 2

# QC Sample Results

2 Di e 2 ntai or li d  
, tot d e p : / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67956-4

## 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
3, . nmg nm0C1 K2 A-2 4M0	H0H	H0H0		s RNR		66	77 - 4H0
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	100		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
3, . nmg nm0C1 K2 A-2 4M0	H00	H049		s RNR		404	77 - 4H0	A	46
Surrogate	%Recovery	LCSD Qualifier	Limits						
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
3, . nmDCnt 1f ni R	8D		5D	s RNR		09P5P4 49:46	0G04P4 4GH4	4
3, . nmE oet L Qf ni R	8D		5D	s RNR		09P5P4 49:46	0G04P4 4GH4	4
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-c t a t o9sne (Surr)	108		50 - 150	0625231 16:18	0/ 201231 1/:31	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
3, . nmDCnt 1K2 40-2 H00	A00	A50T		s RNR		44M	76 - 4H6
Surrogate	%Recovery	LCS Qualifier	Limits				
n-c t a t o9sne (Surr)	133		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
3, . nmE oet L QK2 47-2 AA0	A00	A56TH		s RNR		44A	74 - 4MG
Surrogate	%Recovery	LCS Qualifier	Limits				
n-c t a t o9sne (Surr)	115		50 - 150				

/ ( to)Cm2 n1dCi dl uu2

# QC Sample Results

2 10 e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Cx D2 POM#AA760A0

Job ID: 570-67956-4

## 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
3, . nmDCnt 1K2 40-2 H9	A00	AMG9		s RNR		440	76 - 4H6	H	H
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-c t æt o9sne (Surr)	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
3, . nmE oæt L QK2 47-2 AA	A00	AAM4		s RNR		444	74 - 4MG	M	H
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-c t æt o9sne (Surr)	116		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
3, . nmDCnt 1K2 40-2 H9	44000		A54	H070	/ A	s RNR		45A5	M - 475		
Surrogate	%Recovery	MS Qualifier	Limits								
n-c t æt o9sne (Surr)	377	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
3, . nmE oæt L QK2 47-2 AA	A000		A56	A695	/ A	s RNR		45M	74 - 47A		
Surrogate	%Recovery	MS Qualifier	Limits								
n-c t æt o9sne (Surr)	11/		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
3, . nmDCnt 1K2 40-2 H9	44000		A57	H4A0	/ A	s RNR		45M6	M - 475	M	H
Surrogate	%Recovery	MSD Qualifier	Limits								
n-c t æt o9sne (Surr)	335	S1+	50 - 150								

/ ( to)Cm2 n1ndCi dl uu2

# QC Sample Results

2 10 e 2 ntai or li d

, tot de / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67956-4

## 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3, . nmE oæt L QK 47-2 AA	A000		A5G	5479	/ A	s RNR	o	H5G	74 - 47A	40	H0
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-c t æt o9sne (Surr)	110		50 - 150								



# 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	
LCSD 570-175894/6	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

### Analysis Batch: 175904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-67856-2	S-5-K4	Total/NA	Solid	NWTPH-Gx	174021
570-67856-3	S-10-K4	Total/NA	Solid	NWTPH-Gx	174021
570-67856-6	S-7.5-L5	Total/NA	Solid	NWTPH-Gx	174021
570-67856-8	S-12.5-L5	Total/NA	Solid	NWTPH-Gx	174021
570-67856-12	S-10-M6	Total/NA	Solid	NWTPH-Gx	174021
570-67856-13	S-12.5-M6	Total/NA	Solid	NWTPH-Gx	174021
570-67856-18	S-12.5-L7	Total/NA	Solid	NWTPH-Gx	174021
570-67856-19	S-15-K4	Total/NA	Solid	NWTPH-Gx	174021

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# QC Association Summary

Client: Cardno, Inc  
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

Eurofins Calscience LLC

# 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  
1 roPctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67856-4

**Client Sample ID: S-2.5-N1**

**Date Collecte8: 03/MB/2M07:05**

**Date Receive8: 03/20/2M0T:y0**

**Lab Sample ID: 570-67356-N**

**x atrid: Soli8**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or unalP4e8	unalPzt	Lab
9otaljTM	1 rep	50A5			7M68 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	4758V3	0Vj04j24 0A:24	MmrS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M2 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 0V:42	T4M	SCL 4
Instrug ent ID: GC38										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M2 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		40			476550	0Vj0Aj24 4A:08	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-5-N1**

**Date Collecte8: 03/MB/2M07:M0**

**Date Receive8: 03/20/2M0T:y0**

**Lab Sample ID: 570-67356-2**

**x atrid: Soli8**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or unalP4e8	unalPzt	Lab
9otaljTM	1 rep	50A5			7M2V .	5 .	473024	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	475V03	0Vj04j24 0V:48	14R	SCL 2
Instrug ent ID: GC56										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M3 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 0V:A3	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-M0-N1**

**Date Collecte8: 03/MB/2M07:M5**

**Date Receive8: 03/20/2M0T:y0**

**Lab Sample ID: 570-67356-y**

**x atrid: Soli8**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or unalP4e8	unalPzt	Lab
9otaljTM	1 rep	50A5			A1343 .	5 .	473024	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	475V03	0Vj04j24 0A:08	14R	SCL 2
Instrug ent ID: GC56										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M6 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 0V:56	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-2.5-L5**

**Date Collecte8: 03/MB/2M07:15**

**Date Receive8: 03/20/2M0T:y0**

**Lab Sample ID: 570-67356-1**

**x atrid: Soli8**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or unalP4e8	unalPzt	Lab
9otaljTM	1 rep	50A5			7M34 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	4758V3	0Vj04j24 0A:35	MmrS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M8 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 44:04	T4M	SCL 4
Instrug ent ID: GC38										

Surofins Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
1 roectj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67856-4

**Client Sample ID: S-2.5-L5**

**Lab Sample ID: 570-67356-1**

**Date Collecte8: 03/MB/2M07:15**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
/ ilica Gel Cleanup	1 rep	A550C / GC	DL		40M8 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	DL	40			476433	0Vj02j24 4V:56	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-5-L5**

**Lab Sample ID: 570-67356-5**

**Date Collecte8: 03/MB/2M07:50**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			3M68 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	4758V3	0Vj04j24 03:0V	MmS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC			40MA .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		20			476433	0Vj02j24 44:2A	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-7.5-L5**

**Lab Sample ID: 570-67356-6**

**Date Collecte8: 03/MB/2M07:55**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			5M6 .	5 .	473024	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	475V03	0Vj04j24 0A:A2	14R	SCL 2
Instrug ent ID: GC56										
/ ilica Gel Cleanup	1 rep	A550C / GC	RM		40M5 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	RM	4			476433	0Vj02j24 20:48	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-M0-L5**

**Lab Sample ID: 570-67356-7**

**Date Collecte8: 03/MB/2M03:00**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			5M4 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		50	5 g L	5 g L	4758V3	0Vj04j24 0V:AV	MmS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC	RM		40M4 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	RM	4			476433	0Vj02j24 20:34	T4M	SCL 4
Instrug ent ID: GC38										

# Lab Chronicle

Client: Cardno, Inc  
1 roPctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67856-4

**Client Sample ID: S-M2.5-L5**

**Lab Sample ID: 570-67356-3**

**Date Collecte8: 03/MB/2M03:05**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			ANV7 .	5 .	473024	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	475V03	0Vj04j24 0A:55	14R	SCL 2
Instrug ent ID: GC56										
/ ilica Gel Cleanup	1 rep	A550C / GC			40MA .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 42:28	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-2.5-x 6**

**Lab Sample ID: 570-67356-T**

**Date Collecte8: 03/MB/2M03:y0**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			6N64 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	4758V3	0Vj04j24 03:57	MmS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M0 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		20			476433	0Vj02j24 42:3V	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-5-x 6**

**Lab Sample ID: 570-67356-M0**

**Date Collecte8: 03/MB/2M03:y5**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			5NV3 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	4758V3	0Vj04j24 05:22	MmS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M6 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		40			476433	0Vj02j24 4A:44	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-7.5-x 6**

**Lab Sample ID: 570-67356-M**

**Date Collecte8: 03/MB/2M03:10**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			3N06 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		20	5 g L	5 g L	4758V3	0Vj04j24 40:27	MmS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M3 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 4A:A2	T4M	SCL 4
Instrug ent ID: GC38										



# Lab Chronicle

Client: Cardno, Inc  
 1 roPctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67856-4

**Client Sample ID: S-M0-x 6**

**Lab Sample ID: 570-67356-M2**

**Date Collecte8: 03/MB/2M03:15**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			5084 .	5 .	473024	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	475V03	0Vj04j24 03:3A	14R	SCL 2
Instrug ent ID: GC56										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M4 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 4A:53	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-M2.5-x 6**

**Lab Sample ID: 570-67356-My**

**Date Collecte8: 03/MB/2M03:50**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			AN02 .	5 .	473024	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	475V03	0Vj04j24 08:07	14R	SCL 2
Instrug ent ID: GC56										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M4 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 43:45	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-2.5-L7**

**Lab Sample ID: 570-67356-M**

**Date Collecte8: 03/MB/2M0T:05**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			6N53 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		250	5 g L	5 g L	4758V3	0Vj04j24 05:36	MmrS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC	DL		40M8 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	DL	40			476433	0Vj02j24 24:0A	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-5-L7**

**Lab Sample ID: 570-67356-M5**

**Date Collecte8: 03/MB/2M0T:M0**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			5N2 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	4758V3	0Vj04j24 06:40	MmrS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M8 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 43:5V	T4M	SCL 4
Instrug ent ID: GC38										
/ ilica Gel Cleanup	1 rep	A550C / GC	DL		40M8 .	40 g L	473A8A	08j25j24 48:46	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	DL	400			476550	0Vj0A24 43:45	T4M	SCL 4
Instrug ent ID: GC38										

Surofins Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67856-4

**Client Sample ID: S-7.5-L7**

**Lab Sample ID: 570-67356-M6**

**Date Collecte8: 03/MB/2M0T:M5**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			3M65 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		50	5 g L	5 g L	4758V3	0Vj04j24 40:0A	MmS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M3 .	40 g L	473A8A	08j25j24 48:48	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		40			476433	0Vj02j24 45:24	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-M0-L7**

**Lab Sample ID: 570-67356-M7**

**Date Collecte8: 03/MB/2M0T:20**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			5M02 .	5 g L	473022	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		250	5 g L	5 g L	4758V3	0Vj04j24 06:5V	MmS	SCL 2
Instrug ent ID: GC4										
/ ilica Gel Cleanup	1 rep	A550C / GC			40MV .	40 g L	473A8A	08j25j24 48:48	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		2			476433	0Vj02j24 45:32	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-M2.5-L7**

**Lab Sample ID: 570-67356-M8**

**Date Collecte8: 03/MB/2M0T:25**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			AN52 .	5 .	473024	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	475V03	0Vj04j24 08:A4	14R	SCL 2
Instrug ent ID: GC56										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M5 .	40 g L	473A8A	08j25j24 48:48	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 46:03	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-M5-N1**

**Lab Sample ID: 570-67356-M9**

**Date Collecte8: 03/MB/2M0T:20**

**x atrid: Soli8**

**Date Receive8: 03/20/2M0T:y0**

s rep BPpe	Aatch BPpe	Aatch x etho8	RFn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repare8 or u nalP4e8	u nalPzt	Lab
9otaljTM	1 rep	50A5			AN25 .	5 .	473024	08j23j24 46:26	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	475V03	0Vj04j24 08:53	14R	SCL 2
Instrug ent ID: GC56										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M2A .	40 g L	473A8A	08j25j24 48:48	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 46:25	T4M	SCL 4
Instrug ent ID: GC38										

## LaboratorP Referencez:

SCL 4 = Surofins Calscience LLC Lincoln, 7330 Lincoln Way, Garden Grove, CMV2834, 9SL (743)8V5-53V3

SCL 2 = Surofins Calscience LLC Lag pson, 7335 Lag pson Mve, Garden Grove, CMV2834, 9SL (743)8V5-53V3

Surofins Calscience LLC

Accreditation/Certification Summary

Client: Cardno, Inc  
1 roPctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67856-4

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	/ tate	C946-48	40-44-24

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

## Method Summary

2 10 e 2 ntai or li d

Job ID: 570-67956-4

, tot de p @ : / SSoi E obCx D2 P0M#AA760A0

Method	Method Description	Protocol	Laboratory
3 N W T-HS	3 oteChl we- sohe3 , l do1 Vu , toaVdevrh12(	3 N W T	/ 2 ) L
3 N W T-DS	3 oteChl we- j l u Gsohe3 , l do1 Vu , toaVdevrh12(	3 N W T	/ 2 ) 4
M502 j H2	8 tinwoi d / Sanderi	j N 9A6	/ 2 ) 4
50M5	2 bw a j Uve u , Vtyl ni a Wng	j N 9A6	/ 2 ) L

### Protocol References:

3 N W T p 3 oteChl weVden1, l do1 Vu TLatodntboi

j N 9A6 p =VweEl eGaw" ot / FnVneCy j o1a Nnwe r , GUCh 12 G u Gn1El eGawr WGa / aGoi r 3 oFl u bl t 4v96 xi a lew8 gané w

### Laboratory References:

/ 2 ) 4 p / VtofCw2n1wdCi dl ))2 ) Cdo1 r 7AA0 ) Cdo1 N nU r Hntal i HtoFl r 2 x vL9A4r W ) n74A(9v5-5AvA

/ 2 ) L p / VtofCw2n1wdCi dl ))2 ) nu gwoi r 7AA5 ) nu gwoi xFl r Hntal i HtoFl r 2 x vL9A4r W ) n74A(9v5-5AvA

/ VtofCw2n1wdCi dl ))2



# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67856-4

Login Number: 67586

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Question	Answer	Comment
AadioactiRtv y awn& c' eched or iwk 1 bach=round awmeasured by a wurRev meterg	N1	
. ' e coolersvcuwtodv weal, iTf rewent, iwintactg	. rue	
pamf le cuwtodv wealw, iTf rewent, are intactg	. rue	
. ' e cooler or wamf lewdo not af f ear to ' aRe been comf romiwed or tamf ered y it' g	. rue	
pamf lewy ere receiRed on iceg	. rue	
Cooler . emf erature iwaccef tableg	. rue	
Cooler . emf erature iwrecordedg	. rue	
CSC iwf rewentg	. rue	
CSC iwTiled out in inh and le=ibleg	. rue	
CSC iwTiled out y it' all f ertinent inTormationg	. rue	
Iwt' e Qeld pamf lersvname f rewent on CSCF	. rue	
. ' ere are no diwcref anciewbety een t' e containerwreceiRed and t' e CSCg	. rue	
pamf leware receiRed y it' in ? oldin= . ime He(cludin= tewtwy it' immediate ? . vx	. rue	
pamf le containerw' aRe le=ible labelwg	. rue	
Containerware not brohen or leahin=g	. rue	
pamf le collection date timeware f roRdedg	. rue	
/ f f rof riate wamf le containerware uwedg	. rue	
pamf le bottleware comf letelv Tiledg	. rue	
pamf le ) reverRation PeriTedg	. rue	
. ' ere iwuwTticient RblgTr all reVuewted analvwew, inclganv reVuewted q p 1q p Mw	. rue	
ContainerwreVuirin= Dero ' eadwf ace ' aRe no ' eadwf ace or bubble iw k6mm H4z"xg	. rue	
q ultif ' awic wamf leware not f rewentg	. rue	
pamf lewdo not reVuire wf littin= or comf owitin=g	. rue	
Aewidual C' lorine C' echedg	N1	



## 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

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results through  
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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  
1 roectj/ ite: SEE onx obil MDC j 0A43376030

Job ID: 570-67857-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-67857-4	/ -2.5-B6	/ olid	08j48j24 09:30	08j20j24 09:A0
570-67857-2	/ -5-B6	/ olid	08j48j24 09:35	08j20j24 09:A0
570-67857-A	/ -7.5-B6	/ olid	08j48j24 09:50	08j20j24 09:A0
570-67857-3	/ -40-B6	/ olid	08j48j24 09:55	08j20j24 09:A0
570-67857-5	/ -42.5-B6	/ olid	08j48j24 40:00	08j20j24 09:A0
570-67857-6	/ -2.5-B8	/ olid	08j48j24 40:05	08j20j24 09:A0
570-67857-7	/ -5-B8	/ olid	08j48j24 40:40	08j20j24 09:A0
570-67857-8	/ -7.5-B8	/ olid	08j48j24 40:45	08j20j24 09:A0
570-67857-9	/ -40-B8	/ olid	08j48j24 42:00	08j20j24 09:A0
570-67857-40	/ -42.5-B8	/ olid	08j48j24 40:25	08j20j24 09:A0
570-67857-44	/ -5-u9	/ olid	08j48j24 40:30	08j20j24 09:A0
570-67857-42	/ -40-u9	/ olid	08j48j24 40:35	08j20j24 09:A0
570-67857-4A	/ -42.5-u9	/ olid	08j48j24 40:50	08j20j24 09:A0
570-67857-43	/ -2.5-x 8	/ olid	08j48j24 40:55	08j20j24 09:A0
570-67857-45	/ -5-x 8	/ olid	08j48j24 44:00	08j20j24 09:A0
570-67857-46	/ -7.5-x 8	/ olid	08j48j24 44:05	08j20j24 09:A0
570-67857-47	/ -40-x 8	/ olid	08j48j24 44:40	08j20j24 09:A0
570-67857-48	/ -42.5-x 8	/ olid	08j48j24 44:45	08j20j24 09:A0
570-67857-49	/ -2-u9	/ olid	08j48j24 40:A5	08j20j24 09:A0

# Definitions/Glossary

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

Job ID: 570-67857-1

## Qualifiers

### GC VOA

Qualifier	Qualifier Description
S1u	Sgrrovate recovers exceedmcontrol liwitm . iv. bianedT

### GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: h. e analste prenent in t. e orivinal nawple imvreater t. an 4 tiwemt. e watrix npike concentration; t. erefore, control liwitmare not applicableT
E	Reugt exceeded calibration ranvet
S1-	Sgrrovate recovers exceedmcontrol liwitm lo+ bianedT
S1u	Sgrrovate recovers exceedmcontrol liwitm . iv. bianedT

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Limited gnder t. e "D" colgwn to denivnate t. at t. e reugt imreported on a drs + eiv. t banim
%R	Percent Recovers
CFL	ContainmFree Liqqid
CFU	Colons Forwinv Unit
CNF	ContainmNo Free Liqqid
DER	Dgplcate Error Ratio (norwalized abnolgte difference)
Dil Fac	Dilgtion Factor
DL	Detection Liwit (DoD/DOE)
DL, RA, RE, IN	Indicatema Dilgtion, Re-analsnim, Re-extraction, or additional Initial wetalndianion analsnimof t. e nawple
DLC	Decinion Leyel Concentration (Radioc. ewintrs)
EDL	Entiwated Detection Liwit (Dioxin)
LOD	Liwit of Detection (DoD/DOE)
LOQ	Liwit of Qgantitation (DoD/DOE)
MCL	EPA recowwended "Maxiwgw Contawinant Leyel"
MDA	Miniwgw Detectable Actiyits (Radioc. ewintrs)
MDC	Miniwgw Detectable Concentration (Radioc. ewintrs)
MDL	Met. od Detection Liwit
ML	Miniwgw Leyel (Dioxin)
MPN	Mont Probable Ngwber
MQL	Met. od Qgantitation Liwit
NC	Not Calcglated
ND	Not Detected at t. e reportinv liwit (or MDL or EDL if m o+ n)
NEG	Nevatiye / Abnment
POS	Ponitiye / Prenent
PQL	Practical Qgantitation Liwit
PRES	Prenwgptiye
QC	Qgalits Control
RER	Relatiye Error Ratio (Radioc. ewintrs)
RL	Reportinv Liwit or Reggented Liwit (Radioc. ewintrs)
RPD	Relatiye Percent Difference, a weangre of t. e relatiye difference bet+ een t+ o pointm
hEF	hoxicits Eggiyalent Factor (Dioxin)
hEQ	hoxicits Eggiyalent Qgotient (Dioxin)
hNhC	hoo Ngwerogmho Cognt

# Case Narrative

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

Job ID: 570-67857-1

## Job ID: 570-67857-1

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-67857-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/20/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5° C.

#### 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

2 10 e 2 ntai or li d  
, tot de j @ : / SSoi E obCx D2 P0M4AA760A0

Job ID: 570-67957-4

## Client Sample ID: S-2.5-K6

## Lab Sample ID: 570-67857-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	4) 00		4) 0	. mfgm	500	3	KN ☼ T-s S	☼ ben FKx
☼ T nHDCH 1Whi ml	M400		4)	. mfgm	)	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHE oet u GWhi ml	Mj 0		4)	. mfgm	)	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-5-K6

## Lab Sample ID: 570-67857-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	560		4p0	. mfgm	500	3	KN ☼ T-s S	☼ ben FKx
☼ T nHE oet u GWhi ml	p) 0		M0	. mfgm	5	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHDCH 1Whi ml - D8	4A000		M00	. mfgm	50	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-7.5-K6

## Lab Sample ID: 570-67857-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	Mj 0		) 0	. mfgm	400	3	KN ☼ T-s S	☼ ben FKx
☼ T nHDCH 1Whi ml	4400		5f7	. mfgm	4	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHE oet u GWhi ml	A7		5f7	. mfgm	4	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-10-K6

## Lab Sample ID: 570-67857-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	4) 0		4A	. mfgm	50	3	KN ☼ T-s S	☼ ben FKx
☼ T nHDCH 1Whi ml	M0		6fA	. mfgm	4	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHE oet u GWhi ml	MM		6fA	. mfgm	4	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-12.5-K6

## Lab Sample ID: 570-67857-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet u GWhi ml	6f)		6f0	. mfgm	4	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-2.5-K8

## Lab Sample ID: 570-67857-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	Af5		0f) 4	. mfgm	4	3	KN ☼ T-s S	☼ ben FKx
☼ T nHDCH 1Whi ml	) 900		) 9	. mfgm	5	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHE oet u GWhi ml	5M0		) 9	. mfgm	5	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR

## Client Sample ID: S-5-K8

## Lab Sample ID: 570-67857-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHbCl Q A-24M	Mj 00		460	. mfgm	500	3	KN ☼ T-s S	☼ ben FKx
☼ T nHDCH 1Whi ml	4p000		4A0	. mfgm	) 0	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR
☼ T nHE oet u GWhi ml	) M00		4A0	. mfgm	) 0	3	KN ☼ T-DS	j Cdn s l 1 21 ni CR

☼ hGDI d deCi j Q . nty aol Hi oeCdCal tnaCdhI . Cdn1d HbtI HOHf

/ CtoLCH2n1HdCi dl 882



# Detection Summary

2 10 e 2 ntai or li d  
 , tot de j @ : / SSoi E obCx D2 P0M#AA760A0

Job ID: 570-67957-4

## Client Sample ID: S-7.5-K8

## Lab Sample ID: 570-67857-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	MA00		) 70	. nfgm	500	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml - D8	5p000		) M0	. nfgm	) 0	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml - D8	A500		) M0	. nfgm	) 0	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-10-K8

## Lab Sample ID: 570-67857-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	4500		4A0	. nfgm	500	3	KN ☼ T-s S	☼ben FKx
☼ T nHE oet u QWhi ml	) 70		6f5	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHDCH 1Whi ml - D8	Ap00		MM	. nfgm	5	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-12.5-K8

## Lab Sample ID: 570-67857-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	40		4f9	. nfgm	4	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml	AA		) 6	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	) A0		) 6	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-5-L9

## Lab Sample ID: 570-67857-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	6f7		0f) M	. nfgm	4	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml	M70		5f)	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	) 90		5f)	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-10-L9

## Lab Sample ID: 570-67857-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	4A00		79	. nfgm	) 50	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml	M40		6fM	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml	M)		6fM	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-12.5-L9

## Lab Sample ID: 570-67857-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHE oet u QWhi ml	MM		) p	. nfgm	4	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

## Client Sample ID: S-2.5-M8

## Lab Sample ID: 570-67857-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	MA00		) p0	. nfgm	4000	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml - D8	) 7000		450	. nfgm	) 0	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR
☼ T nHE oet u QWhi ml - D8	4M00		450	. nfgm	) 0	3	KN ☼ T-DS	j Qdn s l 1 21 ni CR

☼hGDI d deCi j Q . nty aol Hi oeCd dCal tnaQdhl . Qn1d HbtI HOHf

/ QtoLCH2n1HdCi dl 882

# Detection Summary

2 10 e 2 ntai or li d  
, tot dēf @ : / SSoi E obGx D2 P0M#AA760A0

Job ID: 570-67957-4

## Client Sample ID: S-5-M8

## Lab Sample ID: 570-67857-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	4) 00		A9	. mfgm	) 50	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml	) 50		5f6	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR
☼ T nHE oet u GWhi ml	4A		5f6	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR

## Client Sample ID: S-7.5-M8

## Lab Sample ID: 570-67857-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	Ap0		4p0	. mfgm	) 50	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml	4M00		4M	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR
☼ T nHE oet u GWhi ml	MA0		4M	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR

## Client Sample ID: S-10-M8

## Lab Sample ID: 570-67857-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	7A0		A7	. mfgm	) 50	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml	400		5f6	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR
☼ T nHE oet u GWhi ml	44		5f6	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR

## Client Sample ID: S-12.5-M8

## Lab Sample ID: 570-67857-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	6f0		) f)	. mfgm	4	3	KN ☼ T-s S	☼ben FKx
☼ T nHE oet u GWhi ml	M7		M4	. mfgm	4	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR

## Client Sample ID: S-2-L9

## Lab Sample ID: 570-67857-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
☼ T nHs nHb 10I Q A-24M	p6		59	. mfgm	) 50	3	KN ☼ T-s S	☼ben FKx
☼ T nHDCH 1Whi ml	) 000		55	. mfgm	40	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR
☼ T nHE oet u GWhi ml	) 400		55	. mfgm	40	3	KN ☼ T-DS	j Qdn s l 1 2 1 ni CR

# Client Sample Results

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

Job ID: 570-67857-1

Client Sample ID: S-2.5-N6

Lab Sample ID: 570-67157-3

Date Collected: 01/18/2023 07:00

Matrix: Solid

Date Received: 01/20/2023 07:00

MetTod: PH GW-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
GW as ( asoline ACv-C3W)	3200		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)	868		50 - 850	01/26/28 8634	07/08/28 8025	500

MetTod: PH GW-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
GW as Diesel Ran9e	V800		12	mg/Kg	☆	08/25/21 18:24	09/01/21 22:37	2
GW as Motor Kil Ran9e	V20		12	mg/Kg	☆	08/25/21 18:24	09/01/21 22:37	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	56		50 - 850	01/25/28 8134	07/08/28 2236	2

Client Sample ID: S-5-N6

Lab Sample ID: 570-67157-2

Date Collected: 01/18/2023 07:00

Matrix: Solid

Date Received: 01/20/2023 07:00

MetTod: PH GW-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
GW as ( asoline ACv-C3W)	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)	808		50 - 850	01/26/28 8634	07/08/28 8535	500

MetTod: PH GW-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
GW as Motor Kil Ran9e	/ 20		38	mg/Kg	☆	08/25/21 18:24	09/01/21 22:59	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	827		50 - 850	01/25/28 8134	07/08/28 2237	5

MetTod: PH GW-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup - DL

Fnalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
GW as Diesel Ran9e	3v000		380	mg/Kg	☆	08/25/21 18:24	09/02/21 16:47	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	56		50 - 850	01/25/28 8134	07/02/28 8034	50

Client Sample ID: S-7.5-N6

Lab Sample ID: 570-67157-V

Date Collected: 01/18/2023 07:50

Matrix: Solid

Date Received: 01/20/2023 07:00

MetTod: PH GW-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
GW as ( asoline ACv-C3W)	V20		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)	8: O	S8+	50 - 850	01/26/28 8634	07/08/28 8531	800

MetTod: PH GW-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
GW as Diesel Ran9e	3300		5.7	mg/Kg	☆	08/25/21 18:24	09/01/21 23:21	1
GW as Motor Kil Ran9e	v7		5.7	mg/Kg	☆	08/25/21 18:24	09/01/21 23:21	1

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67857-1

**Client Sample ID: S-7.5-N6**

**Date Collected: 01/18/2023 01:50**

**Date Received: 01/20/2023 01:00**

**Lab Sample ID: 570-67157-V**

**Matrix: Solid**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t a t o s n e (Surr)	881		50 - 850	01/25/28 8134	07/08/28 2638	8

**Client Sample ID: S-30-N6**

**Date Collected: 01/18/2023 01:55**

**Date Received: 01/20/2023 01:00**

**Lab Sample ID: 570-67157-v**

**Matrix: Solid**

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy								
Fnalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	320		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)	85	S8+	50 - 850			01/26/28 8634	07/08/28 8530	50

**MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup**

Finalztes	Result	Qualifier	RL	fnit	D	Prepared	Finalzed	Dil Uac
GW as Diesel Ran9e	W		6.4	mg/Kg	☆	08/25/21 18:24	09/01/21 23:42	1
GW as Motor Kil Ran9e	W		6.4	mg/Kg	☆	08/25/21 18:24	09/01/21 23:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t a t o s n e (Surr)	888		50 - 850			01/25/28 8134	07/08/28 2632	8

**Client Sample ID: S-32.5-N6**

**Date Collected: 01/18/2023 30:00**

**Date Received: 01/20/2023 01:00**

**Lab Sample ID: 570-67157-5**

**Matrix: Solid**

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy								
Fnlalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
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)	18		50 - 850			01/26/28 8634	07/08/28 0732	8

**MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup**

Fnalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
TPH as Diesel Range	ND		6.0	mg/Kg	⚡	08/25/21 18:24	09/02/21 00:04	1
Gw as Motor Kil Ran9e	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
n-c t a t o s n e (Surr)	880		50 - 850			01/25/28 8134	07/02/28 0034	8

**Client Sample ID: S-2.5-N1**

**Date Collected: 01/18/2023 30:05**

**Date Received: 01/20/2023 01:00**

**Lab Sample ID: 570-67157-6**

**Matrix: Solid**

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy								
Fnalzte	Result	g ualiQer	RL	f nit	D	wrepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	v.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)	824		50 - 850			01/26/28 8634	07/08/28 8830	8

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-N1

Lab Sample ID: 570-67157-6

Date Collected: 0181823 30:05

Matrix: Solid

Date Received: 0182023 0/ :V0

MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as Diesel Ran9e	2100		28	mg/Kg	☆	08/25/21 18:24	09/02/21 00:26	5
Gw as Motor Kil Ran9e	5V0		28	mg/Kg	☆	08/25/21 18:24	09/02/21 00:26	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	867		50 - 850			01/25/28 8134	07/02/28 0030	5

Client Sample ID: S-5-N1

Lab Sample ID: 570-67157-7

Date Collected: 0181823 30:30

Matrix: Solid

Date Received: 0182023 0/ :V0

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	V200		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)	07		50 - 850			01/26/28 8634	07/08/28 2834	500

MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as Diesel Ran9e	3/ 000		140	mg/Kg	☆	08/25/21 18:24	09/02/21 19:34	20
Gw as Motor Kil Ran9e	2V00		140	mg/Kg	☆	08/25/21 18:24	09/02/21 19:34	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	826		50 - 850			01/25/28 8134	07/02/28 8734	20

Client Sample ID: S-7.5-N1

Lab Sample ID: 570-67157-1

Date Collected: 0181823 30:35

Matrix: Solid

Date Received: 0182023 0/ :V0

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	V00		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)	862		50 - 850			01/26/28 8634	07/08/28 2034	500

MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup - DL

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as Diesel Ran9e	5/ 000		230	mg/Kg	☆	08/25/21 18:24	09/02/21 17:45	20
Gw as Motor Kil Ran9e	v500		230	mg/Kg	☆	08/25/21 18:24	09/02/21 17:45	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	858	S8+	50 - 850			01/25/28 8134	07/02/28 8: 35	20

Client Sample ID: S-30-N1

Lab Sample ID: 570-67157-/

Date Collected: 0181823 32:00

Matrix: Solid

Date Received: 0182023 0/ :V0

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	3500		140	mg/Kg	☆	08/23/21 13:47	09/01/21 20:23	500

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67857-1

Client Sample ID: S-30-N1

Date Collected: 0181823 32:00

Date Received: 0182023 0/ :V0

Lab Sample ID: 570-67157-/

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	04		50 - 850			01/26/28 8634	07/08/28 2036	500
MetTod: PH Gw-Dx - PortT) est - Semi-volatile petroleum products A Cy- Silica ( el Cleanup								
Finalte	Result	Qualifier	RL	Unit	D	Prepared	Finalzed	Dil Uac
Gw as Motor Kil Ran9e	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-c t æt o9sne (Surr)	824		50 - 850			01/25/28 8134	07/02/28 0832	8
MetTod: PH Gw-Dx - PortT) est - Semi-volatile petroleum products A Cy- Silica ( el Cleanup - DL								
Finalte	Result	Qualifier	RL	Unit	D	Prepared	Finalzed	Dil Uac
Gw as Diesel Ran9e	v/ 00		33	mg/Kg	☆	08/25/21 18:24	09/02/21 18:07	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	842		50 - 850			01/25/28 8134	07/02/28 8130	5

Client Sample ID: S-32.5-N1

Date Collected: 0181823 30:25

Date Received: 0182023 0/ :V0

Lab Sample ID: 570-67157-30

Matrix: Solid

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy								
Fnalzte	Result	g ualiOer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	30		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)	808		50 - 850			01/26/28 8634	07/08/28 0730	8
MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup								
Fnalzte	Result	g ualiOer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as Diesel Ran9e	vv		26	mg/Kg	☼	08/25/21 18:24	09/02/21 01:54	1
Gw as Motor Kil Ran9e	2v0		26	mg/Kg	☼	08/25/21 18:24	09/02/21 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	888		50 - 850			01/25/28 8134	07/02/28 0834	8

Client Sample ID: S-5-L/

Date Collected: 0181823 30:v0

Date Received: 0182023 0/ :V0

Lab Sample ID: 570-67157-33

Matrix: Solid

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy								
Fnalzte	Result	g ualiOer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	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)	210	S8+	50 - 850			01/26/28 8634	07/08/28 8835	8
MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup								
Fnalzte	Result	g ualiOer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as Diesel Ran9e	VV0		5.2	mg/Kg	☼	08/25/21 18:24	09/02/21 03:00	1
Gw as Motor Kil Ran9e	210		5.2	mg/Kg	☼	08/25/21 18:24	09/02/21 03:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	828		50 - 850			01/25/28 8134	07/02/28 0630	8

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# Client Sample Results

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

Job ID: 570-67857-1

Client Sample ID: S-30-L/

Lab Sample ID: 570-67157-32

Date Collected: 0181823 30:v5

Matrix: Solid

Date Received: 0182023 0/ :V0

## MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	3v00		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)	: 8		50 - 850	01/26/28 8634	07/08/28 2230	250

## MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as Diesel Ran9e	V80		6.3	mg/Kg	☆	08/25/21 18:24	09/02/21 03:21	1
Gw as Motor Kil Ran9e	V2		6.3	mg/Kg	☆	08/25/21 18:24	09/02/21 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	807		50 - 850	01/25/28 8134	07/02/28 0638	8

Client Sample ID: S-32.5-L/

Lab Sample ID: 570-67157-3V

Date Collected: 0181823 30:50

Matrix: Solid

Date Received: 0182023 0/ :V0

## MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
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)	01		50 - 850	01/26/28 8634	07/08/28 8037	8

## MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
TPH as Diesel Range	ND		29	mg/Kg	☆	08/25/21 18:24	09/02/21 03:44	1
Gw as Motor Kil Ran9e	VW		29	mg/Kg	☆	08/25/21 18:24	09/02/21 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	801		50 - 850	01/25/28 8134	07/02/28 0634	8

Client Sample ID: S-2.5-M1

Lab Sample ID: 570-67157-3v

Date Collected: 0181823 30:55

Matrix: Solid

Date Received: 0182023 0/ :V0

## MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	W00		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)	867		50 - 850	01/26/28 8634	07/08/28 2634	8000

## MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup - DL

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as Diesel Ran9e	27000		150	mg/Kg	☆	08/25/21 18:24	09/02/21 19:13	20
Gw as Motor Kil Ran9e	3V00		150	mg/Kg	☆	08/25/21 18:24	09/02/21 19:13	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	881		50 - 850	01/25/28 8134	07/02/28 8736	20

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67857-1

Client Sample ID: S-5-M1

Lab Sample ID: 570-67157-35

Date Collected: 0181823 33:00

Matrix: Solid

Date Received: 0182023 0/ :V0

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	3200		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)	800		50 - 850	01/26/28 8634	07/08/28 2036	250

MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as Diesel Ran9e	250		5.6	mg/Kg	☆	08/25/21 18:24	09/02/21 04:28	1
Gw as Motor Kil Ran9e	3v		5.6	mg/Kg	☆	08/25/21 18:24	09/02/21 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	800		50 - 850	01/25/28 8134	07/02/28 0431	8

Client Sample ID: S-7.5-M1

Lab Sample ID: 570-67157-36

Date Collected: 0181823 33:05

Matrix: Solid

Date Received: 0182023 0/ :V0

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	v/ 0		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)	10		50 - 850	01/26/28 8634	07/08/28 2830	250

MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as Diesel Ran9e	3V00		13	mg/Kg	☆	08/25/21 18:24	09/02/21 04:49	1
Gw as Motor Kil Ran9e	V0		13	mg/Kg	☆	08/25/21 18:24	09/02/21 04:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	882		50 - 850	01/25/28 8134	07/02/28 0437	8

Client Sample ID: S-30-M1

Lab Sample ID: 570-67157-37

Date Collected: 0181823 33:30

Matrix: Solid

Date Received: 0182023 0/ :V0

MetTod: PH Gw-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as ( asoline ACv-C3W)	7v0		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)	15		50 - 850	01/26/28 8634	07/08/28 2837	250

MetTod: PH Gw-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
Gw as Diesel Ran9e	300		5.6	mg/Kg	☆	08/25/21 18:24	09/02/21 05:12	1
Gw as Motor Kil Ran9e	33		5.6	mg/Kg	☆	08/25/21 18:24	09/02/21 05:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	804		50 - 850	01/25/28 8134	07/02/28 0532	8

Eurofins Calscience LLC

# Client Sample Results

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

Job ID: 570-67857-1

Client Sample ID: S-32.5-M1

Lab Sample ID: 570-67157-31

Date Collected: 0181823 33:35

Matrix: Solid

Date Received: 0182023 0/ :V0

## MetTod: PH QW-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
QW as ( asoline ACv-C3Wj	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)	808		50 - 850	01/26/28 8634	07/08/28 8031	8

## MetTod: PH QW-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
TPH as Diesel Range	ND		31	mg/Kg	☆	08/25/21 18:24	09/02/21 05:34	1
QW as Motor Kil Ran9e	W		31	mg/Kg	☆	08/25/21 18:24	09/02/21 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	888		50 - 850	01/25/28 8134	07/02/28 0534	8

Client Sample ID: S-2-L/

Lab Sample ID: 570-67157-3/

Date Collected: 0181823 30:V5

Matrix: Solid

Date Received: 0182023 0/ :V0

## MetTod: PH QW-( x - PortT) est - 4olatile wetroleum wroducts A Cy

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
QW as ( asoline ACv-C3Wj	/ 6		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)	: 5		50 - 850	01/26/28 8634	07/08/28 2236	250

## MetTod: PH QW-Dx - PortT) est - Semi-4olatile wetroleum wroducts A Cy- Silica ( el Cleanup

Fnalzte	Result	g ualiQer	RL	f nit	D	wprepared	F nalzQed	Dil Uac
QW as Diesel Ran9e	2000		55	mg/Kg	☆	08/25/21 18:24	09/03/21 12:47	10
QW as Motor Kil Ran9e	2300		55	mg/Kg	☆	08/25/21 18:24	09/03/21 12:47	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-c t æt o9sne (Surr)	880		50 - 850	01/25/28 8134	07/06/28 8234	80

# Surrogate Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC / 0438876080

Job ID: 570-67157-3

## 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)
570-67157-3	S-2.5-N6	343
570-67157-2	S-5-N6	303
570-67157-4	S-7.5-N6	376 S39
570-67157-8	S-30-N6	357 S39
570-67157-5	S-32.5-N6	13
570-67157-6	S-2.5-N1	328
570-67157-7	S-5-N1	6L
570-67157-1	S-7.5-N1	342
570-67157-L	S-30-N1	68
570-67157-30	S-32.5-N1	303
570-67157-33	S-5-KL	216 S39
570-67157-32	S-30-KL	73
570-67157-34	S-32.5-KL	61
570-67157-38	S-2.5-M1	34L
570-67157-35	S-5-M1	306
570-67157-36	S-7.5-M1	10
570-67157-37	S-30-M1	15
570-67157-31	S-32.5-M1	303
570-67157-3L	S-2-KL	75
KCS 570-37518L/38	Kab Control Sample	306
KCS 570-375L72/4	Kab Control Sample	330
KCS 570-376056/6	Kab Control Sample	17
KCSD 570-37518L/35	Kab Control Sample Dup	301
KCSD 570-375L72/8	Kab Control Sample Dup	324
KCSD 570-376056/7	Kab Control Sample Dup	1L
MB 570-37518L/8	Method Blank	71
MB 570-37518L/5	Method Blank	7L
MB 570-375L72/6	Method Blank	75
MB 570-376056/L	Method Blank	68

### Surrogate Legend

BFB = 8-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)
570-67157-3	S-2.5-N6	54
570-67157-3 MS	S-2.5-N6	33L
570-67157-3 MS	S-2.5-N6	80 S3-
570-67157-3 MSD	S-2.5-N6	323
570-67157-3 MSD	S-2.5-N6	87 S3-
570-67157-2	S-5-N6	32L
570-67157-2 - DK	S-5-N6	54
570-67157-4	S-7.5-N6	331
570-67157-8	S-30-N6	333
570-67157-5	S-32.5-N6	336
570-67157-6	S-2.5-N1	34L

Eurofins Calscience KKC

# Surrogate Summary

Client: Cardno, Inc

Job ID: 570-67157-3

Project/Site: ExxonMobil ADC / 0438876080

**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)
570-67157-7	S-5-N1	324
570-67157-1 - DK	S-7.5-N1	353 S39
570-67157-L	S-30-N1	328
570-67157-L - DK	S-30-N1	382
570-67157-30	S-32.5-N1	333
570-67157-33	S-5-KL	323
570-67157-32	S-30-KL	30L
570-67157-34	S-32.5-KL	301
570-67157-38 - DK	S-2.5-M1	331
570-67157-35	S-5-M1	306
570-67157-36	S-7.5-M1	332
570-67157-37	S-30-M1	308
570-67157-31	S-32.5-M1	333
570-67157-3L	S-2-KL	330
KCS 570-378416/2-A	Kab Control Sample	336
KCS 570-378416/6-A	Kab Control Sample	336
KCSD 570-378416/4-A	Kab Control Sample Dup	330
KCSD 570-378416/7-A	Kab Control Sample Dup	332
MB 570-378416/3-A	Method Blank	330

### Surrogate Legend

+ OCST = n-+ ctacosane (Surr)

# QC Sample Results

2 10 e 2 nta i or li d

, tot de p @ : / SSoi E obCx D2 POMAA760A0

Job ID: 570-67957-4

## 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
3, . nmg nm0C1 K2 A-24M0	8 D		0T5	s RNR			09RM4P4 HD:AA	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01				1572/ 7 / : 134	/

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
3, . nmg nm0C1 K2 A-24M0	8 D		5D	s RNR			09RM4P4 H4:4G	HD
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		01 - / 01				1572/ 7 / : 3 6	: 1

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	
3, . nmg nm0C1 K2 A-24M0	H0H	HD45		s RNR		G6	77 - 4H9	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	/ 19		01 - / 01					

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
3, . nmg nm0C1 K2 A-24M0	H04	HDH6		s RNR		G6	77 - 4H9	4	46
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 15		01 - / 01						

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
3, . nmg nm0C1 K2 A-24M0	8 D		5D	s RNR			0G04P4 4H49	HD
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		01 - / 01				1671/ 7 / : 3 5	: 1

/ ( to ) Cm2 n1 dCi dl uu2



# QC Sample Results

2 10i e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Qx D2 P0M#AA760A0

Job ID: 570-67957-4

## 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
3, . nmg nmol 12 A-24M	H7H	HD54		s RNR		G	77 - 4H9
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	// 1		01 - / 01				

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
3, . nmg nmol 12 A-24M			H7H	4TAA		s RNR		GH	77 - 4H9	5	46
Surrogate	%Recovery	LCSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	/ : 2		01 - / 01								

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
3, . nmg nmol 12 A-24M	8D		5D	s RNR			0G04P4 46:0A	H0
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		01 - / 01				167/ 7. / 93/4	: 1

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
3, . nmg nmol 12 A-24M			H7H	HD9G		s RNR		GG	77 - 4H9
Surrogate			LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)			58		01 - / 01				

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
3, . nmg nmol 12 A-24M	H7H	H7M9		s RNR		404	77 - 4H9	H	46
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	56		01 - / 01						

/ ( to ) Cm2 n1ndCi dl uu2

# QC Sample Results

2 Di e 2 nta i or li d  
, tot d d p @ : / SSoi E ob Gx D2 POM#AA760A0

Job ID: 570-67957-4

## 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 Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3, . nmDCnt 1f ni R	8 D		5 D	s RNR		09P5P4 49:HA	0G04P4 4G00	4
3, . nmE oet L Gf ni R	8 D		5 D	s RNR		09P5P4 49:HA	0G04P4 4G00	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 1		01 - / 01			157 07 / / 53 4	167 / 7 / / 63 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	Limits	%Rec.
3, . nmDCnt 1k2 40-2 H9	A00	AAMD		s RNR		444	76 - 4H6	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	// 9		01 - / 01					

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	Limits	%Rec.
3, . nmE oet L Gk2 47-2 AA	A00	AAAT6		s RNR		444	74 - 4MG	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	// 9		01 - / 01					

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	Limits	%Rec.	RPD	Limit
3, . nmDCnt 1k2 40-2 H9	A00	A55TG		s RNR		44A	76 - 4H6		M	H0
Surrogate	%Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)	// 1		01 - / 01							

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	Limits	%Rec.	RPD	Limit
3, . nmE oet L Gk2 47-2 AA	A00	AAAT6		s RNR		440	74 - 4MG		4	H0
Surrogate	%Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)	// :		01 - / 01							

/ ( to ) Cm2 n1 dCi dl uu2

# QC Sample Results

2101 e 2 nta i or li d  
, tot de p @ : / SSoi E ob Cx D2 POM#AA760A0

Job ID: 570-67957-4

## 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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
3, . nmDCnt 1K2 40-2 H9	M00		A7G	G0A4	/ A	s RNR	o	4H5	M - 475		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
n-Octacosane (Surr)	// 6		01 - / 01								

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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
3, . nmE oet L QK2 47-2 AA	4600		A6G	H46M	/	s RNR	o	44A	74 - 47A		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
n-Octacosane (Surr)	41	S/-	01 - / 01								

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.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
3, . nmDCnt 1K2 40-2 H9	M00		A69	G76M	/ A	s RNR	o	4A0G	M - 475	9	H0
Surrogate	MSD	MSD									
n-Octacosane (Surr)	%Recovery	Qualifier	Limits								
	/ : /		01 - / 01								

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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3, . nmE oet L QK2 47-2 AA	4600		A6G	H44H	/	s RNR	o	40M	74 - 47A	H	H0
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
n-Octacosane (Surr)	48	S/-	01 - / 01								

/ ( to ) Cm2 n1 mCi dl uu2

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC / 0432276020

Job ID: 570-67157-3

## GC VOA

### Prep Batch: 1730Lb

Lab Sample ID	Client Sample ID	Prep type	d atri4	d etho5	Prep Batch
570-67157-3	S-15-T6	9otal/L A	Solid	5045	
570-67157-.	S-5-T6	9otal/L A	Solid	5045	
570-67157-4	S-715-T6	9otal/L A	Solid	5045	
570-67157-2	S-30-T6	9otal/L A	Solid	5045	
570-67157-7	S-5-T1	9otal/L A	Solid	5045	
570-67157-1	S-715-T1	9otal/L A	Solid	5045	
570-67157-K	S-30-T1	9otal/L A	Solid	5045	
570-67157-3.	S-30-8K	9otal/L A	Solid	5045	
570-67157-32	S-15-M1	9otal/L A	Solid	5045	
570-67157-35	S-5-M1	9otal/L A	Solid	5045	
570-67157-36	S-715-M1	9otal/L A	Solid	5045	
570-67157-37	S-30-M1	9otal/L A	Solid	5045	
570-67157-3K	S-15-8K	9otal/L A	Solid	5045	

### Prep Batch: 173082

Lab Sample ID	Client Sample ID	Prep type	d atri4	d etho5	Prep Batch
570-67157-5	S-3-15-T6	9otal/L A	Solid	5045	
570-67157-6	S-15-T1	9otal/L A	Solid	5045	
570-67157-30	S-3-15-T1	9otal/L A	Solid	5045	
570-67157-33	S-5-8K	9otal/L A	Solid	5045	
570-67157-34	S-3-15-8K	9otal/L A	Solid	5045	
570-67157-31	S-3-15-M1	9otal/L A	Solid	5045	

### Analysis Batch: 178bL9

Lab Sample ID	Client Sample ID	Prep type	d atri4	d etho5	Prep Batch
570-67157-3	S-15-T6	9otal/L A	Solid	L W9PH-Gx	374621
570-67157-.	S-5-T6	9otal/L A	Solid	L W9PH-Gx	374621
570-67157-4	S-715-T6	9otal/L A	Solid	L W9PH-Gx	374621
570-67157-2	S-30-T6	9otal/L A	Solid	L W9PH-Gx	374621
570-67157-5	S-3-15-T6	9otal/L A	Solid	L W9PH-Gx	374650
570-67157-6	S-15-T1	9otal/L A	Solid	L W9PH-Gx	374650
570-67157-30	S-3-15-T1	9otal/L A	Solid	L W9PH-Gx	374650
570-67157-33	S-5-8K	9otal/L A	Solid	L W9PH-Gx	374650
570-67157-34	S-3-15-8K	9otal/L A	Solid	L W9PH-Gx	374650
570-67157-31	S-3-15-M1	9otal/L A	Solid	L W9PH-Gx	374650
MB 570-37512K/2	Method Blank	9otal/L A	Solid	L W9PH-Gx	
MB 570-37512K/5	Method Blank	9otal/L A	Solid	L W9PH-Gx	
8CS 570-37512K/32	8ab Control Sau f le	9otal/L A	Solid	L W9PH-Gx	
8CSD 570-37512K/35	8ab Control Sau f le Dsf	9otal/L A	Solid	L W9PH-Gx	

### Analysis Batch: 178976

Lab Sample ID	Client Sample ID	Prep type	d atri4	d etho5	Prep Batch
570-67157-35	S-5-M1	9otal/L A	Solid	L W9PH-Gx	374621
570-67157-36	S-715-M1	9otal/L A	Solid	L W9PH-Gx	374621
570-67157-37	S-30-M1	9otal/L A	Solid	L W9PH-Gx	374621
570-67157-3K	S-15-8K	9otal/L A	Solid	L W9PH-Gx	374621
MB 570-375K7. /6	Method Blank	9otal/L A	Solid	L W9PH-Gx	
8CS 570-375K7. /4	8ab Control Sau f le	9otal/L A	Solid	L W9PH-Gx	
8CSD 570-375K7. /2	8ab Control Sau f le Dsf	9otal/L A	Solid	L W9PH-Gx	

Esromp Calpcience 88C

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC / 0432276020

Job ID: 570-67157-3

## GC VOA

### Analysis Batch: 170280

Label Sample ID	Client Sample ID	Prep type	Matrix	Method	Prep Batch
570-67157-7	S-5-T1	90tal/L A	Solid	L W9PH-Gx	374621
570-67157-1	S-7MS-T1	90tal/L A	Solid	L W9PH-Gx	374621
570-67157-K	S-30-T1	90tal/L A	Solid	L W9PH-Gx	374621
570-67157-3.	S-30-8K	90tal/L A	Solid	L W9PH-Gx	374621
570-67157-32	S-. MS-M1	90tal/L A	Solid	L W9PH-Gx	374621
MB 570-376056/K	Method Blank	90tal/L A	Solid	L W9PH-Gx	
8CS 570-376056/6	8ab Control Sau f le	90tal/L A	Solid	L W9PH-Gx	
8CSD 570-376056/7	8ab Control Sau f le Dsf	90tal/L A	Solid	L W9PH-Gx	

## GC Semi VOA

### Prep Batch: 17L3b0

Label Sample ID	Client Sample ID	Prep type	Matrix	Method	Prep Batch
570-67157-3	S-. MS-T6	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-.	S-5-T6	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-. - D8	S-5-T6	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-4	S-7MS-T6	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-2	S-30-T6	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-5	S-3. MS-T6	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-6	S-. MS-T1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-7	S-5-T1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-1 - D8	S-7MS-T1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-K	S-30-T1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-K - D8	S-30-T1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-30	S-3. MS-T1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-33	S-5-8K	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-3.	S-30-8K	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-34	S-3. MS-8K	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-32 - D8	S-. MS-M1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-35	S-5-M1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-36	S-7MS-M1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-37	S-30-M1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-31	S-3. MS-M1	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-3K	S-. -8K	Silica Gel Cleansf	Solid	4550C SGC	
MB 570-372416/3-A	Method Blank	Silica Gel Cleansf	Solid	4550C SGC	
8CS 570-372416/. -A	8ab Control Sau f le	Silica Gel Cleansf	Solid	4550C SGC	
8CS 570-372416/6-A	8ab Control Sau f le	Silica Gel Cleansf	Solid	4550C SGC	
8CSD 570-372416/4-A	8ab Control Sau f le Dsf	Silica Gel Cleansf	Solid	4550C SGC	
8CSD 570-372416/7-A	8ab Control Sau f le Dsf	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-3 MS	S-. MS-T6	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-3 MS	S-. MS-T6	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-3 MSD	S-. MS-T6	Silica Gel Cleansf	Solid	4550C SGC	
570-67157-3 MSD	S-. MS-T6	Silica Gel Cleansf	Solid	4550C SGC	

### Analysis Batch: 1701LL

Label Sample ID	Client Sample ID	Prep type	Matrix	Method	Prep Batch
570-67157-3	S-. MS-T6	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-.	S-5-T6	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-. - D8	S-5-T6	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-4	S-7MS-T6	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-2	S-30-T6	Silica Gel Cleansf	Solid	L W9PH-Dx	372416

Esromp Calpcience 88C

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC / 0432276020

Job ID: 570-67157-3

## GC Semi VOA (Continue5)

### Analysis Batch: 1701LL (Continue5)

Label Sample ID	Client Sample ID	Prep type	date	date	Prep Batch
570-67157-5	S-3. N-T6	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-6	S-. N-T1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-7	S-5-T1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-1 - D8	S-7N-T1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-K	S-30-T1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-K - D8	S-30-T1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-30	S-3. N-T1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-33	S-5-8K	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-3.	S-30-8K	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-34	S-3. N-8K	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-32 - D8	S-. N-M1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-35	S-5-M1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-36	S-7N-M1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-37	S-30-M1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-31	S-3. N-M1	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
MB 570-372416/3-A	Method Blank	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
8CS 570-372416/. -A	8ab Control Sau f le	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
8CS 570-372416/6-A	8ab Control Sau f le	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
8CSD 570-372416/4-A	8ab Control Sau f le Dsf	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
8CSD 570-372416/7-A	8ab Control Sau f le Dsf	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-3 MS	S-. N-T6	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-3 MS	S-. N-T6	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-3 MSD	S-. N-T6	Silica Gel Cleansf	Solid	L W9PH-Dx	372416
570-67157-3 MSD	S-. N-T6	Silica Gel Cleansf	Solid	L W9PH-Dx	372416

### Analysis Batch: 170882

Label Sample ID	Client Sample ID	Prep type	date	date	Prep Batch
570-67157-3K	S-. -8K	Silica Gel Cleansf	Solid	L W9PH-Dx	372416



# Lab Chronicle

Client: Cardno, Inc  
1 roectj/ ite: SEEonx obil MDC j 0A43376030

Job ID: 570-67857-4

**Client Sample ID: S-2.5-N1**

**Lab Sample ID: 570-17657-3**

**Date Collected: 0686823 0/ :R0**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			612A7 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	47583V	0Vj04j24 46:25	14m	SCL 2
Instrug ent ID: GC25										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M4 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		2			476433	0Vj04j24 22:A7	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-5-N1**

**Lab Sample ID: 570-17657-2**

**Date Collected: 0686823 0/ :R5**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			5MA3 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	47583V	0Vj04j24 45:57	14m	SCL 2
Instrug ent ID: GC25										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M3 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		5			476433	0Vj04j24 22:5V	T4M	SCL 4
Instrug ent ID: GC38										
/ ilica Gel Cleanup	1 rep	A550C / GC	DL		40M3 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	DL	50			476433	0Vj02j24 46:37	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-7.5-N1**

**Lab Sample ID: 570-17657-y**

**Date Collected: 0686823 0/ :50**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			7MA27 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		400	5 g L	5 g L	47583V	0Vj04j24 45:28	14m	SCL 2
Instrug ent ID: GC25										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M2 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj04j24 2A:24	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-30-N1**

**Lab Sample ID: 570-17657-R**

**Date Collected: 0686823 0/ :55**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			5M55 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		50	5 g L	5 g L	47583V	0Vj04j24 45:00	14m	SCL 2
Instrug ent ID: GC25										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M8 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj04j24 2A:32	T4M	SCL 4
Instrug ent ID: GC38										

SuroRhs Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
1 roPctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67857-4

**Client Sample ID: S-32.5-N1**

**Lab Sample ID: 570-17657-5**

**Date Collected: 0686823 30:00**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repared or u nalP4ed	u nalPzt	Lab
9otaljTM	1 rep	50A5			6M86 .	5 .	47A650	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47583V	0Vj04j24 0V:42	14m	SCL 2
Instrug ent ID: GC25										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M20 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 00:03	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-2.5-N6**

**Lab Sample ID: 570-17657-1**

**Date Collected: 0686823 30:05**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repared or u nalP4ed	u nalPzt	Lab
9otaljTM	1 rep	50A5			6N23 .	5 .	47A650	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47583V	0Vj04j24 44:06	14m	SCL 2
Instrug ent ID: GC25										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M20 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		5			476433	0Vj02j24 00:26	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-5-N6**

**Lab Sample ID: 570-17657-7**

**Date Collected: 0686823 30:30**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repared or u nalP4ed	u nalPzt	Lab
9otaljTM	1 rep	50A5			5N22 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	476056	0Vj04j24 24:43	MMf S	SCL 2
Instrug ent ID: GC22										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M20 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		20			476433	0Vj02j24 4V:A3	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-7.5-N6**

**Lab Sample ID: 570-17657-6**

**Date Collected: 0686823 30:35**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repared or u nalP4ed	u nalPzt	Lab
9otaljTM	1 rep	50A5			5N2 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	476056	0Vj04j24 20:38	MMf S	SCL 2
Instrug ent ID: GC22										
/ ilica Gel Cleanup	1 rep	A550C / GC	DL		40M20 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	DL	20			476433	0Vj02j24 47:35	T4M	SCL 4
Instrug ent ID: GC38										

# Lab Chronicle

Client: Cardno, Inc  
1 roectj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67857-4

**Client Sample ID: S-30-N6**

**Date Collected: 0686823 32:00**

**Date v eceiTed: 06820823 0/ :y0**

**Lab Sample ID: 570-17657-/**

**Matrix: Solid**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			6M05 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		500	5 g L	5 g L	476056	0Vj04j24 20:2A	MMf S	SCL 2
Instrug ent ID: GC22										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M2V .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 04:A2	T4M	SCL 4
Instrug ent ID: GC38										
/ ilica Gel Cleanup	1 rep	A550C / GC	DL		40M2V .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	DL	5			476433	0Vj02j24 48:07	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-32.5-N6**

**Date Collected: 0686823 30:25**

**Date v eceiTed: 06820823 0/ :y0**

**Lab Sample ID: 570-17657-30**

**Matrix: Solid**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			AM25 .	5 .	47A650	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47583V	0Vj04j24 0V:30	14m	SCL 2
Instrug ent ID: GC25										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M7 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 04:53	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-5-L/**

**Date Collected: 0686823 30:R0**

**Date v eceiTed: 06820823 0/ :y0**

**Lab Sample ID: 570-17657-33**

**Matrix: Solid**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			5NA .	5 .	47A650	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47583V	0Vj04j24 44:A5	14m	SCL 2
Instrug ent ID: GC25										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M5 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 0A:00	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-30-L/**

**Date Collected: 0686823 30:R5**

**Date v eceiTed: 06820823 0/ :y0**

**Lab Sample ID: 570-17657-32**

**Matrix: Solid**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			5M53 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		250	5 g L	5 g L	476056	0Vj04j24 22:07	MMf S	SCL 2
Instrug ent ID: GC22										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M7 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 0A:24	T4M	SCL 4
Instrug ent ID: GC38										

SuroRhs Calscience LLC

# Lab Chronicle

Client: Cardno, Inc  
1 roPctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67857-4

Client Sample ID: S-32.5-L/

Lab Sample ID: 570-17657-3y

Date Collected: 0686823 30:50

Matrix: Solid

Date v eceiTed: 06820823 0/ :y0

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			AN58 .	5 .	47A650	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47583V	0Vj04j24 40:0V	14m	SCL 2
Instrug ent ID: GC25										
/ ilica Gel Cleanup	1 rep	A550C / GC			40N0 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 0A:33	T4M	SCL 4
Instrug ent ID: GC38										

Client Sample ID: S-2.5-M6

Lab Sample ID: 570-17657-3R

Date Collected: 0686823 30:55

Matrix: Solid

Date v eceiTed: 06820823 0/ :y0

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			6N25 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4000	5 g L	5 g L	476056	0Vj04j24 2A:23	Mf S	SCL 2
Instrug ent ID: GC22										
/ ilica Gel Cleanup	1 rep	A550C / GC	DL		40N3 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE	DL	20			476433	0Vj02j24 4V:4A	T4M	SCL 4
Instrug ent ID: GC38										

Client Sample ID: S-5-M6

Lab Sample ID: 570-17657-3S

Date Collected: 0686823 33:00

Matrix: Solid

Date v eceiTed: 06820823 0/ :y0

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			7N66 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		250	5 g L	5 g L	475V72	0Vj04j24 20:5A	14m	SCL 2
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40N7 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 03:28	T4M	SCL 4
Instrug ent ID: GC38										

Client Sample ID: S-7.5-M6

Lab Sample ID: 570-17657-3I

Date Collected: 0686823 33:05

Matrix: Solid

Date v eceiTed: 06820823 0/ :y0

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	s repared or unalP4ed	unalPzt	Lab
9otaljTM	1 rep	50A5			3N68 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		250	5 g L	5 g L	475V72	0Vj04j24 24:46	14m	SCL 2
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40N4 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 03:3V	T4M	SCL 4
Instrug ent ID: GC38										

# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67857-4

**Client Sample ID: S-30-M6**

**Lab Sample ID: 570-17657-37**

**Date Collected: 0686823 33:30**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or u nalP4ed	u nalPzt	Lab
9otaljTM	1 rep	50A5			7N48 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		250	5 g L	5 g L	475V72	0Vj04j24 24:AV	14m	SCL 2
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M3 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 05:42	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-32.5-M6**

**Lab Sample ID: 570-17657-36**

**Date Collected: 0686823 33:35**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or u nalP4ed	u nalPzt	Lab
9otaljTM	1 rep	50A5			ANVA .	5 .	47A650	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		4	5 .	5 g L	47583V	0Vj04j24 40:A8	14m	SCL 2
Instrug ent ID: GC25										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M4 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		4			476433	0Vj02j24 05:A3	T4M	SCL 4
Instrug ent ID: GC38										

**Client Sample ID: S-2-L/**

**Lab Sample ID: 570-17657-3/**

**Date Collected: 0686823 30:y5**

**Matrix: Solid**

**Date v eceiTed: 06820823 0/ :y0**

s rep BPpe	Aatch BPpe	Aatch Method	v Fn	Dil 9actor	Initial umoFnt	9inal umoFnt	Aatch KFmber	srepared or u nalP4ed	u nalPzt	Lab
9otaljTM	1 rep	50A5			5N46 .	5 g L	47A638	08j2Aj24 4A:37	SDZ3	SCL 2
9otaljTM	Mhalysis	TW91H-GE		250	5 g L	5 g L	475V72	0Vj04j24 22:0A	14m	SCL 2
Instrug ent ID: GC57										
/ ilica Gel Cleanup	1 rep	A550C / GC			40M3 .	40 g L	473A86	08j25j24 48:23	U/ UL	SCL 4
/ ilica Gel Cleanup	Mhalysis	TW91H-DE		40			476550	0Vj0Aj24 42:37	T4M	SCL 4
Instrug ent ID: GC38										

## LaboratorP v eferencez:

SCL 4 = SuroRns Calscience LLC Lincoln, 7330 Lincoln Way, Garden Grove, CMV2834, 9SL (743)8V5-53V3

SCL 2 = SuroRns Calscience LLC Lag pson, 7335 Lag pson Mve, Garden Grove, CMV2834, 9SL (743)8V5-53V3

Accreditation/Certification Summary

Client: Cardno, Inc  
1 roPctj/ ite: SEEnx obil MDC j 0A43376030

Job ID: 570-67857-4

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	/ tate	C946-48	40-44-24

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



## Method Summary

2 10 e 2 ntai or li d

Job ID: 570-67957-4

, tot de p @ : / SSoi E obCx D2 P0M4AA760A0

Method	Method Description	Protocol	Laboratory
3 N W T-HS	3 oteChl we- sohe3 , l do1 Vu , toaVdevrh12(	3 N W T	/ 2) L
3 N W T-DS	3 oteChl we- j l u Gsohe3 , l do1 Vu , toaVdevrh12(	3 N W T	/ 2) 4
M502 j H2	8 tinwoi d / Sanderi	j N 9A6	/ 2) 4
50M5	2 bw a j Uu u , Vtyl ni a Wng	j N 9A6	/ 2) L

### Protocol References:

3 N W T p 3 oteChl weVden1, l do1 Vu TLatodntboi

j N 9A6 p =VweEl eGaw" ot / FnVneCy j o1a Nnwe r , GUCh 12 G u Gn1El eGawr WGa / aGoi r 3 oFl u bl t 4v96 xi a lew8 gané w

### Laboratory References:

/ 2) 4 p / VtofCw2n1wdCi dl ))2 )Cdo1 r 7AA0 )Cdo1 N nU r Hntal i HtoFl r 2x vL9A4r W ) n74A(9v5-5AvA

/ 2) L p / VtofCw2n1wdCi dl ))2 )nu gwoi r 7AA5 )nu gwoi xFl r Hntal i HtoFl r 2x vL9A4r W ) n74A(9v5-5AvA

/ VtofCw2n1wdCi dl ))2



# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-67857-4

Login Number: 67587

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Question	Answer	Comment
AadioactiRtv y awn& c' eched or iwk 1 bach=round awmeasured by a wurRev meterg	N1	
. ' e coolersvcuwtodv weal, iTf rewent, iwintactg	. rue	
pamf le cuwtodv wealw, iTf rewent, are intactg	. rue	
. ' e cooler or wamf lewdo not af f ear to ' aRe been comf romiwed or tamf ered y it' g	. rue	
pamf lewy ere receiRed on iceg	. rue	
Cooler . emf erature iwaccef tableg	. rue	
Cooler . emf erature iwrecordedg	. rue	
CSC iw f rewentg	. rue	
CSC iwTiled out in inh and le=ibleg	. rue	
CSC iwTiled out y it' all f ertinent inTormationg	. rue	
Iwt' e Qeld pamf lersvname f rewent on CSCF	. rue	
. ' ere are no diwcref anciewbety een t' e containerwreceiRed and t' e CSCg	. rue	
pamf leware receiRed y it' in ? oldin= . ime He(cludin= tewtwy it' immediate ? . vx	. rue	
pamf le containerw' aRe le=ible labelwg	. rue	
Containerware not brohen or leahin=g	. rue	
pamf le collection date timeware f roRdedg	. rue	
/ f f rof riate wamf le containerware uwedg	. rue	
pamf le bottleware comf letelv Tiledg	. rue	
pamf le ) reverRation PeriTedg	. rue	
. ' ere iw wuTticient RblgTr all reVuewted analvwew, inclganv reVuewted q p 1q p Mw	. rue	
ContainerwreVuirin= Dero ' eadwf ace ' aRe no ' eadwf ace or bubble iw k6mm H4z"xg	. rue	
q ultif ' awic wamf leware not f rewentg	. rue	
pamf lewdo not reVuire wf littin= or comf owitin=g	. rue	
Aewidual C' lorine C' echedg	N1	



## 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**

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[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 VeO i Ac p

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 are only used abbreviations that 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: 570-72680-1

## Job ID: 570-72680-1

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-72680-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/13/2021 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.3° C.

#### 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

1 0 en 1 t a eodle,  
c a P, rj/ lri : SEEex oblQMD1j0A23379030

Job ID: 570-76940-2

## Client Sample ID: S-5-C3

## Lab Sample ID: 570-72680-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soDei (1 3-1 2A)	6.2		0.66	mgjKg	2	✱	NWTcH-GE	Tort QNM
TcH t s Dli si COt egi	6p0		AA	mgjKg	5	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu
TcH t s x orpa8 ICot egi	320		AA	mgjKg	5	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu

## Client Sample ID: S-7.5-C3

## Lab Sample ID: 570-72680-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soDei (1 3-1 2A)	260		75	mgjKg	200	✱	NWTcH-GE	Tort QNM
TcH t s Dli si COt egi	2600		27	mgjKg	2	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu
TcH t s x orpa8 ICot egi	2600		27	mgjKg	2	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu

## Client Sample ID: S-10-C3

## Lab Sample ID: 570-72680-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s x orpa8 ICot egi	9.9		9.0	mgjKg	2	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu

## Client Sample ID: S-12.5-C3

## Lab Sample ID: 570-72680-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soDei (1 3-1 2A)	0.p9		0.67	mgjKg	2	✱	NWTcH-GE	Tort QNM

## Client Sample ID: S-5-D2

## Lab Sample ID: 570-72680-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soDei (1 3-1 2A)	600		62	mgjKg	200	✱	NWTcH-GE	Tort QNM
TcH t s Dli si COt egi	5600		59	mgjKg	20	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu
TcH t s x orpa8 ICot egi	A900		59	mgjKg	20	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu

## Client Sample ID: S-7.5-D2

## Lab Sample ID: 570-72680-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soDei (1 3-1 2A)	530		p3	mgjKg	650	✱	NWTcH-GE	Tort QNM
TcH t s Dli si COt egi	3900		90	mgjKg	20	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu
TcH t s x orpa8 ICot egi	6600		90	mgjKg	20	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu

## Client Sample ID: S-10-D2

## Lab Sample ID: 570-72680-7

No Di ri , lloes.

## Client Sample ID: S-2.5-E3

## Lab Sample ID: 570-72680-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soDei (1 3-1 2A)	0.A7		0.65	mgjKg	2	✱	NWTcH-GE	Tort QNM
TcH t s Dli si COt egi	220		20	mgjKg	6	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu
TcH t s x orpa8 ICot egi	660		20	mgjKg	6	✱	NWTcH-DE	/ IC t Gi C 1 Ct eRu

This Di ri , lloes / Rmmt a y r o i s eonle, C r i a r l o, h i m l, t Q i s n a s R C.

SR a f l e s 1 t G, l i e, i L L 1

# Detection Summary

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex obI0MD1j0A23379030

Job ID: 570-76940-2

## Client Sample ID: S-5-E3

## Lab Sample ID: 570-72680-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soæi (13-12A)	24		22	mgjKg	50	✱	NWTcH-GE	Tort QNM
TcH t s Dli si Oot egi	6p00		260	mgjKg	60	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu
TcH t s x orpa8 IOot egi	6200		260	mgjKg	60	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu

## Client Sample ID: S-7.5-E3

## Lab Sample ID: 570-72680-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s x orpa8 IOot egi	p.0		5.9	mgjKg	2	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu

## Client Sample ID: S-5-E5

## Lab Sample ID: 570-72680-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soæi (13-12A)	950		52	mgjKg	600	✱	NWTcH-GE	Tort QNM
TcH t s Dli si Oot egi	4p000		9A0	mgjKg	200	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu
TcH t s x orpa8 IOot egi	p600		9A0	mgjKg	200	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu

## Client Sample ID: S-7.5-E5

## Lab Sample ID: 570-72680-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soæi (13-12A)	770		260	mgjKg	650	✱	NWTcH-GE	Tort QNM
TcH t s Dli si Oot egi	A9000		630	mgjKg	5	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu
TcH t s x orpa8 IOot egi	A200		630	mgjKg	5	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu

## Client Sample ID: S-10-E5

## Lab Sample ID: 570-72680-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soæi (13-12A)	730		2p0	mgjKg	500	✱	NWTcH-GE	Tort QNM
TcH t s Dli si Oot egi	66000		660	mgjKg	5	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu
TcH t s x orpa8 IOot egi	2700		660	mgjKg	5	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu

## Client Sample ID: S-12.5-E5

## Lab Sample ID: 570-72680-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soæi (13-12A)	230		2p	mgjKg	60	✱	NWTcH-GE	Tort QNM
TcH t s Dli si Oot egi	67000		290	mgjKg	20	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu
TcH t s x orpa8 IOot egi	6500		290	mgjKg	20	✱	NWTcH-DE	/ IÇt Gi C 1 Çt eRu

## Client Sample ID: S-15-E5

## Lab Sample ID: 570-72680-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soæi (13-12A)	0.67		0.66	mgjKg	2	✱	NWTcH-GE	Tort QNM

## Client Sample ID: S-15-E6A

## Lab Sample ID: 570-72680-16

No Di ri , rloes.

This Di ri , rloe / Rmmt a r oi s eonle, Ç i a r lo, hi ml, t Qi snä s RÇ.

SRæfles 1 t Ç, li e, i LL1

# Detection Summary

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex oblQMD1j0A23379030

Job ID: 570-76940-2

**Client Sample ID: S-15-C8A**

**Lab Sample ID: 570-72680-17**

No Di ri , rloes.

**Client Sample ID: S-15-E8A**

**Lab Sample ID: 570-72680-18**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soæi (1 3-1 2A)	2.3		0.66	mgjKg	2	✖	NWTcH-GE	Tort QNM

**Client Sample ID: S-17.5-E8A**

**Lab Sample ID: 570-72680-19**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soæi (1 3-1 2A)	6A		3.p	mgjKg	60	✖	NWTcH-GE	Tort QNM
TcH t s Dli si CQt egi	76		9.0	mgjKg	2	✖	NWTcH-DE	/ IQt Gi C 1 Ct eRu
TcH t s x orpa8 IQt egi	65		9.0	mgjKg	2	✖	NWTcH-DE	/ IQt Gi C 1 Ct eRu

**Client Sample ID: S-20-E8A**

**Lab Sample ID: 570-72680-20**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s x orpa8 IQt egi	4A		59	mgjKg	2	✖	NWTcH-DE	/ IQt Gi C 1 Ct eRu

**Client Sample ID: Trip Blank**

**Lab Sample ID: 570-72680-21**

No Di ri , rloes.

**Client Sample ID: S-20-E8A DUP**

**Lab Sample ID: 570-72680-22**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s x orpa8 IQt egi	570		5A0	mgjKg	20	✖	NWTcH-DE	/ IQt Gi C 1 Ct eRu

**Client Sample ID: S-15-G8A**

**Lab Sample ID: 570-72680-23**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soæi (1 3-1 2A)	6600		A70	mgjKg	2000	✖	NWTcH-GE	Tort QNM
TcH t s Dli si CQt egi	26000		2A0	mgjKg	5	✖	NWTcH-DE	/ IQt Gi C 1 Ct eRu
TcH t s x orpa8 IQt egi	A000		2A0	mgjKg	5	✖	NWTcH-DE	/ IQt Gi C 1 Ct eRu

**Client Sample ID: S-17.5-G8A**

**Lab Sample ID: 570-72680-24**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s Gt soæi (1 3-1 2A)	6p00		2200	mgjKg	2000	✖	NWTcH-GE	Tort QNM
TcH t s Dli si CQt egi	6p000		700	mgjKg	60	✖	NWTcH-DE	/ IQt Gi C 1 Ct eRu
TcH t s x orpa8 IQt egi	7200		700	mgjKg	60	✖	NWTcH-DE	/ IQt Gi C 1 Ct eRu

**Client Sample ID: S-20-G8A**

**Lab Sample ID: 570-72680-25**

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
TcH t s x orpa8 IQt egi - DL	7A0		220	mgjKg	6	✖	NWTcH-DE	/ IQt Gi C 1 Ct eRu

This Di ri , rloes / Rmmt a/ roi s eonle, Cæ i æ rlo, hi ml, t Qi snæ s æ.

SRæfles 1 t æ, li e, i LL1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, rj/ lri : S E E o e x o b l q M D 1 j 0 A 2 3 3 7 9 0 3 0

Job ID: 570-76940-2

Client Sample ID: S-5-C3

Lab Sample ID: 570-72680-1

Date Collected: 10/12/21 09:20

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)	2.1		0.66	mgjKg	☆	20j62j62 2A:67	20j66j62 09:38	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 650			60j16j6 623 8	60j11j6 0: 37	6

## Method: NWTPH-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		AA	mgjKg	☆	20j62j62 60:33	20j66j62 02:30	5
TPH as Motor Oil Range	410		AA	mgjKg	☆	20j62j62 60:33	20j66j62 02:30	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	72		50 - 650			60j16j6 / 0344	60j11j6 0630	5

Client Sample ID: S-7.5-C3

Lab Sample ID: 570-72680-2

Date Collected: 10/12/21 09:25

Matrix: Solid

Date Received: 10/13/21 10:15

## 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	mgjKg	☆	20j62j62 2A:67	20j66j62 25:57	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		50 - 650			60j16j6 623 8	60j12j6 6538	600

## Method: NWTPH-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		27	mgjKg	☆	20j62j62 60:33	20j66j62 06:00	2
TPH as Motor Oil Range	1200		27	mgjKg	☆	20j62j62 60:33	20j66j62 06:00	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	84		50 - 650			60j16j6 / 0344	60j11j6 0/ 30	6

Client Sample ID: S-10-C3

Lab Sample ID: 570-72680-3

Date Collected: 10/12/21 09:30

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
TcH t s Rt so e i N 3-1 2AG	( D		0.A0	mgjKg	☆	20j69j62 26:69	20j69j62 24:68	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	664		50 - 650			60j11j6 6/ 3:	60j11j6 693 7	6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Dli si Q t egi	( D		9.0	mgjKg	☆	20j62j62 60:33	20j66j62 06:60	2
TPH as Motor Oil Range	6.6		9.0	mgjKg	☆	20j62j62 60:33	20j66j62 06:60	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	7:		50 - 650			60j16j6 / 0344	60j11j6 0/ 3 0	6

Su a f l e s 1 t G, l i e, i L L 1



# Client Sample Results

10 en 1 t a eodle,  
c a d P, rj/ lri : S E E o e x o b l q M D 1 j 0 A 2 3 3 7 9 0 3 0

Job ID: 570-76940-2

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		0.67	mgjKg	☆	20j62j62 2A:67	20j66j62 04:63	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		50 - 650			60j16j16 623:8	60j11j16 093:4	6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Dli si Cj t egi	( D		9.9	mgjKg	☆	20j62j62 60:33	20j66j62 06:32	2
TcH t s x o r b a O I Q j t egi	( D		9.9	mgjKg	☆	20j62j62 60:33	20j66j62 06:32	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	72		50 - 650			60j16j16 / 0344	60j11j16 07:36	6

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		62	mgjKg	☆	20j62j62 2A:67	20j6Aj62 25:AA	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 650			60j16j16 623:8	60j12j16 653:2	600

## Method: NWTPH-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		59	mgjKg	☆	20j62j62 60:33	20j66j62 0A:02	20
TPH as Motor Oil Range	3600		59	mgjKg	☆	20j62j62 60:33	20j66j62 0A:02	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	604		50 - 650			60j16j16 / 0344	60j11j16 023:6	60

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		83	mgjKg	☆	20j62j62 2A:67	20j6Aj62 29:33	650
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		50 - 650			60j16j16 623:8	60j12j16 66:34	/ 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	4600		90	mgjKg	☆	20j62j62 60:33	20j66j62 0A:60	20
TPH as Motor Oil Range	2200		90	mgjKg	☆	20j62j62 60:33	20j66j62 0A:60	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	602		50 - 650			60j16j16 / 0344	60j11j16 023:0	60

Su a f l e s 1 t G, l i e, i L L 1

# Client Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : S Eæex obljMD1j0A23379030

Job ID: 570-76940-2

**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
TcH t s Rt soæi N 3-1 2AG	( D		0.6A	mgjKg	☆	20j62j62 2A:67	20j66j62 2A:55	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 0		50 - 650			60j6j6 6 62j 8	60j6j6 6 62j 55	6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Dli si Q t egi	( D		9.A	mgjKg	☆	20j62j62 60:33	20j66j62 0A:32	2
TcH t s x orpaOIQ t egi	( D		9.A	mgjKg	☆	20j62j62 60:33	20j66j62 0A:32	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	7:		50 - 650			60j6j6 6 / 0j 4	60j6j6 6 02j 36	6

**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		0.65	mgjKg	☆	20j62j62 2A:67	20j66j62 08:54	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		50 - 650			60j6j6 6 62j 8	60j6j6 6 07j 39	6

## Method: NWTPH-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		20	mgjKg	☆	20j62j62 60:33	20j69j62 26:29	6
TPH as Motor Oil Range	220		20	mgjKg	☆	20j62j62 60:33	20j69j62 26:29	6
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	85		50 - 650			60j6j6 6 / 0j 4	60j6j6 6 6j 3:	/

**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		22	mgjKg	☆	20j62j62 2A:67	20j6Aj62 25:20	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		50 - 650			60j6j6 6 62j 8	60j6j6 6 65j 30	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		260	mgjKg	☆	20j62j62 60:33	20j66j62 03:66	60
TPH as Motor Oil Range	2100		260	mgjKg	☆	20j62j62 60:33	20j66j62 03:66	60
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	608		50 - 650			60j6j6 6 / 0j 4	60j6j6 6 04j 3/	/ 0

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# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j / l i : S E E o e x o b l q M D 1 j 0 A 2 3 3 7 9 0 3 0

Job ID: 570-76940-2

Client Sample ID: S-7.5-E3

Lab Sample ID: 570-72680-10

Date Collected: 10/12/21 10:20

Matrix: Solid

Date Received: 10/13/21 10:15

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tc H t s R t s o e i N 3-1 2AG	( D		0.62	mgjKg	☆	20j62j62 2A:67	20j66j62 25:24	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 650			60j16j16 623:8	60j1j16 653:9	6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tc H t s D l i s i C j t e g i	( D		5.9	mgjKg	☆	20j62j62 60:33	20j66j62 03:32	2
TPH as Motor Oil Range	9.0		5.9	mgjKg	☆	20j62j62 60:33	20j66j62 03:32	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	78		50 - 650			60j16j16 / 03:4	60j1j16 043:6	6

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	650		52	mgjKg	☆	20j62j62 2A:67	20j6Aj62 29:62	600
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		50 - 650			60j16j16 623:8	60j12j16 6:36	/ 00

## Method: NWTPH-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		9A0	mgjKg	☆	20j62j62 60:33	20j66j62 05:06	200
TPH as Motor Oil Range	9200		9A0	mgjKg	☆	20j62j62 60:33	20j66j62 05:06	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	68/	S6+	50 - 650			60j16j16 / 03:4	60j1j16 053:/	600

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	770		260	mgjKg	☆	20j62j62 2A:67	20j6Aj62 27:04	650
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		50 - 650			60j16j16 623:8	60j12j16 683:9	/ 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	36000		630	mgjKg	☆	20j62j62 60:33	20j66j62 22:67	5
TPH as Motor Oil Range	3100		630	mgjKg	☆	20j62j62 60:33	20j66j62 22:67	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	74		50 - 650			60j16j16 / 03:4	60j1j16 663:8	5

Su a f l e s 1 t G, l i e, i L L 1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, rj/ lri : S E E o e x o b l q M D 1 j 0 A 2 3 3 7 9 0 3 0

Job ID: 570-76940-2

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	740		280	mgjKg	☆	20j62j62 2A:67	20j6A:62 27:A2	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		50 - 650			60j1 6j1 6 623 8	60j1 2j1 6 683 6	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		660	mgjKg	☆	20j62j62 60:33	20j66j62 22:37	5
TPH as Motor Oil Range	1700		660	mgjKg	☆	20j62j62 60:33	20j66j62 22:37	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	7:		50 - 650			60j1 6j1 6 / 0344	60j1 / 1 6 663 8	5

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	140		28	mgjKg	☆	20j62j62 2A:67	20j65j62 60:38	60
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	6/ :		50 - 650			60j1 6j1 6 623 8	60j1 5j1 6 / 0347	/ 0

## Method: NWTPH-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		290	mgjKg	☆	20j62j62 60:33	20j66j62 26:07	20
TPH as Motor Oil Range	2500		290	mgjKg	☆	20j62j62 60:33	20j66j62 26:07	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	606		50 - 650			60j1 6j1 6 / 0344	60j1 / 1 6 6 / 38	60

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

## 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		0.66	mgjKg	☆	20j62j62 2A:67	20j65j62 28:26	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	664		50 - 650			60j1 6j1 6 623 8	60j1 5j1 6 673 6/	6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Dli si Q t egi	( D		9.5	mgjKg	☆	20j62j62 60:33	20j66j62 07:07	2
TcH t s x orbaOIQ t egi	( D		9.5	mgjKg	☆	20j62j62 60:33	20j66j62 07:07	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	75		50 - 650			60j1 6j1 6 / 0344	60j1 / 1 6 083 8	6

Su a f l e s 1 t G, l i e, i L L 1

# Client Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEx oblQMD1j0A23379030

Job ID: 570-76940-2

**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
TcH t s Rt soæi N 3-1 2AG	( D		0.66	mgjKg	☆	20j62j62 2A:67	20j65j62 28:A9	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	666		50 - 650			60j6j6 6 623 8	60j6j6 6 673:	6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Dli si Q t egi	( D		9.0	mgjKg	☆	20j62j62 60:33	20j66j62 07:69	2
TcH t s x orpaOIQ t egi	( D		9.0	mgjKg	☆	20j62j62 60:33	20j66j62 07:69	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	79		50 - 650			60j6j6 6 / 0344	60j6j6 6 083:	6

**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
TcH t s Rt soæi N 3-1 2AG	( D		0.87	mgjKg	☆	20j62j62 2A:67	20j66j62 29:56	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 7		50 - 650			60j6j6 6 623 8	60j6j6 6 63:	6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Dli si Q t egi	( D		63	mgjKg	☆	20j62j62 60:33	20j66j62 07:39	2
TcH t s x orpaOIQ t egi	( D		63	mgjKg	☆	20j62j62 60:33	20j66j62 07:39	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	78		50 - 650			60j6j6 6 / 0344	60j6j6 6 083:	6

**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		0.66	mgjKg	☆	20j62j62 2A:67	20j66j62 27:25	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		50 - 650			60j6j6 6 623 8	60j6j6 6 6835	6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Dli si Q t egi	( D		9.2	mgjKg	☆	20j62j62 60:33	20j66j62 04:07	2
TcH t s x orpaOIQ t egi	( D		9.2	mgjKg	☆	20j62j62 60:33	20j66j62 04:07	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	79		50 - 650			60j6j6 6 / 0344	60j6j6 6 09308	6

Suæfles 1 t G, li e, i LL1

# Client Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex oblgMD1j0A23379030

Job ID: 570-76940-2

**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		3.8	mgjKg	☆	20j62j62 2A:67	20j65j62 66:06	60
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		50 - 650			60j6j6j6 62j3 8	60j6j6j6 6j30j	/ 0

## Method: NWTPH-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		9.0	mgjKg	☆	20j62j62 60:33	20j66j62 04:64	2
TPH as Motor Oil Range	25		9.0	mgjKg	☆	20j62j62 60:33	20j66j62 04:64	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	75		50 - 650			60j6j6j6 03j4	60j6j6j6 09j3 9	6

**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
TcH t s Rt soæi N 3-1 2AG	( D		6.A	mgjKg	☆	20j62j62 2A:67	20j65j62 60:02	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		50 - 650			60j6j6j6 62j3 8	60j6j6j6 03j6	6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TcH t s Dli si Q t egi	( D		59	mgjKg	☆	20j62j62 60:33	20j66j62 04:34	2
TPH as Motor Oil Range	83		59	mgjKg	☆	20j62j62 60:33	20j66j62 04:34	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	74		50 - 650			60j6j6j6 03j4	60j6j6j6 09j3 9	6

**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
TcH t s Rt soæi N 3-1 2AG	( D		200	ugjL			20j28j62 62:38	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	5:		50 - 650				60j6j6j6 63j7	6

**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
TcH t s Rt soæi N 3-1 2AG	( D		2.8	mgjKg	☆	20j62j62 2A:67	20j66j62 24:69	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 650			60j6j6j6 62j3 8	60j6j6j6 69j3 :	6

Suæfles 1 t æ, li e, i LL1



# Client Sample Results

10 en 1 t a eodle,  
c a P, rj/ lri : S E E o e x o b l Q M D 1 j 0 A 2 3 3 7 9 0 3 0

Job ID: 570-76940-2

**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
Tc H t s D l i s i Q t e g i	( D		5A0	mgjKg	☆	20j62j62 62:A2	20j66j62 66:6A	20
<b>TPH as Motor Oil Range</b>	<b>570</b>		5A0	mgjKg	☆	20j62j62 62:A2	20j66j62 66:6A	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	7/		50 - 650			60j16j16 6/636	60j11j16 1/32	60

**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>		A70	mgjKg	☆	20j62j62 2A:67	20j66j62 24:28	2000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		50 - 650			60j16j16 6238	60j12j16 6937	6000

## 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>		2A0	mgjKg	☆	20j62j62 62:A2	20j66j62 66:3A	5
<b>TPH as Motor Oil Range</b>	<b>3000</b>		2A0	mgjKg	☆	20j62j62 62:A2	20j66j62 66:3A	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	60:		50 - 650			60j16j16 6/636	60j11j16 1/32	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>		2200	mgjKg	☆	20j62j62 2A:67	20j65j62 62:A4	2000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		50 - 650			60j16j16 6238	60j15j16 6/639	6000

## 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	mgjKg	☆	20j62j62 62:A2	20j66j62 6A:03	60
<b>TPH as Motor Oil Range</b>	<b>7100</b>		700	mgjKg	☆	20j62j62 62:A2	20j66j62 6A:03	60
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	605		50 - 650			60j16j16 6/636	60j11j16 1/234	/0

**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
Tc H t s R t s o a i N 3-1 2AG	( D		2.9	mgjKg	☆	20j62j62 2A:67	20j65j62 60:65	2

Su a f l e s 1 t G, l i e, i L L 1

# Client Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex oblQMD1j0A23379030

Job ID: 570-76940-2

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)	8:		50 - 650	601' 61' 6 623' 8	601' 51' 6 / 03' 5	6

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup - DL									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
TcH t s Dli si Q t egi	( D		220	mgjKg	☆	20j62j62 62:A2	20j69j62 2A:06	6	
TPH as Motor Oil Range	730		220	mgjKg	☆	20j62j62 62:A2	20j69j62 2A:06	6	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	72		50 - 650	601' 61' 6 / 63' 6	601' : 1' 6 623' /	/

# 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

Eurofins Calscience LLC

# 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

10 en 1 t a eodle,  
c a P, rj/ lri : SEEex oblQMD1j0A23379030

Job ID: 570-76940-2

## 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
. c m t g K t g o d e i 3-1 2A8	TD		200	HsjR			20j2N62 24:56	2
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		80 - 180				10/17/21 1: 32	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
. c m t g K t g o d e i 3-1 2A8	62A0	60NN		HsjR		NN	79 - 264
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	71		80 - 180				

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
. c m t g K t g o d e i 3-1 2A8	62A0	6222		HsjR		NN	79 - 264	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	: 6		80 - 180						

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
. c m t g K t g o d e i 3-1 2A8	TD		62A0	6070		HsjR		N7	9N- 2A6
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	: 7		80 - 180						

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
. c m t g K t g o d e i 3-1 2A8	TD		62A0	6260		HsjR		200	9N- 2A6	6	25
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	71		80 - 180								

Shoeg 1 t Q, li e, i RR1



# QC Sample Results

10 en 1 t a eodle,  
c a P, rj/ lri : SEEex ob lQMD1j0A23379030

Job ID: 570-76940-2

## 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
. c m t g K t g o d e i 3-1 2A8	TD		0(65	) s j u s			20j66j62 00:A6	2
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64		80 - 180				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
. c m t g K t g o d e i 3-1 2A8	6(2A	2(77A		) s j u s		4A	77 - 264
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	79		80 - 180				

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
. c m t g K t g o d e i 3-1 2A8	6(2A	2(753		) s j u s		46	77 - 264	2	29
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	109		80 - 180						

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
. c m t g K t g o d e i 3-1 2A8	TD		0(65	) s j u s			20j66j62 26:2N	2
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7:		80 - 180				10/22/21 12:37	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
. c m t g K t g o d e i 3-1 2A8	6(26	6(A05		) s j u s		20N	77 - 264
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		80 - 180				

Shoeg 1 t Q, li e, i RR1

# QC Sample Results

10 en 1 t a eodle,  
c a P, rj/ lri : SEEex ob lQMD1j0A23379030

Job ID: 570-76940-2

## 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	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
. c m t g K t g o d e i 3-1 2A8	6(26	6(695		) sjus		207	77 - 264	6	29
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	111		80 - 180						

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
. c m t g K t g o d e i 3-1 2A8	TD		0(65	) sjus			20j66j62 23:A6	2
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 2		80 - 180				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	
. c m t g K t g o d e i 3-1 2A8	6(2A	2(492		) sjus		47	77 - 264	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	69		80 - 180					

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	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
. c m t g K t g o d e i 3-1 2A8	6(2A	2(4N4		) sjus		4N	77 - 264	6	29
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	: 5		80 - 180						

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
. c m t g K t g o d e i 3-1 2A8	TD		5(0	) sjus			20j6A j62 23:27	60
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		80 - 180				10/29/21 14:36	20

Sho Q g 1 t Q, l i e, i R R 1

# QC Sample Results

10 en 1 t a eodle,  
c a P, rj/ lri : SEEex ob lQMD1j0A23379030

Job ID: 570-76940-2

## 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
. c m t g K t g o d e i 3-1 2A8	6(26	2(NA6		) s j u s		N2	77 - 264
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	: 5		80 - 180				

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
. c m t g K t g o d e i 3-1 2A8	6(26	2(459		) s j u s		47	77 - 264	3	29
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	10:		80 - 180						

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
. c m t g K t g o d e i 3-1 2A8	TD		0(65	) s j u s			20j65j62 23:A0	2
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	78		80 - 180		10/28/21 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
. c m t g K t g o d e i 3-1 2A8	TD		5(0	) s j u s			20j65j62 23:53	60
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	74		80 - 180		10/28/21 14:34	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
. c m t g K t g o d e i 3-1 2A8	6(2A	6(243		) s j u s		206	77 - 264
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	120		80 - 180				

Shoeg 1 t Q, li e, i RR1

# QC Sample Results

10 en 1 t a eodle,  
c a P, rj/ lri : SEEex ob lQMD1j0A23379030

Job ID: 570-76940-2

## 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
. c m t g K t g o e i 3-1 2A8	6(2A	6(629		) sjus		203	77 - 264	2	29
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	129		80 - 180						

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
. c m t g K t g o e i 3-1 2A8	TD		0(65	) sjus		20j69j62 26:69	20j69j62 23:2A	2
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	72		80 - 180	10/25/21 1235	10/25/21 1439	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		
. c m t g K t g o e i 3-1 2A8			6(26	6(A02		) sjus		204	77 - 264		
Surrogate			LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)			122		80 - 180						

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
. c m t g K t g o e i 3-1 2A8	6(2A	6(6A3		) sjus		205	77 - 264	A	29
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	122		80 - 180						

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		
. c m t g K t g o e i 3-1 2A8	TD		6(50	6(09N		) sjus	f	77	34 - 223		
Surrogate	%Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	129		80 - 180								

Shoeg 1 t Q, li e, i RR1

# QC Sample Results

10 en 1 t a eodle,  
c a d P, r j / l i n : S E E o e x o b l q M D 1 j 0 A 2 3 3 7 9 0 3 0

Job ID: 570-76940-2

## 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
. c m t g K t g o d e i 3-1 2 A 8	TD		6(50	6(07N		) s j u s	f	77	34 - 223	0	6A
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	12:		80 - 180								

## 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
. c m t g D l i g i Q t e s i	TD		5(0	) s j u s		20j62j62 60:33	20j62j62 66:30	2
. c m t g x o r p a O I Q t e s i	TD		5(0	) s j u s		20j62j62 60:33	20j62j62 66:30	2
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	72		80 - 180			10/21/21 2034	10/21/21 2234	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
. c m t g D l i g i C t 20-1 6 4 8	300	A70(A		) s j u s		NA	79 - 269
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	74		80 - 180				

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
. c m t g x o r p a O I C t 27-1 3 3 8	300	303(N		) s j u s		202	72 - 2AN
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	72		80 - 180				

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
. c m t g D l i g i C t 20-1 6 4 8	300	A9A(9		) s j u s		N2	79 - 269	6	60
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	76		80 - 180						

Sh o g 1 t q, l i e, i R R 1

# QC Sample Results

10 en 1 t a eodle,  
c a P, rj/ lri : SEEex oblQMD1j0A23379030

Job ID: 570-76940-2

## 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
. c m t g x o r b a O I C 1 2 7 - 1 3 3 8	300	360(A		) s j u s		205	72 - 2AN	3	60
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	76		80 - 180						

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
. c m t g D l i g i C 1 2 0 - 1 6 4 8	A90		37N	9A9(A		) s j u s	f	54	A7 - 275		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	7		80 - 180								

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
. c m t g x o r b a O I C 1 2 7 - 1 3 3 8	550		523	2244		) s j u s	f	263	72 - 273		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	74		80 - 180								

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
. c m t g D l i g i C 1 2 0 - 1 6 4 8	A90		565	773(6		) s j u s	f	7N	A7 - 275	60	60
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	7		80 - 180								

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
. c m t g x o r b a O I C 1 2 7 - 1 3 3 8	550		5A2	2263		) s j u s	f	204	72 - 273	9	60
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	77		80 - 180								

Shoeg 1 t @, li e, i RR1



# QC Sample Results

10 en 1 t a eodle,  
c a P, rj/ lri : SEEex oblQMD1j0A23379030

Job ID: 570-76940-2

## 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
. c m t g D l i g i Q t e s i	TD		5(0	) s j u s		20j62j62 62:A2	20j66j62 2N27	2
. c m t g x o r b a O I Q t e s i	TD		5(0	) s j u s		20j62j62 62:A2	20j66j62 2N27	2
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		80 - 180			10/21/21 21:31	10/22/21 17:36	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	Limits	%Rec.
. c m t g D l i g i C t 20-1648	300	369(N		) s j u s		207	79 - 269	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	102		80 - 180					

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	Limits	%Rec.
. c m t g x o r b a O I C t 27-1338	300	304(0		) s j u s		206	72 - 2AN	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	102		80 - 180					

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	Limits	%Rec.	RPD	Limit
. c m t g D l i g i C t 20-1648	300	32A(2		) s j u s		20A	79 - 269		A	60
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)	77		80 - 180							

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	Limits	%Rec.	RPD	Limit
. c m t g x o r b a O I C t 27-1338	300	360(2		) s j u s		205	72 - 2AN		A	60
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
n-Octacosane (Surr)	109		80 - 180							

Shoeg 1 t @, li e, i RR1

# QC Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex obIQMD1j0A23379030

Job ID: 570-76940-2

## 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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
. c m t g D l i g i C 1 2 0 - 1 6 4 8	5500		354	5900	3	) s j u s	f	60	A7 - 275
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	105		80 - 180						

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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
. c m t g D l i g i C 1 2 0 - 1 6 4 8	5500		33A	5934	3	) s j u s	f	A2	A7 - 275	2	60
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	114		80 - 180								

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 Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
. c m t g x o r a O I C 1 2 7 - 1 3 3 8	3300		3AN	3A54	3	) s j u s	f	-A	72 - 273
Surrogate	MS %Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	104		80 - 180						

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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
. c m t g x o r a O I C 1 2 7 - 1 3 3 8	3300		39A	565A	3	) s j u s	f	2N0	72 - 273	2N	60
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	114		80 - 180								

SHaCeg 1 t Q, l i e, i RR1

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil/ADC/0412279020

Job ID: 570-76930-1

## GC VOA

### Analysis e atcpBh: 1773

QaL SambR ID	CR nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-61	TriUWanG	Total/HA	. ater	H. TPN-8 x	
MW570-137996/5	MetBod WanG	Total/HA	. ater	H. TPN-8 x	
hCS 570-137996/4	hab Control Sak Ue	Total/HA	. ater	H. TPN-8 x	
hCSD 570-137996/2	hab Control Sak Ue DLU	Total/HA	. ater	H. TPN-8 x	
570-76n9mD-4 MS	Matrix SUGe	Total/HA	. ater	H. TPN-8 x	
570-76n9mD-4 MSD	Matrix SUGe DLUicate	Total/HA	. ater	H. TPN-8 x	

### Trl b e atcpBh: : 358

QaL SambR ID	CR nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-1	S-5-C4	Total/HA	Solid	5045	
570-76930-2	S-16p5-C4	Total/HA	Solid	5045	
570-76930-7	S-10-D6	Total/HA	Solid	5045	
570-76930-3	S-6p5-E4	Total/HA	Solid	5045	
570-76930-10	S-7p5-E4	Total/HA	Solid	5045	
570-76930-15	S-15-E5	Total/HA	Solid	5045	
570-76930-19	S-15-E9A	Total/HA	Solid	5045	
570-76930-17	S-15-C3A	Total/HA	Solid	5045	
570-76930-13	S-15-E3A	Total/HA	Solid	5045	
570-76930-60	S-60-E3A	Total/HA	Solid	5045	
570-76930-66	S-60-E3A Du P	Total/HA	Solid	5045	
570-76930-65	S-60-8 3A	Total/HA	Solid	5045	

### Trl b e atcpBh: : 357

QaL SambR ID	CR nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-6	S-7p5-C4	Total/HA	Solid	5045	
570-76930-5	S-5-D6	Total/HA	Solid	5045	
570-76930-9	S-7p5-D6	Total/HA	Solid	5045	
570-76930-m	S-5-E4	Total/HA	Solid	5045	
570-76930-11	S-5-E5	Total/HA	Solid	5045	
570-76930-16	S-7p5-E5	Total/HA	Solid	5045	
570-76930-14	S-10-E5	Total/HA	Solid	5045	
570-76930-12	S-16p5-E5	Total/HA	Solid	5045	
570-76930-1m	S-17p5-E3A	Total/HA	Solid	5045	
570-76930-64	S-15-8 3A	Total/HA	Solid	5045	
570-76930-62	S-17p5-8 3A	Total/HA	Solid	5045	

### Analysis e atcpBh: : 528

QaL SambR ID	CR nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-1	S-5-C4	Total/HA	Solid	H. TPN-8 x	133645
570-76930-2	S-16p5-C4	Total/HA	Solid	H. TPN-8 x	133645
570-76930-3	S-6p5-E4	Total/HA	Solid	H. TPN-8 x	133645
MW570-133405/44	MetBod WanG	Total/HA	Solid	H. TPN-8 x	
hCS 570-133405/41	hab Control Sak Ue	Total/HA	Solid	H. TPN-8 x	
hCSD 570-133405/46	hab Control Sak Ue DLU	Total/HA	Solid	H. TPN-8 x	

### Analysis e atcpBh: : 912

QaL SambR ID	CR nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-7	S-10-D6	Total/HA	Solid	H. TPN-8 x	133645
MW570-133270/9	MetBod WanG	Total/HA	Solid	H. TPN-8 x	
hCS 570-133270/2	hab Control Sak Ue	Total/HA	Solid	H. TPN-8 x	
hCSD 570-133270/5	hab Control Sak Ue DLU	Total/HA	Solid	H. TPN-8 x	

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil/ADC/0412279020

Job ID: 570-76930-1

## GC VOA

### Analysis e atcpBh: : 87:

OaL SambR ID	CR nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-10	S-7p5-E4	Total/HA	Solid	H. TPN-8 x	133645
570-76930-17	S-15-C3A	Total/HA	Solid	H. TPN-8 x	133645
570-76930-13	S-15-E3A	Total/HA	Solid	H. TPN-8 x	133645
570-76930-66	S-60-E3A Du P	Total/HA	Solid	H. TPN-8 x	133645
MW570-133593/5	MetBod WanG	Total/HA	Solid	H. TPN-8 x	
hCS 570-133593/4	hab Control Sak Ue	Total/HA	Solid	H. TPN-8 x	
hCSD 570-133593/2	hab Control Sak Ue DLU	Total/HA	Solid	H. TPN-8 x	

### Analysis e atcpBh: : 72

OaL SambR ID	CR nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-6	S-7p5-C4	Total/HA	Solid	H. TPN-8 x	133649
570-76930-5	S-5-D6	Total/HA	Solid	H. TPN-8 x	133649
570-76930-9	S-7p5-D6	Total/HA	Solid	H. TPN-8 x	133649
570-76930-m	S-5-E4	Total/HA	Solid	H. TPN-8 x	133649
570-76930-11	S-5-E5	Total/HA	Solid	H. TPN-8 x	133649
570-76930-16	S-7p5-E5	Total/HA	Solid	H. TPN-8 x	133649
570-76930-14	S-10-E5	Total/HA	Solid	H. TPN-8 x	133649
570-76930-64	S-15-8 3A	Total/HA	Solid	H. TPN-8 x	133649
MW570-133390/9	MetBod WanG	Total/HA	Solid	H. TPN-8 x	
hCS 570-133390/4	hab Control Sak Ue	Total/HA	Solid	H. TPN-8 x	
hCSD 570-133390/2	hab Control Sak Ue DLU	Total/HA	Solid	H. TPN-8 x	

### Analysis e atcpBh: 6216

OaL SambR ID	CR nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-12	S-16p5-E5	Total/HA	Solid	H. TPN-8 x	133649
570-76930-15	S-15-E5	Total/HA	Solid	H. TPN-8 x	133645
570-76930-19	S-15-E9A	Total/HA	Solid	H. TPN-8 x	133645
570-76930-1m	S-17p5-E3A	Total/HA	Solid	H. TPN-8 x	133649
570-76930-60	S-60-E3A	Total/HA	Solid	H. TPN-8 x	133645
570-76930-62	S-17p5-8 3A	Total/HA	Solid	H. TPN-8 x	133649
570-76930-65	S-60-8 3A	Total/HA	Solid	H. TPN-8 x	133645
MW570-13n07m5	MetBod WanG	Total/HA	Solid	H. TPN-8 x	
MW570-13n07m9	MetBod WanG	Total/HA	Solid	H. TPN-8 x	
hCS 570-13n07m4	hab Control Sak Ue	Total/HA	Solid	H. TPN-8 x	
hCSD 570-13n07m2	hab Control Sak Ue DLU	Total/HA	Solid	H. TPN-8 x	

### Analysis e atcpBh: 6579

OaL SambR ID	CR nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-4	S-10-C4	Total/HA	Solid	H. TPN-8 x	13n4mr
MW570-13n4mm4-A	MetBod WanG	Total/HA	Solid	H. TPN-8 x	13n4mr
hCS 570-13n4mm1-A	hab Control Sak Ue	Total/HA	Solid	H. TPN-8 x	13n4mr
hCSD 570-13n4mm6-A	hab Control Sak Ue DLU	Total/HA	Solid	H. TPN-8 x	13n4mr
570-76930-4 MS	S-10-C4	Total/HA	Solid	H. TPN-8 x	13n4mr
570-76930-4 MSD	S-10-C4	Total/HA	Solid	H. TPN-8 x	13n4mr

### Trl b e atcpBh: 6566

OaL SambR ID	CR nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-4	S-10-C4	Total/HA	Solid	5045	
MW570-13n4mm4-A	MetBod WanG	Total/HA	Solid	5045	
hCS 570-13n4mm1-A	hab Control Sak Ue	Total/HA	Solid	5045	
hCSD 570-13n4mm6-A	hab Control Sak Ue DLU	Total/HA	Solid	5045	

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil/ADC/0412279020

Job ID: 570-76930-1

## GC VOA (Continul 4)

### Trl b e atcpBh: 6566 (Continul 4)

QaL SambR ID	CRl nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-4 MS	S-10-C4	Total/HA	Solid	5045	
570-76930-4 MSD	S-10-C4	Total/HA	Solid	5045	

## GC SI mi VOA

### Trl b e atcpBh: : 512

QaL SambR ID	CRl nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-1	S-5-C4	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-6	S-7p5-C4	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-4	S-10-C4	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-2	S-16p5-C4	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-5	S-5-D6	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-9	S-7p5-D6	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-7	S-10-D6	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-3	S-6p5-E4	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-m	S-5-E4	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-10	S-7p5-E4	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-11	S-5-E5	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-16	S-7p5-E5	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-14	S-10-E5	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-12	S-16p5-E5	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-15	S-15-E5	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-19	S-15-E9A	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-17	S-15-C3A	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-13	S-15-E3A	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-1m	S-17p5-E3A	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-60	S-60-E3A	Silica 8 el CleanLU	Solid	4550C S8 C	
MW570-133470/1-A	MetBod WanG	Silica 8 el CleanLU	Solid	4550C S8 C	
hCS 570-133470/6-A	hab Control Sak Ue	Silica 8 el CleanLU	Solid	4550C S8 C	
hCS 570-133470/9-A	hab Control Sak Ue	Silica 8 el CleanLU	Solid	4550C S8 C	
hCSD 570-133470/4-A	hab Control Sak Ue DLU	Silica 8 el CleanLU	Solid	4550C S8 C	
hCSD 570-133470/7-A	hab Control Sak Ue DLU	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-1 MS	S-5-C4	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-1 MS	S-5-C4	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-1 MSD	S-5-C4	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-1 MSD	S-5-C4	Silica 8 el CleanLU	Solid	4550C S8 C	

### AnaRysis e atcpBh: : 515

QaL SambR ID	CRl nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-1	S-5-C4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-6	S-7p5-C4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-4	S-10-C4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-2	S-16p5-C4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-5	S-5-D6	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-9	S-7p5-D6	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-7	S-10-D6	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-m	S-5-E4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-10	S-7p5-E4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-11	S-5-E5	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-16	S-7p5-E5	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-14	S-10-E5	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil/ADC/0412279020

Job ID: 570-76930-1

## GC SI mi VOA (Continul 4)

### AnaRysis e atcpBh: : 515 (Continul 4)

0aL SambR ID	CRl nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-12	S-16p-E5	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-15	S-15-E5	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-19	S-15-E9A	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-17	S-15-C3A	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-13	S-15-E3A	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-1m	S-17p-E3A	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-60	S-60-E3A	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
MW570-133470/1-A	MetBod WanG	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
hCS 570-133470/6-A	hab Control Sak Ue	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
hCS 570-133470/9-A	hab Control Sak Ue	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
hCSD 570-133470/4-A	hab Control Sak Ue DLU	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
hCSD 570-133470/7-A	hab Control Sak Ue DLU	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-1 MS	S-5-C4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-1 MS	S-5-C4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-1 MSD	S-5-C4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470
570-76930-1 MSD	S-5-C4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470

### Trl b e atcpBh: : 518

0aL SambR ID	CRl nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-66	S-60-E3A Du P	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-64	S-15-8 3A	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-62	S-17p-8 3A	Silica 8 el CleanLU	Solid	4550C S8 C	
570-76930-65 - Dh	S-60-8 3A	Silica 8 el CleanLU	Solid	4550C S8 C	
MW570-133475/1-A	MetBod WanG	Silica 8 el CleanLU	Solid	4550C S8 C	
hCS 570-133475/6-A	hab Control Sak Ue	Silica 8 el CleanLU	Solid	4550C S8 C	
hCS 570-133475/9-A	hab Control Sak Ue	Silica 8 el CleanLU	Solid	4550C S8 C	
hCSD 570-133475/4-A	hab Control Sak Ue DLU	Silica 8 el CleanLU	Solid	4550C S8 C	
hCSD 570-133475/7-A	hab Control Sak Ue DLU	Silica 8 el CleanLU	Solid	4550C S8 C	
570-7635mA-66-A MS	Matrix SUGe	Silica 8 el CleanLU	Solid	4550C S8 C	
570-7635mA-66-WMSD	Matrix SUGe DLUicate	Silica 8 el CleanLU	Solid	4550C S8 C	
570-7635mA-66-C MS	Matrix SUGe	Silica 8 el CleanLU	Solid	4550C S8 C	
570-7635mA-66-D MSD	Matrix SUGe DLUicate	Silica 8 el CleanLU	Solid	4550C S8 C	

### AnaRysis e atcpBh: : 88:

0aL SambR ID	CRl nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-66	S-60-E3A Du P	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
570-76930-64	S-15-8 3A	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
570-76930-62	S-17p-8 3A	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
MW570-133475/1-A	MetBod WanG	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
hCS 570-133475/6-A	hab Control Sak Ue	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
hCS 570-133475/9-A	hab Control Sak Ue	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
hCSD 570-133475/4-A	hab Control Sak Ue DLU	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
hCSD 570-133475/7-A	hab Control Sak Ue DLU	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
570-7635mA-66-A MS	Matrix SUGe	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
570-7635mA-66-WMSD	Matrix SUGe DLUicate	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
570-7635mA-66-C MS	Matrix SUGe	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475
570-7635mA-66-D MSD	Matrix SUGe DLUicate	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475

### AnaRysis e atcpBh: 6557

0aL SambR ID	CRl nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-3	S-6p-E4	Silica 8 el CleanLU	Solid	H. TPN-Dx	133470

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QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil/ADC/0412279020

Job ID: 570-76930-1

GC SI mi VOA (Continul 4)

AnaRysis e atcpBh: 6557 (Continul 4)

0aL SambR ID	CRI nt SambR ID	Trl b Mybl	x atrid	x l tpo4	Trl b e atcp
570-76930-65 - Dh	S-60-8 3A	Silica 8 el CleanLU	Solid	H. TPN-Dx	133475

- 1
- 2
- 3
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- 8
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- 10
- 11
- 12
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- 14
- 15

# 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		1	5 g	5 mL	188305	10/22/21 06:49	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.49 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188373	10/22/21 01:40	N1A	ECL 1
		Instrument ID: GC50								

**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		100	5 mL	5 mL	188860	10/23/21 15:57	P1R	ECL 2
		Instrument ID: GC56								
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		1			188373	10/22/21 02:00	N1A	ECL 1
		Instrument ID: GC50								

**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		1	5 g	5 mL	189364	10/26/21 18:29	P1R	ECL 2
		Instrument ID: GC1								
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		1			188373	10/22/21 02:20	N1A	ECL 1
		Instrument ID: GC50								

**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		1	5 g	5 mL	188305	10/22/21 08:24	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.15 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 02:41	N1A	ECL 1
		Instrument ID: GC50								

# 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		100	5 mL	5 mL	188860	10/23/21 15:33	P1R	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.41 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188373	10/22/21 03:01	N1A	ECL 1
		Instrument ID: GC50								

**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		250	5 mL	5 mL	188860	10/23/21 16:44	P1R	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.13 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			188373	10/22/21 03:20	N1A	ECL 1
		Instrument ID: GC50								

**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		1	5 g	5 mL	188470	10/22/21 13:55	A9VE	ECL 2
		Instrument ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.79 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 03:41	N1A	ECL 1
		Instrument ID: GC50								

**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		1	5 g	5 mL	188305	10/22/21 09:58	A9VE	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			10.22 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		2			189336	10/26/21 12:16	N5Y3	ECL 1
		Instrument ID: GC50								

# Lab Chronicle

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

Job ID: 570-72680-1

**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**

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		50	5 mL	5 mL	188860	10/23/21 15:10	P1R	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.58 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		20			188373	10/22/21 04:22	N1A	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-7.5-E3**

**Date Collected: 10/12/21 10:20**

**Date Received: 10/13/21 10:15**

**Lab Sample ID: 570-72680-10**

**Matrix: Solid**

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		1	5 g	5 mL	188568	10/22/21 15:18	A9VE	ECL 2
		Instrument ID: GC57								
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		1			188373	10/22/21 04:41	N1A	ECL 1
		Instrument ID: GC50								

**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**

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		200	5 mL	5 mL	188860	10/23/21 16:21	P1R	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			9.86 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		100			188373	10/22/21 05:02	N1A	ECL 1
		Instrument ID: GC50								

**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**

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		250	5 mL	5 mL	188860	10/23/21 17:08	P1R	ECL 2
		Instrument ID: GC56								
Silica Gel Cleanup	Prep	3550C SGC			2.15 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			188373	10/22/21 11:27	N1A	ECL 1
		Instrument ID: GC50								

# 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		1	5 g	5 mL	188568	10/22/21 16:52	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			7.22 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 07:46	N1A	ECL 1
		Instrument ID: GC50								

**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		1	5 g	5 mL	188568	10/22/21 17:15	A9VE	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.07 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 08:07	N1A	ECL 1
		Instrument ID: GC50								

**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		20	5 mL	5 mL	189079	10/25/21 22:02	P1R	ECL 2
		Instrument ID: GC1								
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		1			188373	10/22/21 08:28	N1A	ECL 1
		Instrument ID: GC50								

**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		1	5 g	5 mL	189079	10/25/21 20:01	P1R	ECL 2
		Instrument ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			5.32 g	10 mL	188370	10/21/21 20:44	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			188373	10/22/21 08:48	N1A	ECL 1
		Instrument ID: GC50								



# Lab Chronicle

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

Job ID: 570-72680-1

## Client Sample ID: Trip Blank

Date Collected: 10/12/21 00:00

Date Received: 10/13/21 10:15

## Lab Sample ID: 570-72680-21

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		1	5 mL	5 mL	187662	10/19/21 21:49	P1R	ECL 2
Instrument ID: GC25										

## Client Sample ID: S-20-E8A DUP

Date Collected: 10/12/21 13:25

Date Received: 10/13/21 10:15

## Lab Sample ID: 570-72680-22

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			3.584 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

Date Collected: 10/12/21 14:15

Date Received: 10/13/21 10:15

## Lab Sample ID: 570-72680-23

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			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

Date Collected: 10/12/21 14:20

Date Received: 10/13/21 10:15

## Lab Sample ID: 570-72680-24

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			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

1
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# Method Summary

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c a P, rj/ lri : SEEex oblQMD1j0A23379030

Job ID: 570-76940-2

Method	Method Description	Protocol	Laboratory
NWTcH-GE	Noahwi sn- VoCrtC ci ræCum cæru, rs (G1)	NWTcH	S1L 6
NWTcH-DE	Noahwi sn- / i ml-VoCrtC ci ræCum cæru, rs (G1)	NWTcH	S1L 2
A5501 / G1	8 0æ soel, SErtæ, ræoe	/ W439	S1L 2
50A01	cuaU ter Tæ y	/ W439	S1L 6
50A5	1 0si r / gsri m cuaU ter Tæ y	/ W439	S1L 6

## Protocol References:

NWTcH p Noahwi snTort Cæ i ræCum Hgr æ, t æoe  
/ W439 p æTi snx i rhor s " oaSFæ Qt ræU/ oæ Wt sri dchgsi, t 0æ hi ml, t 0æ i rhor sædThlæ Sr lææedNoFi mbi a2v49 Mæ r lns 8yr t ri s.

## Laboratory References:

S1L 2 p Suæfles 1 t 0æ, li e, i LL1 Lle, oæd7330 Lle, oæ Wt gdGt æ i e GæFi d1 Mv6432dTSL (723)4v5-53v3  
S1L 6 p Suæfles 1 t 0æ, li e, i LL1 Lt mysoed7335 Lt mysoe MFi dGt æ i e GæFi d1 Mv6432dTSL (723)4v5-53v3

72680



7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
Calscience  
TEL: (714) 896-6494 . FAX: (714) 894-7501

**Site Name**  
Provide MRN for retail or AFE for major projects  
Retail Project (MRN)  
Major Project (AFE)  
Project Name  
ExxonMobil ADC / 0314476040

Everett Bulk Plant

**CHAIN OF CUSTODY RECORD**

DATE: 10/12/2021  
PAGE 1 OF 2

ExxonMobil Engr  
Jennifer Sedlischek

LABORATORY CLIENT: <b>Cardno</b> 309 South Cloverdale Street Unit A13 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: <b>Robert Thompson</b> SAMPLER(S): <b>Paul Prevou, Cameron Penner-Ash, John Considine</b>		LAB USE ONLY: COOLER RECEIPT? 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"/> RWQB REPORTING <input checked="" type="checkbox"/> ARCHIVE SAMPLES UNTIL / /		570-72680 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. 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		CONTAINER TYPE	
SAMPLE ID		NO. OF CONT	
DATE		TIME	
FIELD POINT NAME		MAT. RIX	
1 S-5-C3		S	
2 S-7.5-C3		S	
3 S-10-C3		S	
4 S-12.5-C3		S	
5 S-5-D2		S	
6 S-7.5-D2		S	
7 S-10-D2		S	
8 S-12.5-D2		S	
9 S-5-E3		S	
10 S-7.5-E3		S	
11 S-10-E3		S	
12 S-12.5-E3		S	
13 S-5-E6A		S	
14 S-7.5-E6A		S	
15 S-10-E6A		S	
16 S-12.5-E6A		S	
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18 S-7.5-E8A		S	
19 S-10-E8A		S	
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## Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-72680-1

Login Number: 72680

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Patel, Jayesh

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<6\text{mm}$ (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/031447N040

Job ID: 570-72658-1

**Job ID: 570-72859-1**

**Laboratory: Eurofins Calscience LLC**

## Narrative

### Job Narrative 570-72859-1

#### Comments

no additional comments.

#### Revision

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#### VOA Prep

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# Detection Summary

10 en 1 t a eodle,  
cæp, rj/ lri : SEEex oblQMD1j0A2337030

Job ID: 570-76954-2

Client Sample ID: S-15-I8A

Lab Sample ID: 570-72859-1

To Di ni , floeHs

Client Sample ID: S-2.5-H6

Lab Sample ID: 570-72859-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	7s3		0s60	K NjWN	2	G	TO (c) -. E	(ort CTM
(c) t HDli H CRT eN	2900		64	K NjWN	5	G	TO (c) -DE	/ ICt . i C 1 Ct eup
(c) t Hx orpa8 ICRT eN	50		64	K NjWN	5	G	TO (c) -DE	/ ICt . i C 1 Ct eup

Client Sample ID: S-5-H6

Lab Sample ID: 570-72859-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	7s7		0s66	K NjWN	2	G	TO (c) -. E	(ort CTM
(c) t HDli H CRT eN	A400		59	K NjWN	20	G	TO (c) -DE	/ ICt . i C 1 Ct eup
(c) t Hx orpa8 ICRT eN	A300		59	K NjWN	20	G	TO (c) -DE	/ ICt . i C 1 Ct eup

Client Sample ID: S-7.5-H6

Lab Sample ID: 570-72859-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	3A0		57	K NjWN	650	G	TO (c) -. E	(ort CTM
(c) t HDli H CRT eN	9A00		50	K NjWN	20	G	TO (c) -DE	/ ICt . i C 1 Ct eup
(c) t Hx orpa8 ICRT eN	6600		50	K NjWN	20	G	TO (c) -DE	/ ICt . i C 1 Ct eup

Client Sample ID: S-10-H6

Lab Sample ID: 570-72859-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	920		93	K NjWN	650	G	TO (c) -. E	(ort CTM
(c) t HDli H CRT eN	5300		50	K NjWN	20	G	TO (c) -DE	/ ICt . i C 1 Ct eup
(c) t Hx orpa8 ICRT eN	2500		50	K NjWN	20	G	TO (c) -DE	/ ICt . i C 1 Ct eup

Client Sample ID: S-12.5-H6

Lab Sample ID: 570-72859-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	22		0s52	K NjWN	2	G	TO (c) -. E	(ort CTM
(c) t HDli H CRT eN	220		25	K NjWN	2	G	TO (c) -DE	/ ICt . i C 1 Ct eup
(c) t Hx orpa8 ICRT eN	73		25	K NjWN	2	G	TO (c) -DE	/ ICt . i C 1 Ct eup

Client Sample ID: S-3.5-I7

Lab Sample ID: 570-72859-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	A90		63	K NjWN	200	G	TO (c) -. E	(ort CTM
(c) t HDli H CRT eN	3300		0A	K NjWN	20	G	TO (c) -DE	/ ICt . i C 1 Ct eup
(c) t Hx orpa8 ICRT eN	2300		0A	K NjWN	20	G	TO (c) -DE	/ ICt . i C 1 Ct eup

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SuæfleH1t æl i e, i LL1

# Detection Summary

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cæp, rj/ lri : SEEex oblCMD1j0A2337030

Job ID: 570-76954-2

## Client Sample ID: S-5-I7

## Lab Sample ID: 570-72859-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	5s0		0sA6	K NjWN	2	G	TO (c) -. E	(ort CTM
(c) t HDli H CRt eN	5A		5s3	K NjWN	2	G	TO (c) -DE	/ IQt . i C
(c) t Hx orpa8 ICRt eN	6A		5s3	K NjWN	2	G	TO (c) -DE	1 Ct eup
								1 Ct eup

## Client Sample ID: S-10-I7

## Lab Sample ID: 570-72859-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	690		220	K NjWN	500	G	TO (c) -. E	(ort CTM
(c) t HDli H CRt eN	7A0		20	K NjWN	2	G	TO (c) -DE	/ IQt . i C
(c) t Hx orpa8 ICRt eN	200		20	K NjWN	2	G	TO (c) -DE	1 Ct eup
								1 Ct eup

## Client Sample ID: S-12.5-I7

## Lab Sample ID: 570-72859-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	44		07	K NjWN	60	G	TO (c) -. E	(ort CTM
(c) t HDli H CRt eN	2A0		7s3	K NjWN	2	G	TO (c) -DE	/ IQt . i C
(c) t Hx orpa8 ICRt eN	09		7s3	K NjWN	2	G	TO (c) -DE	1 Ct eup
								1 Ct eup

## Client Sample ID: S-15-I7

## Lab Sample ID: 570-72859-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t Hx orpa8 ICRt eN	200		A9	K NjWN	2	G	TO (c) -DE	/ IQt . i C
								1 Ct eup

## Client Sample ID: S-2.5-I5

## Lab Sample ID: 570-72859-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	AA0		22	K NjWN	50	G	TO (c) -. E	(ort CTM
(c) t HDli H CRt eN	7300		59	K NjWN	20	G	TO (c) -DE	/ IQt . i C
(c) t Hx orpa8 ICRt eN	2000		59	K NjWN	20	G	TO (c) -DE	1 Ct eup
								1 Ct eup

## Client Sample ID: S-5-I5

## Lab Sample ID: 570-72859-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	49		27	K NjWN	50	G	TO (c) -. E	(ort CTM
(c) t HDli H CRt eN	2400		00	K NjWN	20	G	TO (c) -DE	/ IQt . i C
(c) t Hx orpa8 ICRt eN	A70		00	K NjWN	20	G	TO (c) -DE	1 Ct eup
								1 Ct eup

## Client Sample ID: S-7.5-I5

## Lab Sample ID: 570-72859-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	490		260	K NjWN	500	G	TO (c) -. E	(ort CTM
(c) t HDli H CRt eN	3500		500	K NjWN	20	G	TO (c) -DE	/ IQt . i C
(c) t Hx orpa8 ICRt eN	470		500	K NjWN	20	G	TO (c) -DE	1 Ct eup
								1 Ct eup

(hlHDi n , doe / uKKt ay roi Heonle, Qri a r lo, hi Kl, t Qi Hæa Huæb

SuæfleH1 t G li e, i LL1

# Detection Summary

10 en 1 t a eodle,  
cæp, rj/ lri : SEEex oblQMD1j0A2337030

Job ID: 570-76954-2

## Client Sample ID: S-10-I5

## Lab Sample ID: 570-72859-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	970		A50	K N V W N	2000	G	TO (c) -. E	(ort C T M
(c) t HDli H CRt eN	7900		260	K N V W N	5	G	TO (c) -DE	/ I C t . i C 1 C t eup

## Client Sample ID: S-12.5-I5

## Lab Sample ID: 570-72859-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	A52		0559	K N V W N	2	G	TO (c) -. E	(ort C T M
(c) t HDli H CRt eN	6A		2A	K N V W N	2	G	TO (c) -DE	/ I C t . i C 1 C t eup
(c) t Hx orpa8 ICrt eN	35		2A	K N V W N	2	G	TO (c) -DE	/ I C t . i C 1 C t eup

## 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
(c) t H. t Hbæi m 3-12Ag	29A		0530	K N V W N	2	G	TO (c) -. E	(ort C T M
(c) t HDli H CRt eN	A3		23	K N V W N	2	G	TO (c) -DE	/ I C t . i C 1 C t eup
(c) t Hx orpa8 ICrt eN	55		23	K N V W N	2	G	TO (c) -DE	/ I C t . i C 1 C t eup

## Client Sample ID: S-5-H4

## Lab Sample ID: 570-72859-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	220		53	K N V W N	60	G	TO (c) -. E	(ort C T M
(c) t HDli H CRt eN	6200		69	K N V W N	5	G	TO (c) -DE	/ I C t . i C 1 C t eup
(c) t Hx orpa8 ICrt eN	A60		69	K N V W N	5	G	TO (c) -DE	/ I C t . i C 1 C t eup

## Client Sample ID: S-7.5-H4

## Lab Sample ID: 570-72859-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	053		056A	K N V W N	2	G	TO (c) -. E	(ort C T M
(c) t HDli H CRt eN	5A		53	K N V W N	2	G	TO (c) -DE	/ I C t . i C 1 C t eup

## Client Sample ID: S-2.5-I3

## Lab Sample ID: 570-72859-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	A52		0565	K N V W N	2	G	TO (c) -. E	(ort C T M
(c) t HDli H CRt eN	50		220	K N V W N	60	G	TO (c) -DE	/ I C t . i C 1 C t eup
(c) t Hx orpa8 ICrt eN	70		220	K N V W N	60	G	TO (c) -DE	/ I C t . i C 1 C t eup

## Client Sample ID: Trip Blank

## Lab Sample ID: 570-72859-21

To Di ri , rloehs

## Client Sample ID: S-5-I3

## Lab Sample ID: 570-72859-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t Hbæi m 3-12Ag	660		26	K N V W N	50	G	TO (c) -. E	(ort C T M
(c) t HDli H CRt eN	5000		59	K N V W N	20	G	TO (c) -DE	/ I C t . i C 1 C t eup

( h l H D i n i , r l o e / u K K t a y r o i H e o n l e , Q r i a r l o , h i K l , t Q i H a i H u æ s

SuæfleH1t G l i e , i L L 1

# Detection Summary

1 0 en 1 t a eodle,  
c a d P , r j / l r i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 0 3 0

Job ID: 570-76954-2

## Client Sample ID: S-5-I3 (Continued)

## Lab Sample ID: 570-72859-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t Hx orpa8 ICRT eN	6000		59	K N J W N	20	G	TO (c) -DE	/ I C t . i C 1 C t eup

## Client Sample ID: S-7.5-I3

## Lab Sample ID: 570-72859-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t H b O e i m 3-1 2 Ag	0 s A 0		0 s 6 2	K N J W N	2	G	TO (c) -. E	(ort C T M
(c) t HDli H CRT eN	220		5 s 4	K N J W N	2	G	TO (c) -DE	/ I C t . i C 1 C t eup
(c) t Hx orpa8 ICRT eN	0 A		5 s 4	K N J W N	2	G	TO (c) -DE	/ I C t . i C 1 C t eup

## Client Sample ID: S-10-I3

## Lab Sample ID: 570-72859-24

To Di n i , r l o e H s

## Client Sample ID: S-2.5-H2

## Lab Sample ID: 570-72859-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t H b O e i m 3-1 2 Ag	7 0		26	K N J W N	50	G	TO (c) -. E	(ort C T M
(c) t HDli H CRT eN	6600		59	K N J W N	20	G	TO (c) -DE	/ I C t . i C 1 C t eup
(c) t Hx orpa8 ICRT eN	790		59	K N J W N	20	G	TO (c) -DE	/ I C t . i C 1 C t eup

## Client Sample ID: S-5-H2

## Lab Sample ID: 570-72859-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t H b O e i m 3-1 2 Ag	670		6 0	K N J W N	200	G	TO (c) -. E	(ort C T M
(c) t HDli H CRT eN	2700		69	K N J W N	5	G	TO (c) -DE	/ I C t . i C 1 C t eup
(c) t Hx orpa8 ICRT eN	0 9 0		69	K N J W N	5	G	TO (c) -DE	/ I C t . i C 1 C t eup

## Client Sample ID: S-7.5-H2

## Lab Sample ID: 570-72859-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t H. t H b O e i m 3-1 2 Ag	970		650	K N J W N	2000	G	TO (c) -. E	(ort C T M
(c) t HDli H CRT eN	0 6 0 0		64	K N J W N	5	G	TO (c) -DE	/ I C t . i C 1 C t eup
(c) t Hx orpa8 ICRT eN	460		64	K N J W N	5	G	TO (c) -DE	/ I C t . i C 1 C t eup

## Client Sample ID: S-10-H2

## Lab Sample ID: 570-72859-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
(c) t Hx orpa8 ICRT eN	270		74	K N J W N	5	G	TO (c) -DE	/ I C t . i C 1 C t eup

( h l H D i n i , r l o e / u K K t a y r o i H e o n l e , Q r i a r l o , h i K l , t Q i H a H u O s

Su a f l e H 1 t G l i e , i L L 1

# Client Sample Results

10 en 1 t a eodle,  
c a P, rj/ lri : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 . 0 3 0

Job ID: 570-76954-2

**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
m c g t K D l i K i C j t e N	HD		2 s 4	R N J G N	(	20j25j62 2A:00	20j2. j62 2. :6.	2
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
m c g t K D l i K i C j t e N	HD		A 3	R N J G N	(	20j66j62 26:30	20j66j62 29:09	2
m c g t K x o r b a u l C j t e N	HD		A 3	R N J G N	(	20j66j62 26:30	20j66j62 29:09	2
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 s 6 0	R N J G N	(	20j25j62 2A:00	20j2. j62 2. :50	2
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		64	R N J G N	(	20j66j62 26:30	20j66j62 29:69	5
TPH as Motor Oil Range	650		64	R N J G N	(	20j66j62 26:30	20j66j62 29:69	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 s 6 6	R N J G N	(	20j25j62 2A:00	20j2. j62 29:00	2
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		59	R N J G N	(	20j66j62 26:30	20j66j62 29:37	20
TPH as Motor Oil Range	3400		59	R N J G N	(	20j66j62 26:30	20j66j62 29:37	20
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

Sf a l l e K 1 t & l i e, i O O 1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, r j / l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 . 0 3 0

Job ID: 570-76954-2

**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	RN/GN	(	20j25j62 2A:00	20j24j62 02:07	650
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		5.	RN/GN	(	20j66j62 26:30	20j66j62 24:07	20
TPH as Motor Oil Range	2200		5.	RN/GN	(	20j66j62 26:30	20j66j62 24:07	20
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		93	RN/GN	(	20j25j62 2A:00	20j24j62 02:A0	650
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		5.	RN/GN	(	20j66j62 26:30	20j66j62 24:67	20
TPH as Motor Oil Range	1500		5.	RN/GN	(	20j66j62 26:30	20j66j62 24:67	20
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		052	RN/GN	(	20j25j62 2A:00	20j24j62 29:29	2
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		25	RN/GN	(	20j66j62 26:30	20j66j62 24:37	2
TPH as Motor Oil Range	74		25	RN/GN	(	20j66j62 26:30	20j66j62 24:37	2
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

10 en 1 t a eodle,  
c a d P, r j / l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 . 0 3 0

Job ID: 570-76954-2

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	380		63	RN/GN	(	20j25j62 2A:00	20j29j62 62:A5	200
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		. A	RN/GN	(	20j66j62 26:30	20j66j62 60:0.	20
TPH as Motor Oil Range	1400		. A	RN/GN	(	20j66j62 26:30	20j66j62 60:0.	20
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

Lab Sample ID: 570-72859-8

Date Collected: 10/13/21 11:45

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)	5.0		0.56	RN/GN	(	20j25j62 2A:00	20j29j62 2A:6A	2
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		5.3	RN/GN	(	20j66j62 26:30	20j66j62 60:6.	2
TPH as Motor Oil Range	23		5.3	RN/GN	(	20j66j62 26:30	20j66j62 60:6.	2
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

Lab Sample ID: 570-72859-9

Date Collected: 10/13/21 11:50

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)	280		220	RN/GN	(	20j25j62 2A:00	20j24j62 02:53	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		20	RN/GN	(	20j66j62 26:30	20j66j62 60:3.	2
TPH as Motor Oil Range	160		20	RN/GN	(	20j66j62 26:30	20j66j62 60:3.	2
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

Sf a d l e K 1 t & l i e, i O O 1

# Client Sample Results

10 en 1 t a eodle,  
c a d P, rj/ lri : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 . 0 3 0

Job ID: 570-76954-2

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	99		. 57	R N J GN	(	20j25j62 2A:00	20j29j62 60:02	60
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 s 3	R N J GN	(	20j66j62 26:30	20j66j62 62:0.	2
TPH as Motor Oil Range	68		7 s 3	R N J GN	(	20j66j62 26:30	20j66j62 62:0.	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		50 - 150			10/22/21 12:40	10/22/21 21:06	1

Client Sample ID: S-15-I7

Lab Sample ID: 570-72859-11

Date Collected: 10/13/21 12:00

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
m c g t K i t K o b i 8 l 3 - 1 2 A T	HD		2 s A	R N J GN	(	20j25j62 2A:00	20j29j62 2A:37	2
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
m c g t K D l i K i Q t e N	HD		A 9	R N J GN	(	20j66j62 26:30	20j66j62 66:0.	2
TPH as Motor Oil Range	100		A 9	R N J GN	(	20j66j62 26:30	20j66j62 66:0.	2
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

Lab Sample ID: 570-72859-12

Date Collected: 10/13/21 12:05

Matrix: Solid

Date Received: 10/14/21 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	330		22	R N J GN	(	20j25j62 2A:00	20j29j62 60:65	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		59	R N J GN	(	20j66j62 26:30	20j66j62 66:65	20
TPH as Motor Oil Range	1600		59	R N J GN	(	20j66j62 26:30	20j66j62 66:65	20
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

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# Client Sample Results

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c a d P, r j / l i : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 . 0 3 0

Job ID: 570-76954-2

Client Sample ID: S-5-I5

Lab Sample ID: 570-72859-13

Date Collected: 10/13/21 12:10

Matrix: Solid

Date Received: 10/14/21 10:00

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	98		27	RN/GN	(	20j25j62 2A:00	20j6. j62 00:6A	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		. 0	RN/GN	(	20j66j62 26:30	20j66j62 66:35	20
TPH as Motor Oil Range	370		. 0	RN/GN	(	20j66j62 26:30	20j66j62 66:35	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	114		50 - 150			10/22/21 12:40	10/22/21 22:45	10

Client Sample ID: S-7.5-I5

Lab Sample ID: 570-72859-14

Date Collected: 10/13/21 12:15

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)	980		260	RN/GN	(	20j25j62 2A:00	20j24j62 06:27	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		5.	RN/GN	(	20j66j62 26:30	20j66j62 6A:05	20
TPH as Motor Oil Range	970		5.	RN/GN	(	20j66j62 26:30	20j66j62 6A:05	20
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

Lab Sample ID: 570-72859-15

Date Collected: 10/13/21 12:20

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)	870		A50	RN/GN	(	20j25j62 2A:00	20j24j62 06:30	2000
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		260	RN/GN	(	20j66j62 26:30	20j66j62 6A:65	5
m c g t K x o r b a u l Q t e N	HD		260	RN/GN	(	20j66j62 26:30	20j66j62 6A:65	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

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# Client Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEæex oblQMD1j0A2337. 030

Job ID: 570-76954-2

**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		0.59	RN/GN	(	20j25j62 2A:00	20j29j62 23:54	2
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		2A	RN/GN	(	20j66j62 26:30	20j66j62 6A:35	2
TPH as Motor Oil Range	45		2A	RN/GN	(	20j66j62 26:30	20j66j62 6A:35	2
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		0.30	RN/GN	(	20j25j62 2A:00	20j29j62 25:6A	2
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		23	RN/GN	(	20j66j62 26:30	20j6A62 00:05	2
TPH as Motor Oil Range	55		23	RN/GN	(	20j66j62 26:30	20j6A62 00:05	2
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		5.3	RN/GN	(	20j25j62 2A:00	20j29j62 2. :A5	60
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		69	RN/GN	(	20j66j62 26:30	20j6A62 00:65	5
TPH as Motor Oil Range	320		69	RN/GN	(	20j66j62 26:30	20j6A62 00:65	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

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cæP, rj/ lri : SEæex oblQMD1j0A2337. 030

Job ID: 570-76954-2

**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		0.6A	RN/GN	(	20j25j62 2A:00	20j29j62 23:A5	2
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		5s	RN/GN	(	20j66j62 26:30	20j6Aj62 00:35	2
m: g t K x orbau lQ) t eN	HD		5s	RN/GN	(	20j66j62 26:30	20j6Aj62 00:35	2
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		0.65	RN/GN	(	20j25j62 2A:00	20j29j62 25:37	2
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		220	RN/GN	(	20j66j62 26:30	20j6Aj62 02:03	60
TPH as Motor Oil Range	670		220	RN/GN	(	20j66j62 26:30	20j6Aj62 02:03	60
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
m: g t K x t Koæi 8l 3-1 2AT	HD		200	f NO	-		20j24j62 6A:02	2
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		26	RN/GN	(	20j25j62 2A:00	20j29j62 60:39	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

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c a d P, rj/ lri : S E E o e x o b l C M D 1 j 0 A 2 3 3 7 . 0 3 0

Job ID: 570-76954-2

**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		59	R N J GN	(	20j62j62 62:A2	20j66j62 6A:35	20
TPH as Motor Oil Range	2000		59	R N J GN	(	20j62j62 62:A2	20j66j62 6A:35	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-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		0.62	R N J GN	(	20j25j62 2A:00	20j29j62 2. :22	2
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		5.4	R N J GN	(	20j62j62 62:A2	20j6A j 62 00:0.	2
TPH as Motor Oil Range	63		5.4	R N J GN	(	20j62j62 62:A2	20j6A j 62 00:0.	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	106		50 - 150			10/21/21 21:31	10/23/21 00:06	1

**Client Sample ID: S-10-I3**

**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
m c g t K i t K o b i 8 l 3-1 2AT	HD		0.60	R N J GN	(	20j25j62 2A:06	20j29j62 26:54	2
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
m c g t K D l i K i Q t e N	HD		5.9	R N J GN	(	20j62j62 62:A2	20j6A j 62 00:67	2
m c g t K x o r b a u l Q t e N	HD		5.9	R N J GN	(	20j62j62 62:A2	20j6A j 62 00:67	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	107		50 - 150			10/21/21 21:31	10/23/21 00:27	1

**Client Sample ID: S-2.5-H2**

**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		26	R N J GN	(	20j25j62 2A:00	20j29j62 62:26	50

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# Client Sample Results

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cæP, rj/ lri : SEEex oblQMD1j0A2337. 030

Job ID: 570-76954-2

**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		59	R\N\GN	(	20j62j62 62:A2	20j6Aj62 00:37	20
TPH as Motor Oil Range	780		59	R\N\GN	(	20j62j62 62:A2	20j6Aj62 00:37	20
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		6.	RN/GN	(	20j25j62 2A:00	20j29j62 62:54	200
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		69	RN/GN	(	20j62j62 62:A2	20j6Aj62 02:09	5
TPH as Motor Oil Range	680		69	RN/GN	(	20j62j62 62:A2	20j6Aj62 02:09	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		650	RN/GN	(	20j25j62 2A:00	20j24j62 0A:03	2000
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		64	RN/GN	(	20j62j62 62:A2	20j6Aj62 02:64	5
TPH as Motor Oil Range	920		64	RN/GN	(	20j62j62 62:A2	20j6Aj62 02:64	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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Job ID: 570-76954-2

**Lab Sample ID: 570-72859-28**

**Matrix: Solid**

**Matrix: Solid**

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
4-Bromofluorobenzene (Surr)	97		50 - 150	10/15/21 13:02	10/18/21 14:11	1

TPH as Motor Oil Range	170	74	R N GN	( 20j62j62 62:A2 20j6Aj62 02:50	5
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<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
<i>n</i> -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/041227. 020

Job ID: 570-76953-1

**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)
570-76953-1	S-15-I9A	53
570-76953-6	S-685-H.	57
570-76953-4	S-5-H.	. 1
570-76953-2	S-785-H.	93
570-76953-5	S-10-H.	99
570-76953-	S-1685-H.	27 S1-
570-76953-7	S-485-I7	76
570-76953-9	S-5-I7	94
570-76953-3	S-10-I7	99
570-76953-10	S-1685-I7	169
570-76953-11	S-15-I7	37
570-76953-16	S-685-I5	31
570-76953-14	S-5-I5	34
570-76953-12	S-785-I5	31
570-76953-15	S-10-I5	90
570-76953-1.	S-1685-I5	30
570-76953-17	S-1685-I5-DUP	31
570-76953-19	S-5-H2	74
570-76953-13	S-785-H2	160
570-76953-60	S-685-I4	92
570-76953-66	S-5-I4	. 3
570-76953-64	S-785-I4	10.
570-76953-62	S-10-I4	109
570-76953-65	S-685-H6	76
570-76953-6.	S-5-H6	72
570-76953-67	S-785-H6	79
570-76953-69	S-10-H6	37
LCS 570-197064/4	Lab Control Sample	31
LCS 570-19713. /4	Lab Control Sample	103
LCS 570-197606/4	Lab Control Sample	36
LCS 570-197454/41	Lab Control Sample	93
LCS 570-197511/.	Lab Control Sample	100
LCS 570-193073/4	Lab Control Sample	160
LCSD 570-197064/2	Lab Control Sample Dup	39
LCSD 570-19713. /2	Lab Control Sample Dup	111
LCSD 570-197606/2	Lab Control Sample Dup	37
LCSD 570-197454/46	Lab Control Sample Dup	97
LCSD 570-197511/7	Lab Control Sample Dup	102
LCSD 570-193073/2	Lab Control Sample Dup	164
MB 570-197064/5	Method Blank	76
MB 570-19713. /5	Method Blank	104
MB 570-19713. /.	Method Blank	3.
MB 570-197606/.	Method Blank	7.
MB 570-197454/42	Method Blank	90
MB 570-197511/10	Method Blank	96
MB 570-193073/.	Method Blank	32

## Surrogate Legend

Bf B s 2-Bromo fluoroben=ene zSurr(

# Surrogate Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/041227. 020

Job ID: 570-76953-1

## 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)
570-76953-61	Orip Blank	57
570-763. 3-D-4 MS	Matrix Spike	93
570-763. 3-D-4 MSD	Matrix Spike Duplicate	31
LCS 570-197. . 6/4	Lab Control Sample	31
LCSD 570-197. . 6/2	Lab Control Sample Dup	97
MB 570-197. . 6/5	Method Blank	5.

### Surrogate Legend

Bf B s 2-Bromo fluoroben=ene zSurr(

## 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)
570-76953-1	S-15-I9A	31
570-76953-6	S-68-H.	32
570-76953-4	S-5-H.	103
570-76953-2	S-78-H.	106
570-76953-5	S-10-H.	104
570-76953-.	S-168-H.	36
570-76953-7	S-48-I7	39
570-76953-9	S-5-I7	37
570-76953-9 MS	S-5-I7	93
570-76953-9 MS	S-5-I7	99
570-76953-9 MSD	S-5-I7	. 3
570-76953-9 MSD	S-5-I7	34
570-76953-3	S-10-I7	35
570-76953-10	S-168-I7	35
570-76953-11	S-15-I7	110
570-76953-16	S-68-I5	100
570-76953-14	S-5-I5	112
570-76953-12	S-78-I5	39
570-76953-15	S-10-I5	35
570-76953-1.	S-168-I5	37
570-76953-17	S-168-I5-DUP	102
570-76953-19	S-5-H2	34
570-76953-13	S-78-H2	34
570-76953-60	S-68-I4	93
570-76953-66	S-5-I4	163
570-76953-66 MS	S-5-I4	10.
570-76953-66 MS	S-5-I4	102
570-76953-66 MSD	S-5-I4	112
570-76953-66 MSD	S-5-I4	112
570-76953-64	S-78-I4	10.
570-76953-62	S-10-I4	107
570-76953-65	S-68-H6	114
570-76953-6.	S-5-H6	102
570-76953-67	S-78-H6	112
570-76953-69	S-10-H6	109

Eurofin Cal)science LLC

# Surrogate Summary

Client: Cardno, Inc

Job ID: 570-76953-1

Project/Site: ExxonMobil ADC/041227. 020

**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 570-199475/6-A	Lab Control Sample	106
LCS 570-199475/. -A	Lab Control Sample	106
LCS 570-199597/6-A	Lab Control Sample	35
LCS 570-199597/. -A	Lab Control Sample	34
LCSD 570-199475/4-A	Lab Control Sample Dup	33
LCSD 570-199475/7-A	Lab Control Sample Dup	104
LCSD 570-199597/4-A	Lab Control Sample Dup	36
LCSD 570-199597/7-A	Lab Control Sample Dup	32
MB 570-199475/1-A	Method Blank	104
MB 570-199597/1-A	Method Blank	32

### Surrogate Legend

OTCSN s n-T ctaco) ane zSurr(

# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1j0A2337T030

Job ID: 570-76954-2

## 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
Hcs t G( t Gæi )13-12AN	. D		0r65	g Kj8K			20j2Tj62 26:30	2
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01				/ 17 25 / 5:41	/

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
Hcs t G( t Gæi )13-12AN	6r8A	6r8AT		g Kj8K		200	77 - 269
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	3/		01 - / 01				

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
Hcs t G( t Gæi )13-12AN	6r8A	6r852		g Kj8K		202	77 - 269	2	2T
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	36		01 - / 01						

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
Hcs t G( t Gæi )13-12AN	. D		0r65	g Kj8K			20j29j62 26:07	2
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ 19		01 - / 01				/ 17 65 / 5:18	/

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
Hcs t G( t Gæi )13-12AN	. D		5r6	g Kj8K			20j29j62 26:A2	60
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	32		01 - / 01				/ 17 65 / 5:9/	51

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# QC Sample Results

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cæP, rj/ lri : SEEex oblCMD1j0A2337T030

Job ID: 570-76954-2

## 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
Hcs t G( t Gæi )13-12AN	6ræ6	6ræT9		g Kj8K		207	77 - 269
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	/ 13		01 - / 01				

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
Hcs t G( t Gæi )13-12AN	6ræ6	6ræA39		g Kj8K		222	77 - 269	A	2T
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	///		01 - / 01						

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
Hcs t G( t Gæi )13-12AN	. D		5ræ	g Kj8K			20j29j62 2A:05	60
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	82		01 - / 01		/ 17 67/ / 9:10	51		

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
Hcs t G( t Gæi )13-12AN	6ræ6	2ræT6		g Kj8K		99	77 - 269
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	35		01 - / 01				

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
Hcs t G( t Gæi )13-12AN	6ræ6	2ræ64		g Kj8K		9T	77 - 269	6	2T
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	38		01 - / 01						

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# QC Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex oblCMD1j0A2337T030

Job ID: 570-76954-2

## 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
Hcs t G( t Gæi )13-12AN	. D		5rð	g Kj8K			20j24j62 00:3A	60
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61		01 - / 01				/ 17 35/ 11:49	51

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
Hcs t G( t Gæi )13-12AN	6rðA	2rð47		g Kj8K		90	77 - 269
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	63		01 - / 01				

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
Hcs t G( t Gæi )13-12AN	6rðA	2rð24		g Kj8K		95	77 - 269	7	2T
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	68		01 - / 01						

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
Hcs t G( t Gæi )13-12AN	. D		0rð5	g Kj8K			20j24j62 23:30	2
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		01 - / 01				/ 17 35/ 4:41	/

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
Hcs t G( t Gæi )13-12AN	6rð6	6rð0A		g Kj8K		44	77 - 269
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	/ 11		01 - / 01				

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# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1j0A2337T030

Job ID: 570-76954-2

## 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
Hcs t G( t Gæi )13-12AN	6ræ6	6ræ30		g Kj8K		202	77 - 269	6	2T
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 14		01 - / 01						

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
Hcs t G( t Gæi )13-12AN	. D		200	uKjL			20j24j62 29:56	2
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	02		01 - / 01				/ 17 37/ / 6:05	/

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	
Hcs t G( t Gæi )13-12AN	62A0	6044		uKjL		44	7T - 269	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	3/		01 - / 01					

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
Hcs t G( t Gæi )13-12AN	62A0	6222		uKjL		44	7T - 269	2	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	68		01 - / 01						

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	
Hcs t G( t Gæi )13-12AN	. D		62A0	6070		uKjL		47	T4 - 2A6	
Surrogate	%Recovery	MS Qualifier	Limits							
4-Bromofluorobenzene (Surr)	63		01 - / 01							

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# QC Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex oblCMD1j0A2337T030

Job ID: 570-76954-2

## 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
Hcs t G( t Gæi )13-12AN	. D		62A0	6260		uKjL		200	T4 - 2A6	6	25
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	3/		01 - / 01								

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
Hcs t G( t Gæi )13-12AN	. D		5rð	g Kj8K			20j65j62 23:53	60
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	34		01 - / 01				/ 175075/ / 4:04	51

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
Hcs t G( t Gæi )13-12AN	6rðA	6rð93		g Kj8K		206	77 - 269
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	/ 51		01 - / 01				

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
Hcs t G( t Gæi )13-12AN	6rðA	6rð2T		g Kj8K		203	77 - 269	2	2T
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 59		01 - / 01						

## 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
Hcs t GDli G CRt eKi	. D		5rð	g Kj8K		20j62j62 62:A2	20j66j62 24:27	2
Hcs t Gx orpaOICRt eKi	. D		5rð	g Kj8K		20j62j62 62:A2	20j66j62 24:27	2
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 19		01 - / 01			/ 175/ 75/ 5/ :9/	/ 1755/ 75/ / 3/ :8	/

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# QC Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex oblQMD1j0A2337T030

Job ID: 570-76954-2

## 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		
Hcs t GDli G Q120-169N			300	36Tr4		g KJ8K		207	7T - 26T		
Surrogate	LCS										
n-Octacosane (Surr)	%Recovery	LCS Qualifier	Limits								
	/ 15		01 - / 01								

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

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Hcs t Gx orbaOIQ127-133N			300	309rð		g KJ8K		206	72 - 2A4		
			LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	/ 15		01 - / 01								

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

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Hcs t GDli G Q120-169N			300	32Arð		g KJ8K		20A	7T - 26T	A	60
Surrogate	%Recovery	LCSD									
n-Octacosane (Surr)	33	Qualifier	Limits								
			01 - / 01								

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

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Hcs t Gx orbaOIQ127-133N			300	360rð		g KJ8K		205	72 - 2A4	A	60
Surrogate	%Recovery	LCSD									
n-Octacosane (Surr)	/ 19	Qualifier	Limits								
			01 - / 01								

Lab Sample ID: 570-72859-22 MS  
Matrix: Solid  
Analysis Batch: 188558

Client Sample ID: S-5-I3  
Prep Type: Silica Gel Cleanup  
Prep Batch: 188375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Hcs t GDli G Q120-169N	5500		359	5T00	3	g KJ8K	☼	60	A7 - 275		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	/ 12		01 - / 01								

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# QC Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex oblQMD1j0A2337T030

Job ID: 570-76954-2

## 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-I3

Prep Type: Silica Gel Cleanup

Prep Batch: 188375

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hcs t Gx orpaOIQ127-133N	3300		3A4	3A59	3	g Kj8K	✱	-A	72 - 273
Surrogate	%Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	/ 14		01 - / 01						

Lab Sample ID: 570-72859-22 MSD

Matrix: Solid

Analysis Batch: 188558

Client Sample ID: S-5-I3

Prep Type: Silica Gel Cleanup

Prep Batch: 188375

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hcs t GDli G Q120-169N	5500		33A	5T39	3	g Kj8K	✱	A2	A7 - 275	2	60
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	// 4		01 - / 01								

Lab Sample ID: 570-72859-22 MSD

Matrix: Solid

Analysis Batch: 188558

Client Sample ID: S-5-I3

Prep Type: Silica Gel Cleanup

Prep Batch: 188375

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hcs t Gx orpaOIQ127-133N	3300		3TA	565A	3	g Kj8K	✱	240	72 - 273	24	60
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	// 4		01 - / 01								

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 Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hcs t GDli G CRT eKi	. D		5r0	g Kj8K		20j66j62 26:30	20j66j62 25:26	2
Hcs t Gx orpaOICRT eKi	. D		5r0	g Kj8K		20j66j62 26:30	20j66j62 25:26	2
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	34		01 - / 01			/ 1155 / 5:41	/ 1155 / 0:5	/

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 Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hcs t GDli G Q120-169N	300	300r0		g Kj8K		200	7T - 26T
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	30		01 - / 01				

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# QC Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex oblQMD1j0A2337T030

Job ID: 570-76954-2

## 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		
Hc s t Gx orbaOIQ127-133N			300	303rð		g KJ8K		202	72 - 2A4		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
n-Octacosane (Surr)		39		01 - / 01							

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

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Hcs t GDli G Q120-169N			300	A4Ar4		g KJ8K		49	7T - 26T	6	60
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	35		01 - / 01								

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

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Hcs t Gx orbaOIQ127-133N			300	A40rð		g KJ8K		49	72 - 2A4	3	60
Surrogate	%Recovery	LCSD									
n-Octacosane (Surr)	34	Qualifier	Limits								
			01 - / 01								

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		
Hcs t GDli G Q120-169N	T0	F6	370	34Trð		g KJ8K	☼	4A	A7 - 275		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	63		01 - / 01								

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		
Hcs t Gx orbaOIQ127-133N	56	F6	3A3	T46rð		g KJ8K	☼	237	72 - 273		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	66		01 - / 01								

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# QC Sample Results

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cæP, rj/ lri : SEEex oblQMD1j0A2337T030

Job ID: 570-76954-2

## 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hcs t GDli G Q120-169N	T0	F6	3AT	6T3r6	F6	g KJ8K	✱	37	A7 - 275	T2	60
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
n-Octacosane (Surr)	23		01 - / 01								

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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hcs t Gx oraOIQ127-133N	56	F6	353	3T0r6	F6	g KJ8K	✱	40	72 - 273	30	60
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
n-Octacosane (Surr)	39		01 - / 01								

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/041227. 020

Job ID: 570-76953-1

## GC VOA

### Prep Batch: 186862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-1	S-15-19A	Hbtal/T A	Solid	5045	
570-76953-6	S-6 <del>NS</del> -8.	Hbtal/T A	Solid	5045	
570-76953-4	S-5-8.	Hbtal/T A	Solid	5045	
570-76953-.	S-16 <del>NS</del> -8.	Hbtal/T A	Solid	5045	
570-76953-9	S-5-17	Hbtal/T A	Solid	5045	
570-76953-11	S-15-17	Hbtal/T A	Solid	5045	
570-76953-1.	S-16 <del>NS</del> -15	Hbtal/T A	Solid	5045	
570-76953-17	S-16 <del>NS</del> -15-DUP	Hbtal/T A	Solid	5045	
570-76953-13	S-7 <del>NS</del> -8 2	Hbtal/T A	Solid	5045	
570-76953-60	S-6 <del>NS</del> -14	Hbtal/T A	Solid	5045	
570-76953-64	S-7 <del>NS</del> -14	Hbtal/T A	Solid	5045	
570-76953-62	S-10-14	Hbtal/T A	Solid	5045	
570-76953-69	S-10-8 6	Hbtal/T A	Solid	5045	

### Prep Batch: 186863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-2	S-7 <del>NS</del> -8.	Hbtal/T A	Solid	5045	
570-76953-5	S-10-8.	Hbtal/T A	Solid	5045	
570-76953-7	S-4 <del>NS</del> -17	Hbtal/T A	Solid	5045	
570-76953-3	S-10-17	Hbtal/T A	Solid	5045	
570-76953-10	S-16 <del>NS</del> -17	Hbtal/T A	Solid	5045	
570-76953-16	S-6 <del>NS</del> -15	Hbtal/T A	Solid	5045	
570-76953-14	S-5-15	Hbtal/T A	Solid	5045	
570-76953-12	S-7 <del>NS</del> -15	Hbtal/T A	Solid	5045	
570-76953-15	S-10-15	Hbtal/T A	Solid	5045	
570-76953-19	S-5-8 2	Hbtal/T A	Solid	5045	
570-76953-66	S-5-14	Hbtal/T A	Solid	5045	
570-76953-65	S-6 <del>NS</del> -8 6	Hbtal/T A	Solid	5045	
570-76953-6.	S-5-8 6	Hbtal/T A	Solid	5045	
570-76953-67	S-7 <del>NS</del> -8 6	Hbtal/T A	Solid	5045	

### Analysis Batch: 187023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-1	S-15-19A	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6
570-76953-6	S-6 <del>NS</del> -8.	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6
570-76953-4	S-5-8.	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6
MB 570-197064/5	Method Blank	Hbtal/T A	Solid	T WHP8 -Gx	
LCS 570-197064/4	Lab Control Sample	Hbtal/T A	Solid	T WHP8 -Gx	
LCSD 570-197064/2	Lab Control Sample Dup	Hbtal/T A	Solid	T WHP8 -Gx	

### Analysis Batch: 187196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-9	S-5-17	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6
570-76953-11	S-15-17	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6
570-76953-1.	S-16 <del>NS</del> -15	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6
570-76953-17	S-16 <del>NS</del> -15-DUP	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6
570-76953-19	S-5-8 2	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 4
570-76953-13	S-7 <del>NS</del> -8 2	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6
570-76953-60	S-6 <del>NS</del> -14	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6
570-76953-64	S-7 <del>NS</del> -14	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6
570-76953-62	S-10-14	Hbtal/T A	Solid	T WHP8 -Gx	19. 9. 6

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/041227. 020

Job ID: 570-76953-1

## GC VOA (Continued)

### Analysis Batch: 187196 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-69	S-10-86	Hbtal/T A	Solid	TWHP8-Gx	19.9.6
MB 570-19713. /5	Method Blank	Hbtal/T A	Solid	TWHP8-Gx	
MB 570-19713. /.	Method Blank	Hbtal/T A	Solid	TWHP8-Gx	
LCS 570-19713. /4	Lab Control Sample	Hbtal/T A	Solid	TWHP8-Gx	
LCSD 570-19713. /2	Lab Control Sample Dup	Hbtal/T A	Solid	TWHP8-Gx	

### Analysis Batch: 187202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-7	S-415-17	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
570-76953-10	S-1615-17	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
570-76953-16	S-615-15	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
570-76953-66	S-5-14	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
570-76953-65	S-615-86	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
570-76953-6.	S-5-86	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
MB 570-197606/.	Method Blank	Hbtal/T A	Solid	TWHP8-Gx	
LCS 570-197606/4	Lab Control Sample	Hbtal/T A	Solid	TWHP8-Gx	
LCSD 570-197606/2	Lab Control Sample Dup	Hbtal/T A	Solid	TWHP8-Gx	

### Analysis Batch: 187353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-2	S-715-8.	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
570-76953-5	S-10-8.	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
570-76953-3	S-10-17	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
570-76953-12	S-715-15	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
570-76953-15	S-10-15	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
570-76953-67	S-715-86	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
MB 570-197454/42	Method Blank	Hbtal/T A	Solid	TWHP8-Gx	
LCS 570-197454/41	Lab Control Sample	Hbtal/T A	Solid	TWHP8-Gx	
LCSD 570-197454/46	Lab Control Sample Dup	Hbtal/T A	Solid	TWHP8-Gx	

### Analysis Batch: 187511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-.	S-1615-8.	Hbtal/T A	Solid	TWHP8-Gx	19.9.6
MB 570-197511/10	Method Blank	Hbtal/T A	Solid	TWHP8-Gx	
LCS 570-197511/.	Lab Control Sample	Hbtal/T A	Solid	TWHP8-Gx	
LCSD 570-197511/7	Lab Control Sample Dup	Hbtal/T A	Solid	TWHP8-Gx	

### Analysis Batch: 187662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-61	Hip Blank	Hbtal/T A	Water	TWHP8-Gx	
MB 570-197. . 6/5	Method Blank	Hbtal/T A	Water	TWHP8-Gx	
LCS 570-197. . 6/4	Lab Control Sample	Hbtal/T A	Water	TWHP8-Gx	
LCSD 570-197. . 6/2	Lab Control Sample Dup	Hbtal/T A	Water	TWHP8-Gx	
570-763. 3-D-4 MS	Matrix Spike	Hbtal/T A	Water	TWHP8-Gx	
570-763. 3-D-4 MSD	Matrix Spike Duplicate	Hbtal/T A	Water	TWHP8-Gx	

### Analysis Batch: 189079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-14	S-5-15	Hbtal/T A	Solid	TWHP8-Gx	19.9.4
MB 570-193073/.	Method Blank	Hbtal/T A	Solid	TWHP8-Gx	
LCS 570-193073/4	Lab Control Sample	Hbtal/T A	Solid	TWHP8-Gx	

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/041227. 020

Job ID: 570-76953-1

## GC VOA (Continued)

### Analysis Batch: 189079 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-193073/2	Lab Control Sample Dup	Htatl/TA	Solid	TWHP8 -Gx	

## GC Semi VOA

### Prep Batch: 188375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-66	S-5-I4	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-64	S-715-I4	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-62	S-10-I4	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-65	S-615-8 6	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-6.	S-5-8 6	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-67	S-715-8 6	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-69	S-10-8 6	Silica Gel Cleanup	Solid	4550C SGC	
MB 570-199475/1-A	Method Blank	Silica Gel Cleanup	Solid	4550C SGC	
LCS 570-199475/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	4550C SGC	
LCS 570-199475/. -A	Lab Control Sample	Silica Gel Cleanup	Solid	4550C SGC	
LCSD 570-199475/4-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	4550C SGC	
LCSD 570-199475/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-66 MS	S-5-I4	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-66 MS	S-5-I4	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-66 MSD	S-5-I4	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-66 MSD	S-5-I4	Silica Gel Cleanup	Solid	4550C SGC	

### Analysis Batch: 188558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-66	S-5-I4	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
570-76953-64	S-715-I4	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
570-76953-62	S-10-I4	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
570-76953-65	S-615-8 6	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
570-76953-6.	S-5-8 6	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
570-76953-67	S-715-8 6	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
570-76953-69	S-10-8 6	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
MB 570-199475/1-A	Method Blank	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
LCS 570-199475/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
LCS 570-199475/. -A	Lab Control Sample	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
LCSD 570-199475/4-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
LCSD 570-199475/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
570-76953-66 MS	S-5-I4	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
570-76953-66 MS	S-5-I4	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
570-76953-66 MSD	S-5-I4	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475
570-76953-66 MSD	S-5-I4	Silica Gel Cleanup	Solid	TWHP8 -Dx	199475

### Analysis Batch: 188570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-1	S-15-I9A	Silica Gel Cleanup	Solid	TWHP8 -Dx	199597
570-76953-6	S-615-8 .	Silica Gel Cleanup	Solid	TWHP8 -Dx	199597
570-76953-4	S-5-8 .	Silica Gel Cleanup	Solid	TWHP8 -Dx	199597
570-76953-2	S-715-8 .	Silica Gel Cleanup	Solid	TWHP8 -Dx	199597
570-76953-5	S-10-8 .	Silica Gel Cleanup	Solid	TWHP8 -Dx	199597
570-76953-.	S-1615-8 .	Silica Gel Cleanup	Solid	TWHP8 -Dx	199597
570-76953-7	S-415-I7	Silica Gel Cleanup	Solid	TWHP8 -Dx	199597

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/041227. 020

Job ID: 570-76953-1

## GC Semi VOA (Continued)

### Analysis Batch: 188570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-9	S-5-I7	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-3	S-10-I7	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-10	S-16-I7	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-11	S-15-I7	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-16	S-6-I5	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-14	S-5-I5	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-12	S-7-I5	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-15	S-10-I5	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-1.	S-16-I5	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-17	S-16-I5-DUP	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-19	S-5-8 2	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-13	S-7-I5-8 2	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-60	S-6-I5-I4	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
MB 570-199597/1-A	Method Blank	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
LCS 570-199597/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
LCS 570-199597/. -A	Lab Control Sample	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
LCSD 570-199597/4-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
LCSD 570-199597/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-9 MS	S-5-I7	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-9 MS	S-5-I7	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-9 MSD	S-5-I7	Silica Gel Cleanup	Solid	TWHP8-Dx	199597
570-76953-9 MSD	S-5-I7	Silica Gel Cleanup	Solid	TWHP8-Dx	199597

### Prep Batch: 188587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-1	S-15-I9A	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-6	S-6-I5-8 .	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-4	S-5-8 .	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-2	S-7-I5-8 .	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-5	S-10-8 .	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-.	S-16-I5-8 .	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-7	S-4-I5-I7	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-9	S-5-I7	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-3	S-10-I7	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-10	S-16-I5-I7	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-11	S-15-I7	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-16	S-6-I5-I5	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-14	S-5-I5	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-12	S-7-I5-I5	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-15	S-10-I5	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-1.	S-16-I5-I5	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-17	S-16-I5-I5-DUP	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-19	S-5-8 2	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-13	S-7-I5-8 2	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-60	S-6-I5-I4	Silica Gel Cleanup	Solid	4550C SGC	
MB 570-199597/1-A	Method Blank	Silica Gel Cleanup	Solid	4550C SGC	
LCS 570-199597/6-A	Lab Control Sample	Silica Gel Cleanup	Solid	4550C SGC	
LCS 570-199597/. -A	Lab Control Sample	Silica Gel Cleanup	Solid	4550C SGC	
LCSD 570-199597/4-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	4550C SGC	
LCSD 570-199597/7-A	Lab Control Sample Dup	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-9 MS	S-5-I7	Silica Gel Cleanup	Solid	4550C SGC	

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## QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/041227. 020

Job ID: 570-76953-1

### GC Semi VOA (Continued)

#### Prep Batch: 188587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76953-9 MS	S-5-I7	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-9 MSD	S-5-I7	Silica Gel Cleanup	Solid	4550C SGC	
570-76953-9 MSD	S-5-I7	Silica Gel Cleanup	Solid	4550C SGC	

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# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/031447p040

Job ID: 570-72658-1

**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
Nbtal/. A	PreY	5035			3878 g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	167023	10/1p/21 1p:2p	P1V	ECT 2
		Instrument ID: GC5p								
Silica Gel CleanuY	PreY	3550C SGC			751 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166570	10/22/21 16:06	A1W	ECT 1
		Instrument ID: GC50								

**Client Sample ID: S-2.5-H6**

**Lab Sample ID: 570-72859-2**

**Date Collected: 10/13/21 11:15**

**Matrix: Solid**

**Date Received: 10/14/21 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	PreY	5035			79p2 g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	167023	10/1p/21 1p:50	P1V	ECT 2
		Instrument ID: GC5p								
Silica Gel CleanuY	PreY	3550C SGC			1090 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		5			166570	10/22/21 16:26	A1W	ECT 1
		Instrument ID: GC50								

**Client Sample ID: S-5-H6**

**Lab Sample ID: 570-72859-3**

**Date Collected: 10/13/21 11:20**

**Matrix: Solid**

**Date Received: 10/14/21 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	PreY	5035			p52 g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	167023	10/1p/21 16:00	P1V	ECT 2
		Instrument ID: GC5p								
Silica Gel CleanuY	PreY	3550C SGC			851 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		10			166570	10/22/21 16:47	A1W	ECT 1
		Instrument ID: GC50								

**Client Sample ID: S-7.5-H6**

**Lab Sample ID: 570-72859-4**

**Date Collected: 10/13/21 11:25**

**Matrix: Solid**

**Date Received: 10/14/21 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	PreY	5035			p35 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		250	5 mT	5 mT	167353	10/18/21 01:07	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			1084 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		10			166570	10/22/21 18:07	A1W	ECT 1
		Instrument ID: GC50								

# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/031447p040

Job ID: 570-72658-1

**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
Nbtal/. A	PreY	5035			4974 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		250	5 mT	5 mT	167353	10/18/21 01:30	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			1097 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		10			166570	10/22/21 18:27	A1W	ECT 1
		Instrument ID: GC50								

**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
Nbtal/. A	PreY	5035			4945 g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	167511	10/18/21 16:16	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			p91 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166570	10/22/21 18:47	A1W	ECT 1
		Instrument ID: GC50								

**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
Nbtal/. A	PreY	5035			p912 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		100	5 mT	5 mT	167202	10/16/21 21:35	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			881 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		10			166570	10/22/21 20:0p	A1W	ECT 1
		Instrument ID: GC50								

**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
Nbtal/. A	PreY	5035			4987 g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	16718p	10/16/21 13:23	A8f E	ECT 2
		Instrument ID: GC53								
Silica Gel CleanuY	PreY	3550C SGC			1093 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166570	10/22/21 20:2p	A1W	ECT 1
		Instrument ID: GC50								

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# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/031447p040

Job ID: 570-72658-1

**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
Nbtal/. A	PreY	5035			79438 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		500	5 mT	5 mT	167353	10/18/21 01:54	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			p917 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166570	10/22/21 20:4p	A1W	ECT 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
Nbtal/. A	PreY	5035			5587 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		20	5 mT	5 mT	167202	10/16/21 20:01	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			1095 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166570	10/22/21 21:0p	A1W	ECT 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
Nbtal/. A	PreY	5035			3938 g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	16718p	10/16/21 13:47	A8f E	ECT 2
		Instrument ID: GC53								
Silica Gel CleanuY	PreY	3550C SGC			5910 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166570	10/22/21 22:0p	A1W	ECT 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
Nbtal/. A	PreY	5035			p957 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		50	5 mT	5 mT	167202	10/16/21 20:25	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			886 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		10			166570	10/22/21 22:25	A1W	ECT 1
		Instrument ID: GC50								

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# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/031447p040

Job ID: 570-72658-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	PreY	5035			38p6 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		50	5 mT	5 mT	168078	10/2p/21 00:23	P1V	ECT 2
		Instrument ID: GC1								
Silica Gel CleanuY	PreY	3550C SGC			8917 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		10			166570	10/22/21 22:45	A1W	ECT 1
		Instrument ID: GC50								

**Client Sample ID: S-7.5-I5**

**Date Collected: 10/13/21 12:15**

**Date Received: 10/14/21 10:00**

**Lab Sample ID: 570-72859-14**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	PreY	5035			p22 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		500	5 mT	5 mT	167353	10/18/21 02:17	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			10974 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		10			166570	10/22/21 23:05	A1W	ECT 1
		Instrument ID: GC50								

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	PreY	5035			5913 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1000	5 mT	5 mT	167353	10/18/21 02:40	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			3915 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		5			166570	10/22/21 23:25	A1W	ECT 1
		Instrument ID: GC50								

**Client Sample ID: S-12.5-I5**

**Date Collected: 10/13/21 12:25**

**Date Received: 10/14/21 10:00**

**Lab Sample ID: 570-72859-16**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	PreY	5035			4953 g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	16718p	10/16/21 14:58	A8f E	ECT 2
		Instrument ID: GC53								
Silica Gel CleanuY	PreY	3550C SGC			6974 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166570	10/22/21 23:45	A1W	ECT 1
		Instrument ID: GC50								

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# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/031447p040

Job ID: 570-72658-1

**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
Nbtal/. A	PreY	5035			5922 g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	16718p	10/16/21 15:23	A8f E	ECT 2
		Instrument ID: GC53								
Silica Gel CleanuY	PreY	3550C SGC			597 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166570	10/23/21 00:05	A1W	ECT 1
		Instrument ID: GC50								

**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
Nbtal/. A	PreY	5035			5981 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		20	5 mT	5 mT	16718p	10/16/21 1p:35	A8f E	ECT 2
		Instrument ID: GC53								
Silica Gel CleanuY	PreY	3550C SGC			1090 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		5			166570	10/23/21 00:25	A1W	ECT 1
		Instrument ID: GC50								

**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
Nbtal/. A	PreY	5035			p9pp g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	16718p	10/16/21 14:35	A8f E	ECT 2
		Instrument ID: GC53								
Silica Gel CleanuY	PreY	3550C SGC			1095 g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166570	10/23/21 00:45	A1W	ECT 1
		Instrument ID: GC50								

**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
Nbtal/. A	PreY	5035			5956 g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	16718p	10/16/21 15:47	A8f E	ECT 2
		Instrument ID: GC53								
Silica Gel CleanuY	PreY	3550C SGC			109p g	10 mT	166567	10/22/21 12:40	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		20			166570	10/23/21 01:04	A1W	ECT 1
		Instrument ID: GC50								



# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/031447p040

Job ID: 570-72658-1

## Client Sample ID: Trip Blank

Date Collected: 10/13/21 00:00

Date Received: 10/14/21 10:00

## Lab Sample ID: 570-72859-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	Analysis	. WNPH-Gx		1	5 mT	5 mT	167pp2	10/18/21 23:01	P1V	ECT 2
Instrument ID: GC25										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	PreY	5035			p9lp8 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		50	5 mT	5 mT	167202	10/16/21 20:46	P1V	ECT 2
Instrument ID: GC57										
Silica Gel CleanuY	PreY	3550C SGC			8976 g	10 mT	166375	10/21/21 21:31	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		10			166556	10/22/21 23:45	. 5Z3	ECT 1
Instrument ID: GC46										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	PreY	5035			p986 g	5 g	16p6p2	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	16718p	10/16/21 1p:11	A8f E	ECT 2
Instrument ID: GC53										
Silica Gel CleanuY	PreY	3550C SGC			897 g	10 mT	166375	10/21/21 21:31	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166556	10/23/21 00:0p	. 5Z3	ECT 1
Instrument ID: GC46										

## 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	PreY	5035			p8p7 g	5 g	16p6p2	10/15/21 13:02	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	16718p	10/16/21 12:58	A8f E	ECT 2
Instrument ID: GC53										
Silica Gel CleanuY	PreY	3550C SGC			895 g	10 mT	166375	10/21/21 21:31	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		1			166556	10/23/21 00:27	. 5Z3	ECT 1
Instrument ID: GC46										

# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/031447p040

Job ID: 570-72658-1

**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
Nbtal/. A	PreY	5035			p006 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		50	5 mT	5 mT	167202	10/16/21 21:12	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			1004 g	10 mT	166375	10/21/21 21:31	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		10			166556	10/23/21 00:47	. 5Z3	ECT 1
		Instrument ID: GC46								

**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
Nbtal/. A	PreY	5035			5965 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		100	5 mT	5 mT	167202	10/16/21 21:58	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			1008 g	10 mT	166375	10/21/21 21:31	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		5			166556	10/23/21 01:06	. 5Z3	ECT 1
		Instrument ID: GC46								

**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
Nbtal/. A	PreY	5035			p9152 g	5 mT	16p6p3	10/15/21 13:00	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1000	5 mT	5 mT	167353	10/18/21 03:04	P1V	ECT 2
		Instrument ID: GC57								
Silica Gel CleanuY	PreY	3550C SGC			1090 g	10 mT	166375	10/21/21 21:31	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		5			166556	10/23/21 01:28	. 5Z3	ECT 1
		Instrument ID: GC46								

**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
Nbtal/. A	PreY	5035			4978 g	5 g	16p6p2	10/15/21 13:02	ZLT3	ECT 2
Nbtal/. A	Analysis	. WNPH-Gx		1	5 g	5 mT	16718p	10/16/21 14:11	A8f E	ECT 2
		Instrument ID: GC53								
Silica Gel CleanuY	PreY	3550C SGC			p07 g	10 mT	166375	10/21/21 21:31	. 5Z3	ECT 1
Silica Gel CleanuY	Analysis	. WNPH-Dx		5			166556	10/23/21 01:50	. 5Z3	ECT 1
		Instrument ID: GC46								

## Laboratory References:

ECT 1 = EuroRns Calscience TTC Tincoln, 7440 Tincoln Way, Garden Grove, CA 82641, NET (714)685-5484

ECT 2 = EuroRns Calscience TTC TamYson, 7445 TamYson Ave, Garden Grove, CA 82641, NET (714)685-5484

EuroRns Calscience TTC

# 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
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## 6

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.

10	S-2.5-I3	S-2.5-I3	10/13/2021	1325
----	----------	----------	------------	------

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

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

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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Site Name  
Provide MRN  
Retail Project  
Major Project  
Project Name

**Everett Bulk Plant**

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**E for major projects**

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**ExxonMobil ADC / 0314476040**

DATE: 10/13/2021

PAGE 2 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> <b>robert.thompson@cardno.com</b>		GLOBAL ID # COELT LOG CODE:  PROJECT CONTACT: <b>Robert Thompson</b> SAMPLER(S): <b>Paul Prevou, Cameron Penner-Ash, John Considine</b>		P O 0314476040 Agreement# A2604415  LAB USE ONLY COOLER RECEIPT Temp: <span style="border: 1px solid black; padding: 2px;">  </span> °C																																																																																																																																																																																																																																																																																																																																																																																													
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SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input checked="" 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. 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		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">LAB USE ONLY</th> <th rowspan="2">SAMPLE ID</th> <th rowspan="2">Field Point Name</th> <th colspan="2">SAMPLING</th> <th rowspan="2">MAT. RIX</th> <th rowspan="2">NO. OF CONT</th> <th rowspan="2">Perform MS/MSD</th> <th rowspan="2">NMTPH-GX TPH as Gasoline</th> <th rowspan="2">NMTPH-DX TPH as Diesel and Motor Oil</th> <th rowspan="2">CONTAINER TYPE</th> </tr> <tr> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>22</td><td>J-5-I3</td><td>J-5-I3</td><td>10/13/2021</td><td>1330</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>23</td><td>J-7.5-I3</td><td>J-7.5-I3</td><td>10/13/2021</td><td>1335</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>24</td><td>J-10-I3</td><td>J-10-I3</td><td>10/13/2021</td><td>1340</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>25</td><td>J-2.5-H2</td><td>J-2.5-H2</td><td>10/13/2021</td><td>1345</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>26</td><td>J-5-H2</td><td>J-5-H2</td><td>10/13/2021</td><td>1350</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>27</td><td>J-7.5-H2</td><td>J-7.5-H2</td><td>10/13/2021</td><td>1355</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>28</td><td>J-10-H2</td><td>J-10-H2</td><td>10/13/2021</td><td>1400</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>29</td><td></td><td></td><td>10/13/2021</td><td>1405</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>30</td><td></td><td></td><td>10/13/2021</td><td>1410</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>31</td><td></td><td></td><td>10/13/2021</td><td>1415</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>32</td><td></td><td></td><td>10/13/2021</td><td>1420</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>33</td><td></td><td></td><td>10/13/2021</td><td>1425</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>34</td><td></td><td></td><td>10/13/2021</td><td>1430</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>35</td><td></td><td></td><td>10/13/2021</td><td>1435</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>36</td><td></td><td></td><td>10/13/2021</td><td>1440</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>37</td><td></td><td></td><td>10/13/2021</td><td>1445</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>38</td><td></td><td></td><td>10/13/2021</td><td>1450</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>39</td><td></td><td></td><td>10/13/2021</td><td>1455</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>40</td><td></td><td></td><td>10/13/2021</td><td>1500</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>41</td><td></td><td></td><td>10/13/2021</td><td>1505</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>42</td><td></td><td></td><td>10/13/2021</td><td>1510</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>43</td><td></td><td></td><td>10/13/2021</td><td>1515</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>44</td><td></td><td></td><td>10/13/2021</td><td>1520</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>45</td><td></td><td></td><td>10/13/2021</td><td>1525</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>46</td><td></td><td></td><td>10/13/2021</td><td>1530</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>47</td><td></td><td></td><td>10/13/2021</td><td>1535</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>48</td><td></td><td></td><td>10/13/2021</td><td>1540</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass 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glass jar</td></tr> <tr><td>54</td><td></td><td></td><td>10/13/2021</td><td>1610</td><td>S</td><td>4</td><td>X</td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr> <tr><td>55</td><td></td><td></td><td>10/13/2021</td></tr></tbody></table>				LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT. RIX	NO. OF CONT	Perform MS/MSD	NMTPH-GX TPH as Gasoline	NMTPH-DX TPH as Diesel and Motor Oil	CONTAINER TYPE	DATE	TIME	22	J-5-I3	J-5-I3	10/13/2021	1330	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	23	J-7.5-I3	J-7.5-I3	10/13/2021	1335	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	24	J-10-I3	J-10-I3	10/13/2021	1340	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	25	J-2.5-H2	J-2.5-H2	10/13/2021	1345	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	26	J-5-H2	J-5-H2	10/13/2021	1350	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	27	J-7.5-H2	J-7.5-H2	10/13/2021	1355	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	28	J-10-H2	J-10-H2	10/13/2021	1400	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	29			10/13/2021	1405	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	30			10/13/2021	1410	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	31			10/13/2021	1415	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	32			10/13/2021	1420	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	33			10/13/2021	1425	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	34			10/13/2021	1430	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	35			10/13/2021	1435	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	36			10/13/2021	1440	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	37			10/13/2021	1445	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	38			10/13/2021	1450	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	39			10/13/2021	1455	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	40			10/13/2021	1500	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	41			10/13/2021	1505	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	42			10/13/2021	1510	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	43			10/13/2021	1515	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	44			10/13/2021	1520	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	45			10/13/2021	1525	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	46			10/13/2021	1530	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	47			10/13/2021	1535	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	48			10/13/2021	1540	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	49			10/13/2021	1545	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	50			10/13/2021	1550	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	51			10/13/2021	1555	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	52			10/13/2021	1600	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	53			10/13/2021	1605	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	54			10/13/2021	1610	S	4	X	X	X	2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar	55			10/13/2021
LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT. RIX				NO. OF CONT	Perform MS/MSD							NMTPH-GX TPH as Gasoline	NMTPH-DX TPH as Diesel and Motor Oil	CONTAINER TYPE																																																																																																																																																																																																																																																																																																																																																																														
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72859



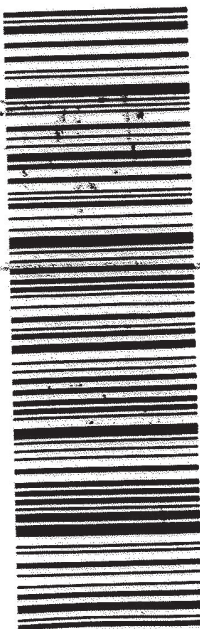
570-72859 Waybill

Pat # 156297-435 RRDB EXP 06/22

THU - 14 OCT 4:30P  
STANDARD OVERNIGHT  
NSR AHS  
92841  
CA-US SNA

FedEx  
TRK# 8135 3321 7292  
0200

92 APVA



56DJ3/14BR/FE4A

Date: 10/13/21  
Signature: *[Signature]*

RT 20

SEAL

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## 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 $\leq$ 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 $<6\text{mm}$ (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

Job ID: 570-7681C-I

i ar: i d,caoPlaj

/ ,o\$ j r nt : MAooa3 obre4Di Bul CC71000

## Qualifiers

### GC VeOi Ac p

Qualifier	Qualifier Description
C	3 x P3 x D: gvt dadeyrt s, t nt ar ra rvt o, r vadend. se mnw, t drt, rva Cm t mrvt . dr, rAnsrt j oaj tar, dnoahrvt, t p, t Pj oar, oen nmd, t aor dssaj dbak
; 6	3 x B x D f / D t Aj t t cmj oar, oen nm

## Glossary

abbreviation	These SoO Only used abbreviations Oay or Oay not be present in this report.
F	2mt c Ract, rvt daj oER a ro ct m vadrt rvd rvt , t nR nm, t so, rt c oa d c, y Lt rwr bdmn
" f	/ t, j tar f t j o%, y
i ; 2	i oardam; , t t 2rqRc
i ; U	i oay; o, . rawUam
i N;	i oardamNo; , t t 2rqRc
DM	DRsaj drt M, o, f dno (ao, . dazt c dbnoERt cmt, t aj t)
Dre; dj	DreAra; dj ro,
D2	Dt rt j roa 2n n (DoDEOM)
D2Pf 4Pf MPIN	lacj drt md DreAraPf t -dadey nmPf t -t Ar, dj roaPo, dccm adalamde. t rdenAra dadey nmoprvt nd. se
D2i	Dt j mroa 2t % ei oaj tar, dnoa (f dcroj vt . nm, y)
MD2	Mnm drt c Dt rt j roa 2n n (DreAra)
2OD	2n n opDt rt j roa (DoDEOM)
2OQ	2n n opQRdamdnoa (DoDEOM)
3 i 2	M 4, t j o. . t act c dAn R i oard. radar 2t % a
3 D4	3 ran R Dt rt j rdbak 4j nny (f dcroj vt . nm, y)
3 Di	3 ran R Dt rt j rdbak i oaj tar, dnoa (f dcroj vt . nm, y)
3 D2	3 t rvoc Dt rt j roa 2n n
3 2	3 ran R 2t % e(DreAra)
3 / N	3 onn / , obdbak NR bt ,
3 Q2	3 t rvoc QRdamdnoa 2n n
Ni	Nor i de Ract c
ND	Nor Dt rt j rt c dr rvt , t so, rawen n (o, 3 D2 o, MD2 nroLa)
NMG	Nt wdn% E4 bnt ar
/ Ox	/ onn% E/ , t nt ar
/ Q2	/ , dj nj deQRdamdnoa 2n n
/ f Mx	/ , t nR sn%
Qi	QRdey i oar, oe
f Mf	f t en% M, o, f dno (f dcroj vt . nm, y)
f 2	f t so, raw2n nro, f t qRt nnt c 2n n (f dcroj vt . nm, y)
f / D	f t en% / t, j tar Dnt, t aj t Pd . t dnRt oprvt , t en% cmt, t aj t bt rL t t a rLo soram
gM	goAj ny MqR% de ar; dj ro, (DreAra)
gMQ	goAj ny MqR% de ar QRomt ar (DreAra)
gNgi	goo NR t , oRngo i oRar

MR opami denj nt aj t 22i

# 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/0312274020

Job ID: 570-76942-1

## 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 (an) e	160		30	. )/m)	5	✖	WO TPH-Dx	Silica gel CleanKN

## 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 PC2-C13u	0p18		0p18	. )/m)	1	✖	WO TPH-g x	Total/WA
TPH as Diesel (an) e	71		69	. )/m)	5	✖	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e	130		69	. )/m)	5	✖	WO TPH-Dx	Silica gel CleanKN

## 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 PC2-C13u	51		12	. )/m)	50	✖	WO TPH-g x	Total/WA
TPH as Diesel (an) e	60		4p7	. )/m)	1	✖	WO TPH-Dx	Silica gel CleanKN

## 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 (an) e	100		55	. )/m)	10	✖	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e	330		55	. )/m)	10	✖	WO TPH-Dx	Silica gel CleanKN

## 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 (an) e	4p9		5p4	. )/m)	1	✖	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e	13		5p4	. )/m)	1	✖	WO TPH-Dx	Silica gel CleanKN

## 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 PC2-C13u	410		59	. )/m)	600	✖	WO TPH-g x	Total/WA
TPH as Diesel (an) e	7900		120	. )/m)	10	✖	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e	3700		120	. )/m)	10	✖	WO TPH-Dx	Silica gel CleanKN

## Client Sample ID: S-10-G1

## Lab Sample ID: 570-72864-7

Wb Detectionsp

## 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 PC2-C13u	170		16	. )/m)	50	✖	WO TPH-g x	Total/WA
TPH as Diesel (an) e	1800		4p0	. )/m)	1	✖	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e	690		4p0	. )/m)	1	✖	WO TPH-Dx	Silica gel CleanKN

This Detection SK . ary does not inclKde radioche. ical test resKltsp

EKrofins Calscience LLC

# Detection Summary

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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 g asoline PC2-C13u	190		160	. )/m)	500	✱	WO TPH-g x	Total/VA
TPH as Diesel ( an) e	7600		55	. )/m)	10	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e	6400		55	. )/m)	10	✱	WO TPH-Dx	Silica g el CleanKN

## 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 g asoline PC2-C13u	170		10	. )/m)	50	✱	WO TPH-g x	Total/VA
TPH as Diesel ( an) e	5400		58	. )/m)	10	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e	1400		58	. )/m)	10	✱	WO TPH-Dx	Silica g el CleanKN

## 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 g asoline PC2-C13u	7p5		0p66	. )/m)	1	✱	WO TPH-g x	Total/VA
TPH as Diesel ( an) e	6200		58	. )/m)	10	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e	490		58	. )/m)	10	✱	WO TPH-Dx	Silica g el CleanKN

## Client Sample ID: S-7.5-G3

## Lab Sample ID: 570-72864-12

Wb Detectionsp

## 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 g asoline PC2-C13u	190		11	. )/m)	50	✱	WO TPH-g x	Total/VA
TPH as Diesel ( an) e	570		68	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e	600		68	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN

## 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 g asoline PC2-C13u	540		160	. )/m)	500	✱	WO TPH-g x	Total/VA
TPH as Diesel ( an) e	11000		52	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e	900		52	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN

## 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 g asoline PC2-C13u	0p65		0p66	. )/m)	1	✱	WO TPH-g x	Total/VA

## Client Sample ID: S-10-F4

## Lab Sample ID: 570-72864-16

Wb Detectionsp

This Detection SK . ary does not inclKde radioche. ical test resKltsp

EKrofins Calscience LLC

# Detection Summary

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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 (an) e	55		20	. )/m)	1	✱	WO TPH-Dx	Silica gel CleanKN

## 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 FC2-C13u	180		66	. )/m)	100	✱	WO TPH-g x	Total/WA
TPH as Diesel (an) e	2200		88	. )/m)	10	✱	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e	1100		88	. )/m)	10	✱	WO TPH-Dx	Silica gel CleanKN

## 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 FC2-C13u	110		60	. )/m)	100	✱	WO TPH-g x	Total/WA
TPH as Diesel (an) e	1400		160	. )/m)	60	✱	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e	910		160	. )/m)	60	✱	WO TPH-Dx	Silica gel CleanKN

## 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 FC2-C13u	690		69	. )/m)	100	✱	WO TPH-g x	Total/WA
TPH as Diesel (an) e - (A	610		19	. )/m)	1	✱	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e - (A	150		19	. )/m)	1	✱	WO TPH-Dx	Silica gel CleanKN

## 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 FC2-C13u	3p8		1p1	. )/m)	1	✱	WO TPH-g x	Total/WA
TPH as Diesel (an) e	740		34	. )/m)	1	✱	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e	290		34	. )/m)	1	✱	WO TPH-Dx	Silica gel CleanKN

## 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 FC2-C13u	150		59	. )/m)	600	✱	WO TPH-g x	Total/WA
TPH as Diesel (an) e	8400		23	. )/m)	5	✱	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e	6200		23	. )/m)	5	✱	WO TPH-Dx	Silica gel CleanKN

## 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 FC2-C13u	560		54	. )/m)	600	✱	WO TPH-g x	Total/WA
TPH as Diesel (an) e - DL	66000		670	. )/m)	65	✱	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil (an) e - DL	3100		670	. )/m)	65	✱	WO TPH-Dx	Silica gel CleanKN

This Detection SK . . ary does not inclKde radioche . ical test resKltsp

EKrofins Calscience LLC

# Detection Summary

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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 g asoline PC2-C13u	540		88	. )/m)	600	✱	WO TPH-g x	Total/WA
TPH as Diesel ( an) e - DL	46000		850	. )/m)	50	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e - DL	4600		850	. )/m)	50	✱	WO TPH-Dx	Silica g el CleanKN

## 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 g asoline PC2-C13u	86		44	. )/m)	600	✱	WO TPH-g x	Total/WA
TPH as Diesel ( an) e	3600		44	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e	740		44	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN

## 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 Gil ( an) e	53		62	. )/m)	1	✱	WO TPH-Dx	Silica g el CleanKN

## 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 g asoline PC2-C13u	4p8		0p62	. )/m)	1	✱	WO TPH-g x	Total/WA
TPH as Diesel ( an) e	4900		40	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e	6500		40	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN

## 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 g asoline PC2-C13u	85		8p1	. )/m)	50	✱	WO TPH-g x	Total/WA
TPH as Diesel ( an) e	4500		24	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e	6000		24	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN

## 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 g asoline PC2-C13u	620		66	. )/m)	100	✱	WO TPH-g x	Total/WA
TPH as Diesel ( an) e	9600		37	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e	1900		37	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN

## 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 g asoline PC2-C13u	180		64	. )/m)	100	✱	WO TPH-g x	Total/WA
TPH as Diesel ( an) e	2300		39	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN
TPH as Motor Gil ( an) e	1500		39	. )/m)	5	✱	WO TPH-Dx	Silica g el CleanKN

This Detection SK . . ary does not inclKde radioche . ical test resKltsp

EKrofins Calscience LLC



# Detection Summary

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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 PC2-C13u	85		057	. )/m)	1	✱	WO TPH-g x	Total/WA
TPH as Diesel ( an) e	95		21	. )/m)	1	✱	WO TPH-Dx	Silica gel CleanKN

## 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 ( an) e	54		21	. )/m)	1	✱	WO TPH-Dx	Silica gel CleanKN
TPH as Motor Oil ( an) e	160		21	. )/m)	1	✱	WO TPH-Dx	Silica gel CleanKN

## Client Sample ID: Trip Blank

## Lab Sample ID: 570-72864-33

Wb Detectionsp

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

Client Sample ID: S-2M-r A

Lab Sample ID: 570-72891-A

Date Cclle3te/ : A0vA4v2A 07:25

x attd: Scli/

Date Re3eihe/ : A0vA1v2A A0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
. Pmag Kagoline )C2-C138	TD		0H69	s R/NR	G	10/61/61 16:5(	10/63/61 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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
. Pmag Diegel ) anRe	TD		30	s R/NR	G	10/66/61 17:21	10/63/61 14:66	5

PHG as x ctco6 il Range	A20		30	s R/NR	G	10/66/61 17:21	10/63/61 14:66	5
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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-r A

Lab Sample ID: 570-72891-2

Date Cclle3te/ : A0vA4v2A 07:40

x attd: Scli/

Date Re3eihe/ : A0vA1v2A A0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	OMO		0H(	s R/NR	G	10/61/61 16:5(	10/63/61 12:1(	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	7A		69	s R/NR	G	10/66/61 17:21	10/63/61 14:23	5

PHG as x ctco6 il Range	A40		69	s R/NR	G	10/66/61 17:21	10/63/61 14:23	5
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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-7M-r A

Lab Sample ID: 570-72891-4

Date Cclle3te/ : A0vA4v2A 07:45

x attd: Scli/

Date Re3eihe/ : A0vA1v2A A0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	5A		12	s R/NR	G	10/61/61 16:5(	10/63/61 61:69	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	20		4H7	s R/NR	G	10/66/61 17:21	10/63/61 17:06	1

. Pmag Motor u il ) anRe	TD		4H7	s R/NR	G	10/66/61 17:21	10/63/61 17:06	1
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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

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

Client Sample ID: S-2M-wA

Lab Sample ID: 570-72891-1

Date Cclle3te/ : A0vA4v2A08:A0

x attd: Scli/

Date Re3eihe/ : A0vA1v2A00:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
. Pmag Kagoline )C2-C138	TD		0H6	s R/NR	G	10/61/61 16:5(	10/63/61 1(: :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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	A00		55	s R/NR	G	10/66/61 17:21	10/63/61 17:66	10
PHG as x ctco6 il Range	440		55	s R/NR	G	10/66/61 17:21	10/63/61 17:66	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-wA

Lab Sample ID: 570-72891-5

Date Cclle3te/ : A0vA4v2A08:A5

x attd: Scli/

Date Re3eihe/ : A0vA1v2A00:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
. Pmag Kagoline )C2-C138	TD		0H(	s R/NR	G	10/61/61 16:5(	10/63/61 15:6(	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	9M		5H4	s R/NR	G	10/66/61 17:21	10/63/61 17:23	1
PHG as x ctco6 il Range	A4		5H4	s R/NR	G	10/66/61 17:21	10/63/61 17:23	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-7M-wA

Lab Sample ID: 570-72891-9

Date Cclle3te/ : A0vA4v2A08:20

x attd: Scli/

Date Re3eihe/ : A0vA1v2A00:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	9A0		59	s R/NR	G	10/61/61 16:5(	10/62/61 02:10	600

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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	7800		120	s R/NR	G	10/66/61 17:21	10/63/61 19:02	10
PHG as x ctco6 il Range	4700		120	s R/NR	G	10/66/61 17:21	10/63/61 19:02	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/0312274020

Job ID: 570-76942-1

## Client Sample ID: S-A0-wA

Date Cclle3te/ : A0vA4v2A08:25

Date Re3eihe/ : A0vA1v2AA0:00

## Lab Sample ID: 570-72891-7

x attd: Scli/

### x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
. Pmag Kagoline )C2-C138	TD		0H9	s R/NR	G	10/61/61 16:5(	10/63/61 15:56	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

### x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
. Pmag Diegel ) anRe	TD		11	s R/NR	G	10/66/61 17:21	10/63/61 19:63	1
. Pmag Motor u il ) anRe	TD		11	s R/NR	G	10/66/61 17:21	10/63/61 19:63	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-2M-r 2

Date Cclle3te/ : A0vA4v2A08:40

Date Re3eihe/ : A0vA1v2AA0:00

## Lab Sample ID: 570-72891-8

x attd: Scli/

### x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	A70		16	s R/NR	G	10/61/61 16:5(	10/63/61 66:3(	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

### x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	AC00		4H	s R/NR	G	10/66/61 17:21	10/63/61 19:23	1
PHG as x ctco6 il Range	280		4H	s R/NR	G	10/66/61 17:21	10/63/61 19:23	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-r 2

Date Cclle3te/ : A0vA4v2A08:45

Date Re3eihe/ : A0vA1v2AA0:00

## Lab Sample ID: 570-72891-C

x attd: Scli/

### x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	A80		160	s R/NR	G	10/61/61 16:5(	10/63/61 63:06	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

### x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	7200		55	s R/NR	G	10/66/61 17:21	10/63/61 1(:03	10
PHG as x ctco6 il Range	2900		55	s R/NR	G	10/66/61 17:21	10/63/61 1(: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

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

Client Sample ID: S-2M-w4

Lab Sample ID: 570-72891-A0

Date Cclle3te/ : A0vA4v2A08:10

x attd: Scli/

Date Re3eihe/ : A0vA1v2A00:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	A70		10	s R/NR	G	10/61/61 16:5(	10/64/61 60:59	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as Diesel Range	5900		5(	s R/NR	G	10/66/61 17:21	10/63/61 1( :62	10
PHG as x ctco6 il Range	A900		5(	s R/NR	G	10/66/61 17:21	10/63/61 1( :62	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-w4

Lab Sample ID: 570-72891-AA

Date Cclle3te/ : A0vA4v2A08:15

x attd: Scli/

Date Re3eihe/ : A0vA1v2A00:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	7M		0H66	s R/NR	G	10/61/61 16:5(	10/62/61 06:16	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as Diesel Range	2100		5(	s R/NR	G	10/66/61 17:21	10/63/61 60:62	10
PHG as x ctco6 il Range	980		5(	s R/NR	G	10/66/61 17:21	10/63/61 60:62	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-7M-w4

Lab Sample ID: 570-72891-A2

Date Cclle3te/ : A0vA4v2A08:50

x attd: Scli/

Date Re3eihe/ : A0vA1v2A00:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
. Pmag Kagoline )C2-C138	TD		0H69	s R/NR	G	10/61/61 16:5(	10/62/61 06:35	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
. Pmag Diegel ) anRe	TD		5H2	s R/NR	G	10/66/61 17:21	10/63/61 60:25	1
. Pmag Motor u il ) anRe	TD		5H2	s R/NR	G	10/66/61 17:21	10/63/61 60:25	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/0312274020

Job ID: 570-76942-1

Client Sample ID: S-2M-r 1

Lab Sample ID: 570-72891-A4

Date Cclle3te/ : A0vA4v2A0Q00

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	A80		11	s R/NR	G	10/61/61 16:5(	10/64/61 61:61	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as Diesel Range	570		6(	s R/NR	G	10/66/61 17:21	10/63/61 61:02	5
PHG as x ctco6 il Range	200		6(	s R/NR	G	10/66/61 17:21	10/63/61 61:02	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-r 1

Lab Sample ID: 570-72891-A1

Date Cclle3te/ : A0vA4v2A0Q05

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	590		160	s R/NR	G	10/61/61 16:5(	10/64/61 61:25	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as Diesel Range	AA000		52	s R/NR	G	10/66/61 17:21	10/63/61 61:65	5
PHG as x ctco6 il Range	800		52	s R/NR	G	10/66/61 17:21	10/63/61 61:65	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-7M-r 1

Lab Sample ID: 570-72891-A5

Date Cclle3te/ : A0vA4v2A0Q0A5

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	0M5		0H66	s R/NR	G	10/61/61 16:5(	10/65/61 1(: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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
. Pmag Diegel ) anRe	TD		4H0	s R/NR	G	10/66/61 17:21	10/63/61 61:25	1
. Pmag Motor u il ) anRe	TD		4H0	s R/NR	G	10/66/61 17:21	10/63/61 61:25	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

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

Client Sample ID: S-A0-r 1

Lab Sample ID: 570-72891-A9

Date Cclle3te/ : A0vA4v2A0Q20

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høpace/	F nalzUe/	Dil r a3
. Pmag Kagoline )C2-C138	TD		0H5	s R/NR	G	10/61/61 16:5(	10/65/61 1(: :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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høpace/	F nalzUe/	Dil r a3
. Pmag Diegel ) anRe	TD		4H0	s R/NR	G	10/66/61 17:21	10/63/61 66:05	1
. Pmag Motor u il ) anRe	TD		4H0	s R/NR	G	10/66/61 17:21	10/63/61 66:05	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-A2M-r 1

Lab Sample ID: 570-72891-A7

Date Cclle3te/ : A0vA4v2A0Q25

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høpace/	F nalzUe/	Dil r a3
. Pmag Kagoline )C2-C138	TD		1H7	s R/NR	G	10/61/61 16:5(	10/65/61 1(: :59	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høpace/	F nalzUe/	Dil r a3
. Pmag Diegel ) anRe	TD		20	s R/NR	G	10/66/61 17:21	10/63/61 66:65	1
PHG as x ctco6 il Range	55		20	s R/NR	G	10/66/61 17:21	10/63/61 66:65	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-w5

Lab Sample ID: 570-72891-A8

Date Cclle3te/ : A0vA4v2A0Q40

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	AC0		66	s R/NR	G	10/61/61 16:5(	10/65/61 60:66	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	1100		((	s R/NR	G	10/66/61 17:21	10/63/61 66:24	10
PHG as x ctco6 il Range	AA00		((	s R/NR	G	10/66/61 17:21	10/63/61 66:24	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/0312274020

Job ID: 570-76942-1

Client Sample ID: S-7M-w5

Lab Sample ID: 570-72891-AC

Date Cclle3te/ : A0vA4v2A0Q45

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	AA0		60	s R/NR	G	10/61/61 16:5(	10/65/61 60:24	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as Diesel Range	A900		160	s R/NR	G	10/66/61 17:21	10/63/61 63:04	60
PHG as x ctco6 il Range	8A0		160	s R/NR	G	10/66/61 17:21	10/63/61 63:04	60

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-A0-w5

Lab Sample ID: 570-72891-20

Date Cclle3te/ : A0vA4v2A0Q10

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	280		69	s R/NR	G	10/61/61 16:5(	10/64/61 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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup - RF

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as Diesel Range	2A0		19	s R/NR	G	10/66/61 17:21	10/64/61 12:20	1
PHG as x ctco6 il Range	A50		19	s R/NR	G	10/66/61 17:21	10/64/61 12:20	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-A2M-w5

Lab Sample ID: 570-72891-2A

Date Cclle3te/ : A0vA4v2A0Q15

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	4M		1H	s R/NR	G	10/61/61 16:5(	10/65/61 66:19	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as Diesel Range	790		34	s R/NR	G	10/66/61 19:69	10/62/61 03:13	1
PHG as x ctco6 il Range	180		34	s R/NR	G	10/66/61 19:69	10/62/61 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/0312274020

Job ID: 570-76942-1

Client Sample ID: S-5-r 9

Date Cclle3te/ : A0vA4v2A0Q55

Date Re3eihe/ : A0vA1v2AA0:00

Lab Sample ID: 570-72891-22

x attd: Scli/

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	A50		59	s R/NR	G	10/61/61 16:5(	10/62/61 02:33	600

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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	C800		23	s R/NR	G	10/66/61 19:69	10/62/61 03:32	5
PHG as x ctco6 il Range	2100		23	s R/NR	G	10/66/61 19:69	10/62/61 03:32	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-7M-r 9

Date Cclle3te/ : A0vA4v2AA0:00

Date Re3eihe/ : A0vA1v2AA0:00

Lab Sample ID: 570-72891-24

x attd: Scli/

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	520		54	s R/NR	G	10/61/61 16:5(	10/62/61 02:57	600

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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup - DL

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	22000		670	s R/NR	G	10/66/61 19:69	10/64/61 14:06	65
PHG as x ctco6 il Range	4A00		670	s R/NR	G	10/66/61 19:69	10/64/61 14:06	65

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-A0-r 9

Date Cclle3te/ : A0vA4v2AA0:05

Date Re3eihe/ : A0vA1v2AA0:00

Lab Sample ID: 570-72891-21

x attd: Scli/

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	590		((	s R/NR	G	10/61/61 16:5(	10/62/61 05:60	600

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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup - DL

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	92000		( 50	s R/NR	G	10/66/61 19:69	10/64/61 14:63	50
PHG as x ctco6 il Range	9200		( 50	s R/NR	G	10/66/61 19:69	10/64/61 14:63	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

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

Client Sample ID: S-A2M-r 9

Lab Sample ID: 570-72891-25

Date Cclle3te/ : A0vA4v2AA0:A0

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	Q2		44	s R/NR	G	10/61/61 16:5(	10/62/61 05:22	600

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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	4200		44	s R/NR	G	10/66/61 19:69	10/62/61 02:37	5
PHG as x ctco6 il Range	790		44	s R/NR	G	10/66/61 19:69	10/62/61 02:37	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-A5-r 9

Lab Sample ID: 570-72891-29

Date Cclle3te/ : A0vA4v2AA0:A5

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
. Pmag Kagoline )C2-C138	TD		0H73	s R/NR	G	10/61/61 16:5(	10/65/61 66:21	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
. Pmag Diegel ) anRe	TD		62	s R/NR	G	10/66/61 19:69	10/62/61 02:57	1
PHG as x ctco6 il Range	54		62	s R/NR	G	10/66/61 19:69	10/62/61 02:57	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-2M-w7

Lab Sample ID: 570-72891-27

Date Cclle3te/ : A0vA4v2AA0:40

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	9M0		0H62	s R/NR	G	10/61/61 16:5(	10/65/61 63:05	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	9800		40	s R/NR	G	10/66/61 19:69	10/62/61 05:19	5
PHG as x ctco6 il Range	2500		40	s R/NR	G	10/66/61 19:69	10/62/61 05:19	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

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

Client Sample ID: S-5-w7

Lab Sample ID: 570-72891-28

Date Cclle3te/ : A0vA4v2AA0:45

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	05		( H	s R/NR	G	10/61/61 16:5(	10/64/61 19:21	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as Diesel Range	9500		24	s R/NR	G	10/66/61 19:69	10/62/61 05:3(	5
PHG as x ctco6 il Range	2000		24	s R/NR	G	10/66/61 19:69	10/62/61 05:3(	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-7M-w7

Lab Sample ID: 570-72891-20

Date Cclle3te/ : A0vA4v2AA0:10

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	210		66	s R/NR	G	10/61/61 16:5(	10/64/61 1( :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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as Diesel Range	8200		37	s R/NR	G	10/66/61 19:69	10/62/61 04:00	5
PHG as x ctco6 il Range	A800		37	s R/NR	G	10/66/61 19:69	10/62/61 04:00	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-A0-w7

Lab Sample ID: 570-72891-40

Date Cclle3te/ : A0vA4v2AA0:15

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as wascline )C1-CA4y	A00		64	s R/NR	G	10/61/61 16:5(	10/64/61 60:32	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Høepacē/	F nalzUē/	Dil r a3
PHG as Diesel Range	1400		39	s R/NR	G	10/66/61 19:69	10/62/61 04:61	5
PHG as x ctco6 il Range	A500		39	s R/NR	G	10/66/61 19:69	10/62/61 04:61	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

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

Client Sample ID: S-A2M-w7

Lab Sample ID: 570-72891-4A

Date Cclle3te/ : A0vA4v2AA0:50

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as wascline )C1-CA4y	ON		0H7	s R/NR	G	10/61/61 16:5(	10/64/61 00:3(	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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	85		21	s R/NR	G	10/66/61 19:69	10/62/61 04:26	1
. Pmag Motor u il ) anRe	TD		21	s R/NR	G	10/66/61 19:69	10/62/61 04:26	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-A5-w7

Lab Sample ID: 570-72891-42

Date Cclle3te/ : A0vA4v2AA0:55

x attd: Scli/

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
. Pmag Kagoline :C2-C138	TD		1H0	s R/NR	G	10/60/61 0( :50	10/60/61 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

x etNc/ : WT PHG-Dd - WcdNVest - Semi-( clatile Hetocleum Hcc/ u3ts )wCy- Sili3a wel Cleanup

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
PHG as Diesel Range	59		21	s R/NR	G	10/66/61 19:69	10/62/61 07:06	1
PHG as x ctco6 il Range	A20		21	s R/NR	G	10/66/61 19:69	10/62/61 07:06	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: Pdp Blank

Lab Sample ID: 570-72891-44

Date Cclle3te/ : A0vA4v2AA0:00

x attd: T ateo

Date Re3eihe/ : A0vA1v2AA0:00

x etNc/ : WT PHG-wd - WcdNVest - ( clatile Hetocleum Hcc/ u3ts )wCy

Fnalzte	Result	f uali. ieo	RL	Qnit	D	Hœpace/	F nalzUe/	Dil r a3
. Pmag Kagoline :C2-C138	TD		100	f R/O	-		10/1( /61 63:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		50 - 150		10/19/21 23:30	1

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# 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/0312274020

Job ID: 570-76942-1

## 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 (C2-C13)	ND		100	. mg			10/1K/61 19:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		80 - 180				10/17/21 1:32	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 (C2-C13)	6130	60KK		. mg		KK	74 - 169
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	71		80 - 180				

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 (C2-C13)	6130	6111		. mg		KK	74 - 169	1	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	6		80 - 180						

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 (C2-C13)	ND		6130	6070		. mg		K7	4K - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	7		80 - 180						

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 (C2-C13)	ND		6130	6160		. mg		100	4K - 136	6	15
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	71		80 - 180								

# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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 (C2-C13)	ND		0.65	f mLm		10/60/61 0K:50	10/60/61 16:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		80 - 180			10/20/21 07:30	10/20/21 12:35	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 (C2-C13)	6.13	6.627		f mLm		105	77 - 169
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	126		80 - 180				

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 (C2-C13)	6.16	6.174		f mLm		106	77 - 169	3	14
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	12		80 - 180						

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 (C2-C13)	ND		6.16	1.045		f mLm		99	29 - 112
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	195		80 - 180						

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 (C2-C13)	ND		6.16	1.091		f mLm		75	29 - 112	14	63
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	199		80 - 180								

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# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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 (C2-C13)	ND		0.65	f mLm			10/63/61 16:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		80 - 180				10/29/21 12:36	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 (C2-C13)	6.13	1.49		f mLm		93	77 - 169
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	75		80 - 180				

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 (C2-C13)	6.13	1.07		f mLm		95	77 - 169	6	14
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	71		80 - 180						

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 (C2-C13)	ND		0.65	f mLm			10/63/61 13:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	19		80 - 180				10/29/21 19:34	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 (C2-C13)	ND		5.0	f mLm			10/63/61 12:17	60
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	57		80 - 180				10/29/21 14:36	20

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# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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 (C2-C13)	6u6	1u36		f mLm		K1	77 - 169
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	: 5		80 - 180				

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 (C2-C13)	6u6	1u54		f mLm		97	77 - 169	2	14
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	10:		80 - 180						

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 (C2-C13)	ND		0u65	f mLm			10/62/61 01:01	1
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	: 6		80 - 180		10/24/21 01:31	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 (C2-C13)	ND		5u0	f mLm			10/62/61 01:62	60
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	5:		80 - 180		10/24/21 01:34	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 (C2-C13)	6u3	1u13		f mLm		95	77 - 169
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	105		80 - 180				

# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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 (C2-C13)	6ul3	1u47		f mLm		99	77 - 169	3	14
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		80 - 180						

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 (C2-C13)	ND		0u65	f mLm			10/65/61 12:23	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 5		80 - 180				10/28/21 14:39	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 (C2-C13)	ND		5u0	f mLm			10/65/61 15:07	60
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		80 - 180				10/28/21 18:06	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		
TPH as Gasoline (C2-C13)	6ul3	1u52		f mLm		97	77 - 169		
Surrogate	%Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	74		80 - 180						

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 (C2-C13)	6ul3	1u51		f mLm		K6	77 - 169	5	14
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		80 - 180						

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# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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 (C2-C13)	ND		50	f mLm			10/64/61 12:34	60
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67		80 - 180				10/25/21 14:35	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 (C2-C13)	6013	6003		f mLm		K2	77 - 169
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	112		80 - 180				

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 (C2-C13)	6013	6001		f mLm		K2	77 - 169	0	14
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		80 - 180						

## 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		50	f mLm		10/66/61 17:21	10/63/61 13:01	1
TPH as Motor Oil Range	ND		50	f mLm		10/66/61 17:21	10/63/61 13:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	74		80 - 180			10/22/21 16:31	10/29/21 19:31	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-C69)	200	3K60		f mLm		K9	74 - 164
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	79		80 - 180				

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# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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

			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
TPH as Motor Oil (C17-C22)			200	209u8		f mLm		106	71 - 13K		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
n-Octacosane (Surr)	74		80 - 180								

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

Table 1: Data for Table 1											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Diesel (C10-C69)			200	391u4		f mLm	-	K5	74 - 164	3	60
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	71		80 - 180								

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-C22)			200	377u0		f mLm		K2	71 - 13K	9	60
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	71		80 - 180								

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-C69)	54		295	539u7		f mLm	☀	100	37 - 175		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	72		80 - 180								

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-C22)	150		2K9	495u4		f mLm	☼	107	71 - 172		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	71		80 - 180								

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# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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-C69)	54		270	5K1u		f mLm	☆	112	37 - 175	K	60
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	100		80 - 180								

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-C22)	150		27K	709u		f mLm	☆	114	71 - 172	3	60
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	72		80 - 180								

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 Ranre	ND		5u	f mLm		10/66/61 19:69	10/63/61 13:61	1
TPH as Motor Oil Ranre	ND		5u	f mLm		10/66/61 19:69	10/63/61 13:61	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-Octacosane (Surr)	74		80 - 180	10/22/21 1: 3:	10/29/21 19:21	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-C69)			200	342u		f mLm		K1	74 - 164		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
n-Octacosane (Surr)	74		80 - 180								

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-C22)			200	342u		f mLm		K1	71 - 13K		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
n-Octacosane (Surr)		71		80 - 180							

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# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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-C69)			200	344u5		f mLm		K6	74 - 164	1	60
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	76		80 - 180								

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-C22)			200	343u6		f mLm		K1	71 - 13K	0	60
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	78		80 - 180								

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		
TPH as Diesel (C10-C69)	7700		K23	774K	2	f mLm	✱	4	37 - 175		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	101		80 - 180								

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		
TPH as Motor Oil (C17-C22)	4000	F6	942	2K35	2	f mLm	✱	-166	71 - 172		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	102		80 - 180								

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-C69)	7700		953	9255	2	f mLm	✱	99	37 - 175	9	60
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	111		80 - 180								

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# QC Sample Results

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C22)	4000	F6	933	43K7	2 F6	f mLm	✧	2K	71 - 172	64	60

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane (Surr)	100		80 - 180

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## GC VOA

### Analysis Batch: 187662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-33	NiF ulanf	Nbtal/T A	. ater	T. NP8 -Gx	
Mu 570-197446/5	Metsod ulanf	Nbtal/T A	. ater	T. NP8 -Gx	
LCS 570-197446/3	Lab Control SaU Fle	Nbtal/T A	. ater	T. NP8 -Gx	
LCSD 570-197446/2	Lab Control SaU Fle DHF	Nbtal/T A	. ater	T. NP8 -Gx	
570-76VWD-3 MS	Matrix SFif e	Nbtal/T A	. ater	T. NP8 -Gx	
570-76VWD-3 MSD	Matrix SFif e DHFlicate	Nbtal/T A	. ater	T. NP8 -Gx	

### Analysis Batch: 187780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-36	S-15-G7	Nbtal/T A	Solid	T. NP8 -Gx	197969
Mu 570-197969/3-A	Metsod ulanf	Nbtal/T A	Solid	T. NP8 -Gx	197969
LCS 570-197969/1-A	Lab Control SaU Fle	Nbtal/T A	Solid	T. NP8 -Gx	197969
LCSD 570-197969/6-A	Lab Control SaU Fle DHF	Nbtal/T A	Solid	T. NP8 -Gx	197969
570-73195-u-2-u MS	Matrix SFif e	Nbtal/T A	Solid	T. NP8 -Gx	197969
570-73195-u-2-C MSD	Matrix SFif e DHFlicate	Nbtal/T A	Solid	T. NP8 -Gx	197969

### Prep Batch: 187828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-36	S-15-G7	Nbtal/T A	Solid	5030C	
Mu 570-197969/3-A	Metsod ulanf	Nbtal/T A	Solid	5030C	
LCS 570-197969/1-A	Lab Control SaU Fle	Nbtal/T A	Solid	5030C	
LCSD 570-197969/6-A	Lab Control SaU Fle DHF	Nbtal/T A	Solid	5030C	
570-73195-u-2-u MS	Matrix SFif e	Nbtal/T A	Solid	5030C	
570-73195-u-2-C MSD	Matrix SFif e DHFlicate	Nbtal/T A	Solid	5030C	

### Prep Batch: 188221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-1	S-6B-h1	Nbtal/T A	Solid	5035	
570-76942-6	S-5-h1	Nbtal/T A	Solid	5035	
570-76942-2	S-6B-G1	Nbtal/T A	Solid	5035	
570-76942-5	S-5-G1	Nbtal/T A	Solid	5035	
570-76942-7	S-10-G1	Nbtal/T A	Solid	5035	
570-76942-11	S-5-G3	Nbtal/T A	Solid	5035	
570-76942-16	S-7B-G3	Nbtal/T A	Solid	5035	
570-76942-15	S-7B-h2	Nbtal/T A	Solid	5035	
570-76942-14	S-10-h2	Nbtal/T A	Solid	5035	
570-76942-17	S-16B-h2	Nbtal/T A	Solid	5035	
570-76942-61	S-16B-G5	Nbtal/T A	Solid	5035	
570-76942-64	S-15-h4	Nbtal/T A	Solid	5035	
570-76942-67	S-6B-G7	Nbtal/T A	Solid	5035	
570-76942-31	S-16B-G7	Nbtal/T A	Solid	5035	

### Prep Batch: 188222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-3	S-7B-h1	Nbtal/T A	Solid	5035	
570-76942-4	S-7B-G1	Nbtal/T A	Solid	5035	
570-76942-9	S-6B-h6	Nbtal/T A	Solid	5035	
570-76942-W	S-5-h6	Nbtal/T A	Solid	5035	
570-76942-10	S-6B-G3	Nbtal/T A	Solid	5035	
570-76942-13	S-6B-h2	Nbtal/T A	Solid	5035	
570-76942-12	S-5-h2	Nbtal/T A	Solid	5035	

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## GC VOA (Continued)

### Prep Batch: 188222 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-19	S-5-G5	Nbtal/T A	Solid	5035	
570-76942-1W	S-7B5-G5	Nbtal/T A	Solid	5035	
570-76942-60	S-10-G5	Nbtal/T A	Solid	5035	
570-76942-66	S-5-h4	Nbtal/T A	Solid	5035	
570-76942-63	S-7B5-h4	Nbtal/T A	Solid	5035	
570-76942-62	S-10-h4	Nbtal/T A	Solid	5035	
570-76942-65	S-16B5-h4	Nbtal/T A	Solid	5035	
570-76942-69	S-5-G7	Nbtal/T A	Solid	5035	
570-76942-6W	S-7B5-G7	Nbtal/T A	Solid	5035	
570-76942-30	S-10-G7	Nbtal/T A	Solid	5035	

### Analysis Batch: 188790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-1	S-6B5-h1	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-6	S-5-h1	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-5	S-5-G1	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-7	S-10-G1	Nbtal/T A	Solid	T. NP8-Gx	199661
Mu 570-1997V0/5	Metsod ulanf	Nbtal/T A	Solid	T. NP8-Gx	
LCS 570-1997V0/3	Lab Control SaUFle	Nbtal/T A	Solid	T. NP8-Gx	
LCSD 570-1997V0/2	Lab Control SaUFle DHF	Nbtal/T A	Solid	T. NP8-Gx	

### Analysis Batch: 188860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-3	S-7B5-h1	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-2	S-6B5-G1	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-9	S-6B5-h6	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-W	S-5-h6	Nbtal/T A	Solid	T. NP8-Gx	199666
Mu 570-199940/5	Metsod ulanf	Nbtal/T A	Solid	T. NP8-Gx	
Mu 570-199940/4	Metsod ulanf	Nbtal/T A	Solid	T. NP8-Gx	
LCS 570-199940/3	Lab Control SaUFle	Nbtal/T A	Solid	T. NP8-Gx	
LCSD 570-199940/2	Lab Control SaUFle DHF	Nbtal/T A	Solid	T. NP8-Gx	

### Analysis Batch: 188902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-4	S-7B5-G1	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-11	S-5-G3	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-16	S-7B5-G3	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-66	S-5-h4	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-63	S-7B5-h4	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-62	S-10-h4	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-65	S-16B5-h4	Nbtal/T A	Solid	T. NP8-Gx	199666
Mu 570-199V06/36	Metsod ulanf	Nbtal/T A	Solid	T. NP8-Gx	
Mu 570-199V06/33	Metsod ulanf	Nbtal/T A	Solid	T. NP8-Gx	
LCS 570-199V06/30	Lab Control SaUFle	Nbtal/T A	Solid	T. NP8-Gx	
LCSD 570-199V06/31	Lab Control SaUFle DHF	Nbtal/T A	Solid	T. NP8-Gx	

### Analysis Batch: 189086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-15	S-7B5-h2	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-14	S-10-h2	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-17	S-16B5-h2	Nbtal/T A	Solid	T. NP8-Gx	199661

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## GC VOA (Continued)

### Analysis Batch: 189086 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-19	S-5-G5	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-1W	S-7B5-G5	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-60	S-10-G5	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-61	S-16B5-G5	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-64	S-15-h4	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-67	S-6B5-G7	Nbtal/T A	Solid	T. NP8-Gx	199661
570-76942-31	S-16B5-G7	Nbtal/T A	Solid	T. NP8-Gx	199661
Mu 570-19V094/5	Metsod ulanf	Nbtal/T A	Solid	T. NP8-Gx	
Mu 570-19V094/4	Metsod ulanf	Nbtal/T A	Solid	T. NP8-Gx	
LCS 570-19V094/3	Lab Control SaUFle	Nbtal/T A	Solid	T. NP8-Gx	
LCSD 570-19V094/2	Lab Control SaUFle DHF	Nbtal/T A	Solid	T. NP8-Gx	

### Analysis Batch: 189371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-10	S-6B5-G3	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-13	S-6B5-h2	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-12	S-5-h2	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-69	S-5-G7	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-6W	S-7B5-G7	Nbtal/T A	Solid	T. NP8-Gx	199666
570-76942-30	S-10-G7	Nbtal/T A	Solid	T. NP8-Gx	199666
Mu 570-19V071/4	Metsod ulanf	Nbtal/T A	Solid	T. NP8-Gx	
LCS 570-19V071/3	Lab Control SaUFle	Nbtal/T A	Solid	T. NP8-Gx	
LCSD 570-19V071/2	Lab Control SaUFle DHF	Nbtal/T A	Solid	T. NP8-Gx	

## GC Semi VOA

### Prep Batch: 188710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-1	S-6B5-h1	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-6	S-5-h1	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-3	S-7B5-h1	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-2	S-6B5-G1	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-5	S-5-G1	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-4	S-7B5-G1	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-7	S-10-G1	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-9	S-6B5-h6	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-W	S-5-h6	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-10	S-6B5-G3	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-11	S-5-G3	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-16	S-7B5-G3	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-13	S-6B5-h2	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-12	S-5-h2	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-15	S-7B5-h2	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-14	S-10-h2	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-17	S-16B5-h2	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-19	S-5-G5	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-1W	S-7B5-G5	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-60 - p A	S-10-G5	Silica Gel CleanHF	Solid	3550C SGC	
Mu 570-199710/1-A	Metsod ulanf	Silica Gel CleanHF	Solid	3550C SGC	
LCS 570-199710/6-A	Lab Control SaUFle	Silica Gel CleanHF	Solid	3550C SGC	
LCS 570-199710/4-A	Lab Control SaUFle	Silica Gel CleanHF	Solid	3550C SGC	

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## GC Semi VOA (Continued)

### Prep Batch: 188710 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-199710/3-A	Lab Control SaUFle DHF	Silica Gel CleanHF	Solid	3550C SGC	
LCSD 570-199710/7-A	Lab Control SaUFle DHF	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-1 MS	S-6B5-h1	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-1 MS	S-6B5-h1	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-1 MSD	S-6B5-h1	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-1 MSD	S-6B5-h1	Silica Gel CleanHF	Solid	3550C SGC	

### Prep Batch: 188727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-61	S-16B5-G5	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-66	S-5-h4	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-63 - DL	S-7B5-h4	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-62 - DL	S-10-h4	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-65	S-16B5-h4	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-64	S-15-h4	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-67	S-6B5-G7	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-69	S-5-G7	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-6W	S-7B5-G7	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-30	S-10-G7	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-31	S-16B5-G7	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-36	S-15-G7	Silica Gel CleanHF	Solid	3550C SGC	
Mu 570-199767/1-A	Metsod ulanf	Silica Gel CleanHF	Solid	3550C SGC	
LCS 570-199767/6-A	Lab Control SaUFle	Silica Gel CleanHF	Solid	3550C SGC	
LCS 570-199767/4-A	Lab Control SaUFle	Silica Gel CleanHF	Solid	3550C SGC	
LCSD 570-199767/3-A	Lab Control SaUFle DHF	Silica Gel CleanHF	Solid	3550C SGC	
LCSD 570-199767/7-A	Lab Control SaUFle DHF	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-67 MS	S-6B5-G7	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-67 MS	S-6B5-G7	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-67 MSD	S-6B5-G7	Silica Gel CleanHF	Solid	3550C SGC	
570-76942-67 MSD	S-6B5-G7	Silica Gel CleanHF	Solid	3550C SGC	

### Analysis Batch: 188826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-1	S-6B5-h1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-6	S-5-h1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-3	S-7B5-h1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-2	S-6B5-G1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-5	S-5-G1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-4	S-7B5-G1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-7	S-10-G1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-9	S-6B5-h6	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-W	S-5-h6	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-10	S-6B5-G3	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-11	S-5-G3	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-16	S-7B5-G3	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-13	S-6B5-h2	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-12	S-5-h2	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-15	S-7B5-h2	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-14	S-10-h2	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-17	S-16B5-h2	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-19	S-5-G5	Silica Gel CleanHF	Solid	T. NP8-Dx	199710

EHokinmCalncience LLC

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

## GC Semi VOA (Continued)

### Analysis Batch: 188826 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-1W	S-7B5-G5	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-61	S-16B5-G5	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-66	S-5-h4	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-65	S-16B5-h4	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-64	S-15-h4	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-67	S-6B5-G7	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-69	S-5-G7	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-6W	S-7B5-G7	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-30	S-10-G7	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-31	S-16B5-G7	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-36	S-15-G7	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
Mu 570-199710/1-A	Metsod ulanf	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
Mu 570-199767/1-A	Metsod ulanf	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
LCS 570-199710/6-A	Lab Control SaUFle	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
LCS 570-199710/4-A	Lab Control SaUFle	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
LCS 570-199767/6-A	Lab Control SaUFle	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
LCS 570-199767/4-A	Lab Control SaUFle	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
LCSD 570-199710/3-A	Lab Control SaUFle DHF	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
LCSD 570-199710/7-A	Lab Control SaUFle DHF	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
LCSD 570-199767/3-A	Lab Control SaUFle DHF	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
LCSD 570-199767/7-A	Lab Control SaUFle DHF	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-1 MS	S-6B5-h1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-1 MS	S-6B5-h1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-1 MSD	S-6B5-h1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-1 MSD	S-6B5-h1	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-67 MS	S-6B5-G7	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-67 MS	S-6B5-G7	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-67 MSD	S-6B5-G7	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-67 MSD	S-6B5-G7	Silica Gel CleanHF	Solid	T. NP8-Dx	199767

### Analysis Batch: 189384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76942-60 - p A	S-10-G5	Silica Gel CleanHF	Solid	T. NP8-Dx	199710
570-76942-63 - DL	S-7B5-h4	Silica Gel CleanHF	Solid	T. NP8-Dx	199767
570-76942-62 - DL	S-10-h4	Silica Gel CleanHF	Solid	T. NP8-Dx	199767



# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	Prep	5035			5g71 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	1997T0	10/63/61 13:55	P1m	ECL 6
		InVWU ent ID: RC57								
Silica Rel CleanUp	Prep	3550C SRC			TgT y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		5			199964	10/63/61 14:66	. 1A	ECL 1
		InVWU ent ID: RC50								

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	Prep	5035			7g19 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	1997T0	10/63/61 12:1T	P1m	ECL 6
		InVWU ent ID: RC57								
Silica Rel CleanUp	Prep	3550C SRC			10g56 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		5			199964	10/63/61 14:23	. 1A	ECL 1
		InVWU ent ID: RC50								

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	Prep	5035			5g46 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		50	5 u L	5 u L	199940	10/63/61 61:69	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			Tg46 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/63/61 17:06	. 1A	ECL 1
		InVWU ent ID: RC50								

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	Prep	5035			4gT9 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	199940	10/63/61 1T:53	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			10g86 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		10			199964	10/63/61 17:66	. 1A	ECL 1
		InVWU ent ID: RC50								

# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

**Client Sample ID: S-5-G1**

**Date Collected: 10/13/21 08:15**

**Date Received: 10/14/21 10:00**

**Lab Sample ID: 570-72864-5**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	Prep	5035			7g45 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	1997T0	10/63/61 15:6T	P1m	ECL 6
		InVWU ent ID: RC57								
Silica Rel CleanUp	Prep	3550C SRC			10g9 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/63/61 17:23	. 1A	ECL 1
		InVWU ent ID: RC50								

**Client Sample ID: S-7.5-G1**

**Date Collected: 10/13/21 08:20**

**Date Received: 10/14/21 10:00**

**Lab Sample ID: 570-72864-6**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	Prep	5035			5g79 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		600	5 u L	5 u L	199T06	10/62/61 02:10	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			2g4 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		10			199964	10/63/61 19:02	. 1A	ECL 1
		InVWU ent ID: RC50								

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	Prep	5035			4g4T y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	1997T0	10/63/61 15:56	P1m	ECL 6
		InVWU ent ID: RC57								
Silica Rel CleanUp	Prep	3550C SRC			4g5 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/63/61 19:63	. 1A	ECL 1
		InVWU ent ID: RC50								

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtal/. A	Prep	5035			4g1 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		50	5 u L	5 u L	199940	10/63/61 66:3T	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			Tg6 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/63/61 19:23	. 1A	ECL 1
		InVWU ent ID: RC50								

# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

**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
Nbtal/. A	Prep	5035			5g14 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		500	5 u L	5 u L	199940	10/63/61 63:06	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			10g7 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		10			199964	10/63/61 1T:03	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			4g72 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		50	5 u L	5 u L	19T371	10/64/61 60:59	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			Tg11 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		10			199964	10/63/61 1T:62	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			4g79 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	199T06	10/62/61 06:16	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			Tg11 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		10			199964	10/63/61 60:62	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			5g13 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	199T06	10/62/61 06:35	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			10g21 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/63/61 60:25	. 1A	ECL 1
		InVWU ent ID: RC50								

# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

**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
Nbtal/. A	Prep	5035			7g157 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		50	5 u L	5 u L	19T371	10/64/61 61:61	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			10g70 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		5			199964	10/63/61 61:02	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			4g11 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		500	5 u L	5 u L	19T371	10/64/61 61:25	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			5g90 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		5			199964	10/63/61 61:65	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			4g41 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	19T094	10/65/61 1T:11	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			Tg17 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/63/61 61:25	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			5g15T y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	19T094	10/65/61 1T:35	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			Tg52 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/63/61 66:05	. 1A	ECL 1
		InVWU ent ID: RC50								

# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

**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
Nbtal/. A	Prep	5035			3g17 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	19T094	10/65/61 1T:59	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			4gT y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/63/61 66:65	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			4g07 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		100	5 u L	5 u L	19T094	10/65/61 60:66	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			5gT1 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		10			199964	10/63/61 66:24	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			7g55 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		100	5 u L	5 u L	19T094	10/65/61 60:24	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			TgT y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		60			199964	10/63/61 63:04	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			4g23 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		100	5 u L	5 u L	19T094	10/64/61 01:03	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC	mA		3g4 y	10 u L	199710	10/66/61 17:21	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx	mA	1			19T392	10/64/61 12:20	f J3K	ECL 1
		InVWU ent ID: RC29								

# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

**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
Nbtal/. A	Prep	5035			3g46 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	19T094	10/65/61 66:19	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			2g51 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/62/61 03:13	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			5g05 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		600	5 u L	5 u L	199T06	10/62/61 02:33	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			7g74 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		5			199964	10/62/61 03:32	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			5g29 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		600	5 u L	5 u L	199T06	10/62/61 02:57	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC	DL		5g91 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx	DL	65			19T392	10/64/61 14:06	f J3K	ECL 1
		InVWU ent ID: RC29								

**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
Nbtal/. A	Prep	5035			5g123 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		600	5 u L	5 u L	199T06	10/62/61 05:60	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC	DL		5g86 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx	DL	50			19T392	10/64/61 14:63	f J3K	ECL 1
		InVWU ent ID: RC29								



# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

**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
Nbtal/. A	Prep	5035			5g12 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		600	5 u L	5 u L	199T06	10/62/61 05:22	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			5g15 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		5			199964	10/62/61 02:37	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			2g17 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	19T094	10/65/61 66:21	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			5g12 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/62/61 02:57	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			5g155 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	19T094	10/65/61 63:05	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			2g14 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		5			199964	10/62/61 05:19	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			7g14 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		50	5 u L	5 u L	19T371	10/64/61 19:21	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			4g14 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		5			199964	10/62/61 05:3T	. 1A	ECL 1
		InVWU ent ID: RC50								

# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

**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
Nbtal/. A	Prep	5035			4g19 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		100	5 u L	5 u L	19T371	10/64/61 1T:05	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			7g9 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		5			199964	10/62/61 04:00	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			5g167 y	5 u L	199666	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		100	5 u L	5 u L	19T371	10/64/61 60:32	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			9g13 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		5			199964	10/62/61 04:61	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5035			2g157 y	5 y	199661	10/61/61 16:5T	Z8L3	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	19T094	10/64/61 00:3T	P1m	ECL 6
		InVWU ent ID: RC54								
Silica Rel CleanUp	Prep	3550C SRC			6g5T y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/62/61 04:26	. 1A	ECL 1
		InVWU ent ID: RC50								

**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
Nbtal/. A	Prep	5030C			2g17 y	5 u L	197969	10/60/61 0T:50	f 1MC	ECL 6
Nbtal/. A	AnalVW	. H NPG-Rx		1	5 y	5 u L	197790	10/60/61 17:17	ATYE	ECL 6
		InVWU ent ID: RC1								
Silica Rel CleanUp	Prep	3550C SRC			5g03 y	10 u L	199767	10/66/61 19:69	. 5Z3	ECL 1
Silica Rel CleanUp	AnalVW	. H NPG-Dx		1			199964	10/62/61 07:06	. 1A	ECL 1
		InVWU ent ID: RC50								

# Lab Chronicle

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

**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
Nbtal/. A	AnalstVW	. H NPG-Rx		1	5 u L	5 u L	197446	10/1T/61 63:30	P1m	ECL 6
InVWU ent ID: RC65										

## Laboratory References:

ECL 1 = EUroVhWCalVcience LLC Lincoln, 7220 Lincoln Has, Rarden Rrove, CA T6921, NEL (712)9T5-52T2

ECL 6 = EUroVhWCalVcience LLC Lau pVön, 7225 Lau pVön Ave, Rarden Rrove, CA T6921, NEL (712)9T5-52T2

Accreditation/Certification Summary

Client: Cardno, Inc

Job ID: 570-72681-P

Site: x MonA obil 3DCS 04P1178010

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	Estate	C9P8-P6	P0-P2-22

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

# Method Summary

Client: Cardno, Inc  
Project/Site: ExoonMobil ADC/0312274020

Job ID: 570-76942-1

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	ECL 6
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	ECL 1
3550C SGC	8ltrasonic Extraction	SW924	ECL 1
5030C	PurUe and Tray	SW924	ECL 6
5035	Closed Sgstem PurUe and Tray	SW924	ECL 6

## Protocol References:

NWTPH p Northwest Total Petroleum Hgdrocarbon

SW924 p "Test Methods " or EFaluatinU Solid Waste, Phgsical/Chemical Methods", Third Edition, NoFember 1v94 And Its 8 ydates.

## Laboratory References:

ECL 1 p Eurofins Calscience LLC Lincoln, 7220 Lincoln Wag, Garden GroFe, CA v6921, TEL (712)9v5-52v2

ECL 6 p Eurofins Calscience LLC Lamyson, 7225 Lamyson AFe, Garden GroFe, CA v6921, TEL (712)9v5-52v2

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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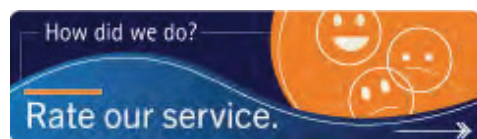
---

**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)

Site Name  
Provide MRN  
Retail Project  
Major Project  
Project Name

**Everett Bulk Plant**  
**Projects**  
Tel: ADC / 03144760202

CHAIN OF CUSTODY RECORD

DATE 10/13/2021

PAGE: 1 OF 2

**ExxonMobil Engr** **Jennifer Sedlachek**

<b>LABORATORY CLIENT</b>						<b>P O 0314476040 Agreement# A2604415</b>
<b>Cardino</b>						
<b>ADDRESS:</b>						
<b>309 South Cloverdale Street Unit A13</b>						
<b>CITY:</b>						
<b>Seattle, WA 98108</b>						
<b>TEL</b>	<b>206-510-5855</b>				<b>FAX</b>	
					<b>N/A</b>	
<b>robert.thompson@cardino.com</b>						
<b>GLOBAL ID # COELT LOG CODE:</b>						
<b>PROJECT CONTACT:</b>						
<b>Robert Thompson</b>						
<b>SAMPLER(S): Paul Prevoui, Cameron Penner-Ash, John Considine</b>						
<b>LAB USE ONLY</b>						
<div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div>						
<b>COOLER RECEIPT</b>						
<b>Temp =</b>						<b>°C</b>

		SPECIAL INSTRUCTIONS	
<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		SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)	
<input type="checkbox"/> RWQCB REPORTING		<input checked="" type="checkbox"/> ARCHIVE SAMPLES UNTIL ____ / ____ / ____	
REQUESTED ANALYSIS		SOLID LINE LIQUID AND GASEOUS	

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](mailto:laina.cole@cardno.com), [robert.thompson@cardno.com](mailto:robert.thompson@cardno.com)  
 All units in mg/kg.  
 Report to: [laina.cole@cardno.com](mailto:laina.cole@cardno.com), [robert.thompson@cardno.com](mailto:robert.thompson@cardno.com), and [cameron.penner-ash@cardno.com](mailto:cameron.penner-ash@cardno.com)

[illegible]

Relinquished by (Signature)	Received by (Signature)	Date & Time:
Paul Prevou	FedEx	10/13 /2021 4:15:00 PM
Relinquished by (Signature)	Received by (Signature)	Date & Time:
Paul Prevou	Yanetel	10/14/21 10:00
Relinquished by (Signature)	Received by (Signature)	Date & Time:

~~COC1031447 - SOIL COC 210009 to 210013 use 1116~~

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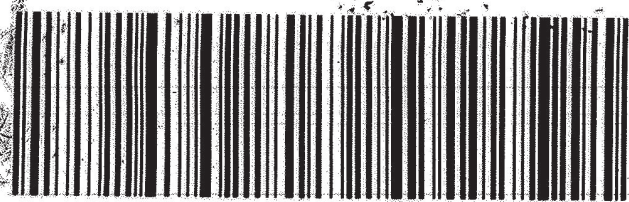
570-72864 Waybill

FedEx  
TRK# 8158 1726 1190  
0215

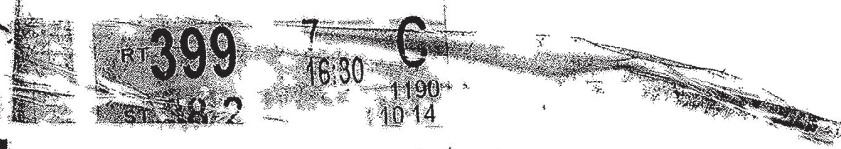
THU - 14 OCT 4:30P  
STANDARD OVERNIGHT

92 APVA

NSR AHS  
92841  
CA-US SNA



56DJ3/148A/FE4A



USTODY SEAL



ENVIRONMENTAL SAMPLING SUPPLY  
essvial.com 800-233-2425

Date: 10/13/21

Signature: [Handwritten Signature]

## Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-72681-/

**Login Number: 72864**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Ramos, Maribel**

Question	Answer	Comment
Radioactivity wasn't checked or is < 100 back. round 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 HAs)	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 volume for all requested analyses, including retested DS-DSSs	True	
Containers requiring zero headspace have no headspace or bubble is < 8mm (1/4")	True	
Multiphase 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  
1 roectj/ ite: SEEnx obil MDCj028AA760A0

Job ID: 570-72066-8

**Job ID: 570-76011-3**

**Laboratory: Eurofins Calscience LLC**

## Narrative

### Job Narrative 570-76011-3

#### Comments

3 o additional co4 4 entNm

#### Receipt

s. e Na4 TleNh ere received on 80j85jw0w8 80:80 Mx mv nleNNot. erh iNe noted below, t. e Na4 TleNarriped in Uood condition, and h. ere required, TroTerlu TreNerped and on icems. e te4 Teratqre oyt. e cooler at receiTit h aNwrfh° Cm

#### GC VOA

x et. od 3 Ws 1 H-GE InNqyicent Na4 Tle polq4 e h aNapailable to Teryor4 a 4 atriENTikej4 atriENTike dqTticate (x / jx / D) aNNbciated h it. batc. 8L777Lms. e laboratoru control Na4 Tle (9C/ ) h aNTeryor4 ed in dqTticate to Tropide TreciNon data yor t. iNbatc. m

x et. od 3 Ws 1 H-GE InNqyicent Na4 Tle polq4 e h aNapailable to Teryor4 a 4 atriENTikej4 atriENTike dqTticate (x / jx / D) aNNbciated h it. batc. 8L76w7ms. e laboratoru control Na4 Tle (9C/ ) h aNTeryor4 ed in dqTticate to Tropide TreciNon data yor t. iNbatc. m

x et. od 3 Ws 1 H-GE InNqyicent Na4 Tle polq4 e h aNapailable to Teryor4 a 4 atriENTikej4 atriENTike dqTticate (x / jx / D) aNNbciated h it. batc. 8LL025ms. e laboratoru control Na4 Tle (9C/ ) h aNTeryor4 ed in dqTticate to Tropide TreciNon data yor t. iNbatc. m

x et. od 3 Ws 1 H-GE / qrrouate recoperu yor t. e yolloh inUNa4 Tle h aNoqtNde control li4 itN / -5-9w(570-72066-86)mSpidence oy4 atriE interyurence iNTreNent; t. ereyore, re-eBtraction andjor re-analUNNh aNnot Teryor4 edm

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x et. od 3 Ws 1 H-GE s. e laboratoru control Na4 Tle (9C/ ) h aNTeryor4 ed in dqTticate to Tropide TreciNon data yor t. iNbatc. m  
InNqyicent Na4 Tle polq4 e h aNapailable to Teryor4 a 4 atriENTikej4 atriENTike dqTticate (x / jx / D) aNNbciated h it. analutical batc. 570-8Lf 278m

3 o additional analutical or gqalitu iNNqenH ere noted, ot. er t. an t. oNe deNcribed abope or in t. e DeynitionNGloNaru TaUem

#### GC Semi VOA

3 o analutical or gqalitu iNNqenH ere noted, ot. er t. an t. oNe deNcribed in t. e DeynitionNGloNaru TaUem

#### General Chemistry

3 o analutical or gqalitu iNNqenH ere noted, ot. er t. an t. oNe deNcribed in t. e DeynitionNGloNaru TaUem

#### Organic Prep

3 o analutical or gqalitu iNNqenH ere noted, ot. er t. an t. oNe deNcribed in t. e DeynitionNGloNaru TaUem

#### VOA Prep

3 o analutical or gqalitu iNNqenH ere noted, ot. er t. an t. oNe deNcribed in t. e DeynitionNGloNaru TaUem

# Detection Summary

2 10 e 2 n tai or li d

Job ID: 570-76099-4

, tot d d / SSoi E ob Gx D2 064MM790M0

## Client Sample ID: S-2.5-H1

## Lab Sample ID: 570-73066-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTE oet HGs ni G	490		( 5	) GP G	5	A	NW3, DS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-5-H1

## Lab Sample ID: 570-73066-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTDCTI 1s ni G	000		56	) GP G	40	A	NW3, DS	j Cdn ml 1 2 1 ni gK
3, nTE oet HGs ni G	4600		56	) GP G	40	A	NW3, DS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-7.5-H1

## Lab Sample ID: 570-73066-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTmnToDI R M246u	4M		40	) GP G	50	A	NW3, mS	3oen FNx
3, nTE oet HGs ni G	690		40	) GP G	4	A	NW3, DS	j Cdn ml 1 2 1 ni gK
3, nTDCTI 1s ni G - Dp	M00		400	) GP G	40	A	NW3, DS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-10-H1

## Lab Sample ID: 570-73066-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTE oet HGs ni G	65		( 0	) GP G	4	A	NW3, DS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-2.5-I1

## Lab Sample ID: 570-73066-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTE oet HGs ni G	( 0		58	) GP G	4	A	NW3, DS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-5-I1

## Lab Sample ID: 570-73066-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTmnToDI R M246u	05		4(	) GP G	50	A	NW3, mS	3oen FNx
3, nTDCTI 1s ni G	5700		( f	) GP G	5	A	NW3, DS	j Cdn ml 1 2 1 ni gK
3, nTE oet HGs ni G	M0		( f	) GP G	5	A	NW3, DS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-7.5-I1

## Lab Sample ID: 570-73066-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTmnToDI R M246u	46		084	) GP G	4	A	NW3, mS	3oen FNx
3, nTDCTI 1s ni G	690		((	) GP G	4	A	NW3, DS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-10-I1

## Lab Sample ID: 570-73066-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTE oet HGs ni G	69		4M	) GP G	4	A	NW3, DS	j Cdn ml 1 2 1 ni gK

3hCT DI d d d i j g ) ) nty aol Ti oeCd'gal tnaCdhI ) Cn1d Tetl Tg18

/ gtoLCT 2 n1TdCi dl pp2



# Detection Summary

2 10 e 2 ntai or li d  
, tot ddp @ : / SSoi E obCx D2 064MM790M0

Job ID: 570-76099-4

## Client Sample ID: S-2.5-J1

## Lab Sample ID: 570-73066-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, 10nTDCTI 1s ni G	( 400		5f	) GP G	40	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK
3, 10nTE oet HGs ni G	5700		5f	) GP G	40	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK

## Client Sample ID: S-5-J1

## Lab Sample ID: 570-73066-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, 10nTmnToCI R M246u	5f 0		400	) GP G	500	A	NW3, 10-mS	3oetnNx
3, 10nTDCTI 1s ni G	9( 00		90	) GP G	40	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK
3, 10nTE oet HGs ni G	M00		90	) GP G	40	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK

## Client Sample ID: S-7.5-J1

## Lab Sample ID: 570-73066-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, 10nTmnToCI R M246u	f 80		08 M	) GP G	4	A	NW3, 10-mS	3oetnNx
3, 10nTDCTI 1s ni G	45		98	) GP G	4	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK

## Client Sample ID: S-2.5-K1

## Lab Sample ID: 570-73066-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, 10nTmnToCI R M246u	070		M7	) GP G	( 00	A	NW3, 10-mS	3oetnNx
3, 10nTDCTI 1s ni G	45000		59	) GP G	40	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK
3, 10nTE oet HGs ni G	6900		59	) GP G	40	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK

## Client Sample ID: S-5-K1

## Lab Sample ID: 570-73066-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, 10nTmnToCI R M246u	9( 0		50	) GP G	( 50	A	NW3, 10-mS	3oetnNx
3, 10nTDCTI 1s ni G	9( 00		90	) GP G	40	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK
3, 10nTE oet HGs ni G	440		980	) GP G	4	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK

## Client Sample ID: S-7.5-K1

## Lab Sample ID: 570-73066-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, 10nTmnToCI R M246u	48		08M5	) GP G	4	A	NW3, 10-mS	3oetnNx

## Client Sample ID: S-2.5-L2

## Lab Sample ID: 570-73066-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, 10nTmnToCI R M246u	07		4(	) GP G	50	A	NW3, 10-mS	3oetnNx
3, 10nTDCTI 1s ni G	5M00		57	) GP G	40	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK
3, 10nTE oet HGs ni G	4M00		57	) GP G	40	A	NW3, 10-DS	j 00n ml 1 2 1 ni gK

## Client Sample ID: S-5-L2

## Lab Sample ID: 570-73066-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, 10nTmnToCI R M246u	070		440	) GP G	500	A	NW3, 10-mS	3oetnNx

3hC DI d d0i j g) ) nty aol Ti oeCd'gal tna0dhl ) 0n1d Tetl Tg18

/ gtoLCT 2 n1TdCi dl pp2

# Detection Summary

2 10 e 2 ntai or li d

Job ID: 570-76099-4

, tot ddp @ : / SSoi E obCx D2 064MM790M0

## Client Sample ID: S-5-L2 (Continued)

## Lab Sample ID: 570-73066-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTDCTI 1s ni G	f ( 00		5M	) GP G	40	A	NW3, nDS	j Cdn ml 1 2 1 ni gK
3, nTE oet HGs ni G	f ( 00		5M	) GP G	40	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-7.5-L2

## Lab Sample ID: 570-73066-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTE oet HGs ni G	4(		98	) GP G	4	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-2.5-M1

## Lab Sample ID: 570-73066-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI R M2 46u	M0		08 4	) GP G	4	A	NW3, nMS	3oen FNx
3, nTDCTI 1s ni G	M00		( O	) GP G	5	A	NW3, nDS	j Cdn ml 1 2 1 ni gK
3, nTE oet HGs ni G	6( 0		( O	) GP G	5	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-5-M1

## Lab Sample ID: 570-73066-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI R M2 46u	( 000		900	) GP G	( 500	A	NW3, nMS	3oen FNx
3, nTDCTI 1s ni G	M 00		9(	) GP G	5	A	NW3, nDS	j Cdn ml 1 2 1 ni gK
3, nTE oet HGs ni G	O40		9(	) GP G	5	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-7.5-M1

## Lab Sample ID: 570-73066-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI R M2 46u	( 5		M5	) GP G	( 0	A	NW3, nMS	3oen FNx

## Client Sample ID: Trip Blank

## Lab Sample ID: 570-73066-21

No DI d deoi T8

## Client Sample ID: S-15-B9A

## Lab Sample ID: 570-73066-22

No DI d deoi T8

## Client Sample ID: S-2.5-M3

## Lab Sample ID: 570-73066-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI R M2 46u	( 700		560	) GP G	( 500	A	NW3, nMS	3oen FNx
3, nTE oet HGs ni G	f 60		( O	) GP G	5	A	NW3, nDS	j Cdn ml 1 2 1 ni gK
3, nTDCTI 1s ni G - Dp	49000		( 00	) GP G	50	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-5-M3

## Lab Sample ID: 570-73066-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI R M2 46u	600		O4	) GP G	500	A	NW3, nMS	3oen FNx
3, nTE oet HGs ni G	660		58	) GP G	4	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

3hCT DI d deoi j g) ) nty aol Ti oeCd'gal tnaOdhl ) Cdn1e Tetl Tg18

/ gtoLCT 2 n1TdCi dl pp2

# Detection Summary

2 10 e 2 nta i or li d

, tot d d p @ : / SSoi E ob Cx D2 P64MM790M0

Job ID: 570-76099-4

## Client Sample ID: S-5-M3 (Continued)

## Lab Sample ID: 570-73066-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT DCTI 1s ni G - Dp	( 900		59	) GP G	40	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-7.5-M3

## Lab Sample ID: 570-73066-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI P M2 46u	49		087M	) GP G	4	A	NW3, nMS	3oen FNx
3, nT DCTI 1s ni G	( M0		( 6	) GP G	4	A	NW3, nDS	j Cdn ml 1 2 1 ni gK
3, nT E oet HGs ni G	( f 0		( 6	) GP G	4	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-10-M3

## Lab Sample ID: 570-73066-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI P M2 46u	( 0		0877	) GP G	4	A	NW3, nMS	3oen FNx
3, nT DCTI 1s ni G	C60		45	) GP G	4	A	NW3, nDS	j Cdn ml 1 2 1 ni gK
3, nT E oet HGs ni G	4400		45	) GP G	4	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-2.5-N4

## Lab Sample ID: 570-73066-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI P M2 46u	(( 00		M60	) GP G	( 000	A	NW3, nMS	3oen FNx
3, nT DCTI 1s ni G	7700		MM	) GP G	5	A	NW3, nDS	j Cdn ml 1 2 1 ni gK
3, nT E oet HGs ni G	M#0		MM	) GP G	5	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-5-N4

## Lab Sample ID: 570-73066-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI P M2 46u	4900		M7	) GP G	( 00	A	NW3, nMS	3oen FNx
3, nT E oet HGs ni G	54		585	) GP G	4	A	NW3, nDS	j Cdn ml 1 2 1 ni gK
3, nT DCTI 1s ni G - Dp	MM00		55	) GP G	40	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-7.5-N4

## Lab Sample ID: 570-73066-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI P M2 46u	( 0		78	) GP G	( 0	A	NW3, nMS	3oen FNx
3, nT DCTI 1s ni G - s x	690		40	) GP G	4	A	NW3, nDS	j Cdn ml 1 2 1 ni gK
3, nT E oet HGs ni G - s x	400		40	) GP G	4	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

## Client Sample ID: S-10-N4

## Lab Sample ID: 570-73066-30

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT mnToCI P M2 46u	486		0850	) GP G	4	A	NW3, nMS	3oen FNx
3, nT DCTI 1s ni G	M90		6M	) GP G	5	A	NW3, nDS	j Cdn ml 1 2 1 ni gK
3, nT E oet HGs ni G	C 0		6M	) GP G	5	A	NW3, nDS	j Cdn ml 1 2 1 ni gK

3hCT DI d d d i j g ) ) nty aol Ti oeCd'gal tnaCdhI ) Cn1d TetI Tg18

/ gtoLCT 2 n1TdCi dl pp2

# Client Sample Results

2 10 e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Cx D2 P064MM790M0

Job ID: 570-76099-4

**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
A, 3 n. mn. o 10 l g M246K	10		08TH	s RNR	G	40P4( P4 46:T0	40P4( P4 4( :57	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	866		56 - 856			86010 8 823 6	86010 8 813:	8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. DC. l 1) ni R	10		T5	s RNR	G	40P7P4 4M5T	40P7P4 06:45	5
<b>TPH as Motor Oil Range</b>	<b>160</b>		T5	s RNR	G	40P7P4 4M5T	40P7P4 06:45	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qd Qat ne (Surr)	861		56 - 856			860 : 0 8 843/	860 s0 8 6235	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
A, 3 n. mn. o 10 l g M246K	10		08TM	s RNR	G	40P4( P4 46:T0	40P4( P4 T0:T4	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86/		56 - 856			86010 8 823 6	86010 8 / 63 8	8

## 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>900</b>		56	s RNR	G	40P7P4 4M5T	40P7P4 06:65	40
<b>TPH as Motor Oil Range</b>	<b>1300</b>		56	s RNR	G	40P7P4 4M5T	40P7P4 06:65	40
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qd Qat ne (Surr)	882		56 - 856			860 : 0 8 843/	860 s0 8 6235	86

**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
<b>TPH as Gasoline (C4-C13)</b>	<b>140</b>		40	s RNR	G	40P4( P4 46:T0	40P9P4 45:T6	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	5s		56 - 856			86010 8 823 6	860 90 8 853 2	56

## 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 Motor Oil Range</b>	<b>360</b>		40	s RNR	G	40P7P4 4M5T	40P7P4 06:59	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qd Qat ne (Surr)	86:		56 - 856			860 : 0 8 843/	860 s0 8 6239	8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>TPH as Diesel Range</b>	<b>4000</b>		400	s RNR	G	40P7P4 4M5T	40P7P4 47:05	40

/ utofC. 2 n1 dCi dl LL2

# Client Sample Results

21 e 2 nta i or li d

Job ID: 570-76099-4

, tot d e / SSoi E obCx D2 P64M790M

**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**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	8/ 6		56 - 856	860 : 0 8 843/	860 s0 8 8 : 35	86

**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**

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. mn. oCl gM246K	0D		0877	s RNR	G	40F( FT4 46:T0	40F( FT4 T0:M5	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86s		56 - 856			86010 8 823 6	86010 8 / 6345	8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. DC. l 1) ni R	0D		T0	s RNR	G	40F7F4 4M5T	40F7F4 0M47	4
TPH as Motor Oil Range	35		T0	s RNR	G	40F7F4 4M5T	40F7F4 0M47	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	864		56 - 856			860 : 0 8 843/	860 s0 8 8 643:	8

**Client Sample ID: S-2.5-I1**

**Lab Sample ID: 570-73066-5**

**Date Collected: 10/13/21 14:25**

**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
A, 3 n. mn. oCl gM246K	0D		0870	s RNR	G	40F( FT4 46:T0	40F( FT4 T4:40	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86/		56 - 856			86010 8 823 6	86010 8 / 836	8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. DC. l 1) ni R	0D		58	s RNR	G	40F7F4 4M5T	40F7F4 0M67	4
TPH as Motor Oil Range	20		58	s RNR	G	40F7F4 4M5T	40F7F4 0M67	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	862		56 - 856			860 : 0 8 843/	860 s0 8 8 643:	8

**Client Sample ID: S-5-I1**

**Lab Sample ID: 570-73066-6**

**Date Collected: 10/13/21 14:30**

**Matrix: Solid**

**Date Received: 10/15/21 08:19**

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	95		4T	s RNR	G	40F( FT4 46:T0	40F9F4 45:M7	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 5		56 - 856			86010 8 823 6	860 90 8 853:	56

/ utofC. 2 n1 dCi dl LL2

# Client Sample Results

2 10 e 2 nta i or li d

, tot d e p @ : / SSoi E ob Cx D2 064MM790M0

Job ID: 570-76099-4

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-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		TH	s RNR	G	40F7F4 4M5T	40F7F4 0M59	5
TPH as Motor Oil Range	440		TH	s RNR	G	40F7F4 4M5T	40F7F4 0M59	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	865		56 - 856			860 : 0 8 843/	860 s0 8 6439	5

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	13		084	s RNR	G	40F7F4 46:T0	40F7F4 T4:6M	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		56 - 856			86010 8 823 6	86010 8 / 8324	8

## Method: NWTPH-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		TT	s RNR	G	40F7F4 4M5T	40F7F4 05:49	4
A, 3 n. E oet OG) ni R	ND		TT	s RNR	G	40F7F4 4M5T	40F7F4 05:49	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	86:		56 - 856			860 : 0 8 843/	860 s0 8 6539	8

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. mn. o1C1 g2M246K	ND		08M	s RNR	G	40F7F4 46:T0	40F7F4 T4:5H	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	861		56 - 856			86010 8 823 6	86010 8 / 83s	8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. DC. I 1) ni R	ND		4M	s RNR	G	40F7F4 4M5T	40F7F4 05:69	4
TPH as Motor Oil Range	36		4M	s RNR	G	40F7F4 4M5T	40F7F4 05:69	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	862		56 - 856			860 : 0 8 843/	860 s0 8 6539	8

Client Sample ID: S-2.5-J1

Date Collected: 10/13/21 14:45

Date Received: 10/15/21 08:19

Lab Sample ID: 570-73066-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. mn. o1C1 g2M246K	ND		080	s RNR	G	40F7F4 46:T0	40F7F4 TT:TT	4

/ utofC. 2 n1 dCi dl LL2



# Client Sample Results

2101 e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Qx D2 P064MM790M0

Job ID: 570-76099-4

**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)	: 9		56 - 856	860810 8 823 6	860810 8 / / 3 /	8
<b>Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup</b>						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
TPH as Diesel Range	2100		5H	s RPNR	G 40FT7FT4 4( :60	40FT7FT4 0H6H 40
TPH as Motor Oil Range	5700		5H	s RPNR	G 40FT7FT4 4( :60	40FT7FT4 0H6H 40
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	829		56 - 856	860 : 0 8 8136	860 s0 8 6s3s	86

**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**

<b>Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)</b>						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
TPH as Gasoline (C4-C13)	580		400	s RPNR	G 40FT4 FT4 46:T0	40FT4FT4 46:5( 500
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88:		56 - 856	860810 8 823 6	860 80 8 8231	566
<b>Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup</b>						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
TPH as Diesel Range	6200		90	s RPNR	G 40FT7FT4 4( :60	40FT7FT4 0( :6H 40
TPH as Motor Oil Range	490		90	s RPNR	G 40FT7FT4 4( :60	40FT7FT4 0( :6H 40
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	862		56 - 856	860 : 0 8 8136	860 s0 8 613s	86

**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**

<b>Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)</b>						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
TPH as Gasoline (C4-C13)	8.0		08TM	s RPNR	G 40FT4 FT4 46:T0	40FT4FT4 06:56 4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		56 - 856	860810 8 823 6	860 80 8 6232	8
<b>Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) - Silica Gel Cleanup</b>						
Analyte	Result	Qualifier	RL	Unit	D	Dil Fac
TPH as Diesel Range	15		98	s RPNR	G 40FT7FT4 4( :60	40FT7FT4 0( :5H 4
A, 3 n. E oet OG) ni R	0D		98	s RPNR	G 40FT7FT4 4( :60	40FT7FT4 0( :5H 4
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	1:		56 - 856	860 : 0 8 8136	860 s0 8 613s	8

/ utofC. 2 n1 dCi dl LL2

# Client Sample Results

21 e 2 nta i o r l i d  
, t o d d e p @ : / S S o i E o b C x D 2 P 6 4 M M 7 9 0 M 0

Job ID: 570-76099-4

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	970		M	s RNR	G	40F4 FT4 46:TO	40F4 FT4 09:M	T00
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	:		56 - 856			86010 8 823 6	860 80 8 6938	/ 66

## Method: NWTPH-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		59	s RNR	G	40F7 FT4 4(: :60	40F7 FT4 40:4H	40
TPH as Motor Oil Range	3600		59	s RNR	G	40F7 FT4 4(: :60	40F7 FT4 40:4H	40
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Q t Q a t n e (Surr)	864		56 - 856			860 : 0 8 8136	860 s0 8 863s	86

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

## 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	s RNR	G	40F4 FT4 46:TO	40F4 FT4 07:05	T50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	:		56 - 856			86010 8 823 6	860 80 8 6: 35	/ 56

## Method: NWTPH-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		90	s RNR	G	40F7 FT4 4(: :60	40F7 FT4 4M5(	40
TPH as Motor Oil Range	110		90	s RNR	G	40F7 FT4 4(: :60	40F7 FT4 40:67	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Q t Q a t n e (Surr)	868		56 - 856			860 : 0 8 8136	860 s0 8 863:	8
n-7 Q t Q a t n e (Surr)	869		56 - 856			860 : 0 8 8136	860 s0 8 8431	86

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

## 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		08V	s RNR	G	40F4 FT4 46:TO	40F4 FT4 TT:M	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	ss		56 - 856			86010 8 823 6	86010 8 / / 3:	8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. DC. I 1) ni R	⊗D		H8F	s RNR	G	40F7 FT4 4(: :60	40F7 FT4 40:59	4
A, 3 n. E o e t O G) ni R	⊗D		H8F	s RNR	G	40F7 FT4 4(: :60	40F7 FT4 40:59	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Q t Q a t n e (Surr)	86:		56 - 856			860 : 0 8 8136	860 s0 8 8639	8

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# Client Sample Results

21 October 2021

Job ID: 570-76099-4

, total of 3 / 5501 E ob 0x D2 064M790M0

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		4T	s RNR	G	40F7F4 4( :60	40F9F4 49:40	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		56 - 856			86010 8 823 6	860 90 8 8936	56

## Method: NWTPH-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	s RNR	G	40F7F4 4( :60	40FHF4 44:49	40
TPH as Motor Oil Range	1400		57	s RNR	G	40F7F4 4( :60	40FHF4 44:49	40
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	865		56 - 856			860 : 0 8 8136	860 s0 8 8839	86

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		440	s RNR	G	40F7F4 4( :60	40F4F4 46:44	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	855	S8+	56 - 856			86010 8 823 6	860 80 8 8238	566

## Method: NWTPH-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		5M	s RNR	G	40F7F4 4( :60	40FHF4 44:69	40
TPH as Motor Oil Range	8200		5M	s RNR	G	40F7F4 4( :60	40FHF4 44:69	40
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	88s		56 - 856			860 : 0 8 8136	860 s0 8 8839	86

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
A, 3 n. mn. o 0l 02M246K	0D		08F4	s RNR	G	40F7F4 4( :60	40F9F4 45:00	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	19		56 - 856			86010 8 823 6	860 90 8 8536	8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. DC. l 1) ni R	0D		98F	s RNR	G	40F7F4 4( :60	40FHF4 44:59	4
TPH as Motor Oil Range	12		98F	s RNR	G	40F7F4 4( :60	40FHF4 44:59	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	14		56 - 856			860 : 0 8 8136	860 s0 8 8839	8

/ utofC. 2 n1 dCi dl LL2

# Client Sample Results

2101 e 2 nta i or li d

, tot d e p @ : / SSoi E ob Cx D2 P64M790M0

Job ID: 570-76099-4

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		0874	s RNR	G	40F7F4 4( :60	40F7F4 4T:45	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	15		56 - 856			86010 8 823 6	860 60 8 663:	8

## Method: NWTPH-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		T(	s RNR	G	40F7F4 4( :60	40F7F4 4T:45	5
TPH as Motor Oil Range	320		T(	s RNR	G	40F7F4 4( :60	40F7F4 4T:45	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	11		56 - 856			860 : 0 8 8136	860 s0 8 8/ 35	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		900	s RNR	G	40F7F4 4( :60	40F7F4 4T:45	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	14		56 - 856			86010 8 823 6	860 80 8 843 2	/ 566

## Method: NWTPH-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		9T	s RNR	G	40F7F4 4( :60	40F7F4 4T:65	5
TPH as Motor Oil Range	910		9T	s RNR	G	40F7F4 4( :60	40F7F4 4T:65	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	864		56 - 856			860 : 0 8 8136	860 s0 8 8/ 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		M5	s RNR	G	40F7F4 4( :60	40F7F4 05:56	T0
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	18		56 - 856			86010 8 823 6	860 80 8 6532	/ 6

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. DC. I 1) ni R	ND		98	s RNR	G	40F7F4 4( :60	40F7F4 4T:55	4
A, 3 n. E oet OG) ni R	ND		98	s RNR	G	40F7F4 4( :60	40F7F4 4T:55	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	14		56 - 856			860 : 0 8 8136	860 s0 8 8/ 35	8

/ utofC. 2 n1 dCi dl LL2

# Client Sample Results

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, tot d e p Q : / SSoi E obCx D2 P64MM790M0

Job ID: 570-76099-4

## 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
A, 3 n. mn. oCl g M246K	ND		400	uRRL			40P4 (P4 T6:5)	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59		56 - 856				86P10 8 / 231	8

## 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
A, 3 n. mn. oCl g M246K	ND		487	s RNR	G	40P4 (P4 46:T0	40P4P4 4T:67	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	1		56 - 856			86P10 8 823 6	86P 8P 8 8 / 32	8

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
A, 3 n. DC. l 1) ni R	ND		5M	s RNR	G	40P7P4 4( :60	40P4P4 46:45	4
A, 3 n. E oet OG) ni R	ND		5M	s RNR	G	40P7P4 4( :60	40P4P4 46:45	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat ne (Surr)	11		56 - 856			86P : 0 8 8136	86P s0 8 8235	8

## 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		560	s RNR	G	40P4 (P4 46:T0	40P4P4 4MM7	T500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	1s		56 - 856			86P10 8 823 6	86P 8P 8 843:	/ 566

### 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		T(	s RNR	G	40P7P4 4( :60	40P4P4 46:6M	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat ne (Surr)	86/		56 - 856			86P : 0 8 8136	86P s0 8 8234	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		T(0	s RNR	G	40P7P4 4( :60	40P4P4 45:4(	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat ne (Surr)	826		56 - 856			86P : 0 8 8136	86P s0 8 8531	56

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# Client Sample Results

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Job ID: 570-76099-4

**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		( 4	s RNR	G	40F4 46:10	40F4 46:65	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	868		56 - 856			860 10 8 823 6	860 80 8 823 5	566

## 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		58	s RNR	G	40F7 4 4( :60	40F7 4 46:56	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qd Qat ne (Surr)	866		56 - 856			860 : 0 8 813 6	860 s0 8 823 2	8

## 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		59	s RNR	G	40F7 4 4( :60	40F7 4 45:10	40
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qd Qat ne (Surr)	86s		56 - 856			860 : 0 8 813 6	860 s0 8 853 6	86

**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		087M	s RNR	G	40F4 46:10	40F0 4 04:69	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	826		56 - 856			860 10 8 823 6	860 60 8 683 9	8

## Method: NWTPH-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		T6	s RNR	G	40F7 4 4( :60	40F7 4 4M46	4
TPH as Motor Oil Range	280		T6	s RNR	G	40F7 4 4( :60	40F7 4 4M46	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qd Qat ne (Surr)	868		56 - 856			860 : 0 8 813 6	860 s0 8 843 2	8

**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		0877	s RNR	G	40F4 46:10	40F0 4 0T:00	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	18		56 - 856			860 10 8 823 6	860 60 8 6/ 36	8

## Method: NWTPH-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		45	s RNR	G	40F7 4 4( :60	40F7 4 4M6T	4
TPH as Motor Oil Range	1100		45	s RNR	G	40F7 4 4( :60	40F7 4 4M6T	4

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# Client Sample Results

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, tot d e p @ : / SSoi E ob Cx D2 P064MM790M0

Job ID: 570-76099-4

**Client Sample ID: S-10-M3**

**Date Collected: 10/14/21 08:55**

**Date Received: 10/15/21 08:19**

**Lab Sample ID: 570-73066-26**

**Matrix: Solid**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	862		56 - 856	860 : 0 8 8136	860 s0 8 843/	8

**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		M60	s RNR	G	40F7F4 4( :60	40F7F4 4M5T	T000
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	868		56 - 856			86010 8 823 6	860 80 8 8536	/ 666

## Method: NWTPH-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		MM	s RNR	G	40F7F4 4(:60	40F7F4 4M5T	5
TPH as Motor Oil Range	410		MM	s RNR	G	40F7F4 4(:60	40F7F4 4M5T	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat ne (Surr)	868		56 - 856			860 : 0 8 8136	860 s0 8 843/	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		M	s RNR	G	40F7F4 4( :60	40F7F4 40:49	T00
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 4		56 - 856			86010 8 823 6	860 80 8 8639	/ 66

## 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		56	s RNR	G	40F7F4 4( :60	40F7F4 45:44	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	868		56 - 856			860 : 0 8 8136	860 s0 8 8538	8

## 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	s RNR	G	40F7F4 4( :60	40F7F4 4H09	40
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	1s		56 - 856			860 : 0 8 8136	860 s0 8 8s39	86

**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		78H	s RNR	G	40F7F4 4( :60	40F7F4 0( :05	T0

/ utofC. 2 n1 dCi dl LL2

# Client Sample Results

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Job ID: 570-76099-4

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**Client Sample ID: S-7.5-N4**

**Lab Sample ID: 570-73066-29**

**Date Collected: 10/14/21 09:10**

**Matrix: Solid**

**Date Received: 10/15/21 08:19**

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		56 - 856			86010 8 823 6	860 80 8 6135	/ 6
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		40	s RNR	G	40F7F4 4( :60	40F7F4 4H:5	4
TPH as Motor Oil Range	190		40	s RNR	G	40F7F4 4( :60	40F7F4 4H:5	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Octadecane (Surr)	865		56 - 856			860 : 0 8 8136	860 s0 8 8s3 5	8

**Client Sample ID: S-10-N4**

**Lab Sample ID: 570-73066-30**

**Date Collected: 10/14/21 09:15**

**Matrix: Solid**

**Date Received: 10/15/21 08:19**

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TPH as Gasoline (C4-C13)	1.3		0.50	s RNR	G	40F7F4 46:TO	40F7F4 0T:TM	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		56 - 856			86010 8 823 6	860 60 8 6/ 3 4	8
Method: NWTPH-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		6M	s RNR	G	40F7F4 4( :TH	40F7F4 44:40	5
TPH as Motor Oil Range	980		6M	s RNR	G	40F7F4 4( :TH	40F7F4 44:40	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Octadecane (Surr)	100		56 - 856			860 : 0 8 813 s	860 s0 8 8836	5

/ utofC. 2 n1 dCi dl LL2

# 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

2101 e 2 nta i or li d

Job ID: 570-76099-4

, tot de p @ : / SSoi E obCx D2 P64M790M0

## 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
A, 3 n. mn. oCl g M246K	ND		0875	HsPRs			404NT4 47:0T	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01				/ 17 872 / 5:12	/

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	
A, 3 n. mn. oCl g M246K	T84T	T8455		HsPRs		404	77 - 4TG	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	///		01 - / 01					

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
A, 3 n. mn. oCl g M246K	T84T	T8454		HsPRs		444	77 - 4TG	N	49
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 15		01 - / 01						

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
A, 3 n. mn. oCl g M246K	ND		400	( sP )			404NT4 4G5T	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	03		01 - / 01				/ 17 872 / 6:02	/

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	
A, 3 n. mn. oCl g M246K	T460	T0NN		( sP )		NN	79 - 4TG	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	8/		01 - / 01					

/ ( touC. 2 n1 dCi dl ) ) 2



# QC Sample Results

2 10 e 2 nta i or li d

Job ID: 570-76099-4

, tot d e p @ : / SSoi E obCx D2 P64MM790M0

## 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
A, 3 n. mn. oCl g M246K	T460	T444		(sP)		NN	79 - 4TG	4	40
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	65		01 - / 01						

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
A, 3 n. mn. oCl g M246K	ND		T460	T070		(sP)		N7	9N - 46T		
Surrogate	%Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	68		01 - / 01								

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
A, 3 n. mn. oCl g M246K	ND		T460	T4T0		(sP)		400	9N - 46T	T	45
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	8/		01 - / 01								

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
A, 3 n. mn. oCl g M246K	ND		08T5	HsPRs			40FT4FT4 0T:M0	4
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	85		01 - / 01		/ 172/ 72/ 12:41	/		

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
A, 3 n. mn. oCl g M246K	ND		580	HsPRs			40FT4FT4 06:0M	T0
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	80		01 - / 01		/ 172/ 72/ 19:14	21		

/ ( touC. 2 n1 dCi dl ) ) 2

# QC Sample Results

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, tot de f @ : / SSoi E obCx D2 064MM790M0

Job ID: 570-76099-4

## 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		
A, 3 n. mn. oCl g M246K			T846	T86M7		HsPRs		440	77 - 4TG		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	/ 16		01 - / 01								

Lab Sample ID: LCSD 570-188035/36

Matrix: Solid

Analysis Batch: 188035

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

				Spike	LCSD	LCSD				%Rec.	RPD	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
A, 3 n. mn. oCl g M246K				T846	T86MN		HsPRs		440	77 - 4TG	0	49
Surrogate	%Recovery	LCSD	LCSD									
		Qualifier	Limits									
4-Bromofluorobenzene (Surr)	/ 16		01 - / 01									

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
A, 3 n. mn. oCl g M246K	ND		580	HsPRs			40FT4FT4 04:49	T0
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		01 - / 01				/ 172/ 72/ 1/ : 3	21

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
A, 3 n. mn. oCl g M246K			T846	T80T6		HsPRs		N5	77 - 4TG
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 20		01 - / 01						

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
A, 3 n. mn. oCl g M246K	T846	T8006		HsPRs		NM	77 - 4TG	4	49
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 2/		01 - / 01						

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# QC Sample Results

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Job ID: 570-76099-4

## 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
A, 3 n. mn. o 10 l g M246K	58		0875	HsPRs			40F7F4 4M4T	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58		01 - / 01				/ 172372 / / 4: 2	/

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
A, 3 n. mn. o 10 l g M246K	58		580	HsPRs			40F7F4 4M69	T0
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58		01 - / 01				/ 172372 / / 4: 93	21

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	
A, 3 n. mn. o 10 l g M246K	T846	T806		HsPRs		NM	77 - 4TG	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	// 2		01 - / 01					

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
A, 3 n. mn. o 10 l g M246K	T846	T804		HsPRs		NM	77 - 4TG	0	49
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 10		01 - / 01						

## 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
A, 3 n. DC. l 1f ni sl	58		580	HsPRs		40F7F4 4M5T	40F7F4 4NT4	4
A, 3 n. E oet L Qf ni sl	58		580	HsPRs		40F7F4 4M5T	40F7F4 4NT4	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 16		01 - / 01			/ 172572 / / 4: 02	/ 172572 / / 8: 2/	/

/ ( tou C. 2 n1 dCi dl ) 2

# QC Sample Results

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, tot d e p : / SSoi E ob Gx D2 064MM790M0

Job ID: 570-76099-4

## 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
A, 3 n. DC. I 1g 40-2 TCK	M00	M6T8		HsPRs		446	79 - 4T9
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	/ 13		01 - / 01				

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
A, 3 n. E oet L Gg 47-2 MKK	M00	M078		HsPRs		40T	74 - 46N
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	/ 10		01 - / 01				

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
A, 3 n. DC. I 1g 40-2 TCK	M00	M6T8		HsPRs		40G	79 - 4T9	5	T0
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	/ 12		01 - / 01						

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
A, 3 n. E oet L Gg 47-2 MKK	M00	M098		HsPRs		40T	74 - 46N	0	T0
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	/ 10		01 - / 01						

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
A, 3 n. DC. I 1g 40-2 TCK	4M0		MN	9078		HsPRs	o	NM	67 - 475
Surrogate	%Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	86		01 - / 01						

/ ( touC. 2 n1 dCi dl ) 2

# QC Sample Results

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, tot de f @ : / SSoi E obCx D2 P064MM790M0

Job ID: 570-76099-4

## 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
A, 3 n. DC. I 1g 40-2 TCK	4M0		56G	99T0		HsPRs	0	N	67 - 475	N	TO
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	/ 13		01 - / 01								

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		
A, 3 n. E oet L Gg 47-2 MK	T00		MEN	5GT0		HsPRs	0	7N	74 - 47M		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	/ 1/		01 - / 01								

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
A, 3 n. E oet L Gg 47-2 MK	T00		MFG	9660		HsPRs	0	N	74 - 47M	G	TO
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	/ 11		01 - / 01								

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
A, 3 n. DC. I 1f ni sl	0D		50	HsPRs		40F7F4 4NTG	40F7F4 T4:4N	4
A, 3 n. E oet L Gf ni sl	0D		50	HsPRs		40F7F4 4NTG	40F7F4 T4:4N	4
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 16		01 - / 01			/ 17257/ / 8:26	/ 17257/ 2/ / 8	/

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	
A, 3 n. DC. I 1g 40-2 TCK	M00	M667		HsPRs		40G	79 - 4T9	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	/ / 2		01 - / 01					

/ ( touC. 2 n1 dCi dl ) 2

# QC Sample Results

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, tot d e p @ : / SSoi E ob Qx D2 064MM790M0

Job ID: 570-76099-4

## 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		
A, 3 n. E oet L Qg 47-2 MK			M00	M684		HsPRs		444	74 - 46N		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
n-Octacosane (Surr)	// 2		01 - / 01								

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

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
A, 3 n. DC. I 1g 40-2 TgK			M00	M5083		HsPRs		446	79 - 4T9	M	T0
Surrogate	%Recovery	LCSD	Limits								
n-Octacosane (Surr)	// 2	Qualifier	01 - / 01								

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

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
A, 3 n. E oet L Qg 47-2 MK			M00	M7987		HsPRs		407	74 - 46N	M	T0
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	// 4		01 - / 01								

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		
A, 3 n. DC. I 1g 40-2 TgK	ND		MNT	5M48M		HsPRs	o	440	67 - 475		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	/ 18		01 - / 01								

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
A, 3 n. DC. I 1g 40-2 TgK	ND		M00	5M78N		HsPRs	o	446	67 - 475	0	T0
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	///		01 - / 01								

/ ( touC. 2 n1 dCi dl ) ) 2



# QC Sample Results

2 Di e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Gx D2 P064MM790M0

Job ID: 570-76099-4

## 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
A, 3 n. E oet L Gg 47-2 MK	ND		MB	54987		HsPRs	0	40M	74 - 47M
Surrogate	%Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	// 4		01 - / 01						

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
A, 3 n. E oet L Gg 47-2 MK	ND		MB	56583		HsPRs	0	40N	74 - 47M	M	TO
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	// 1		01 - / 01								

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
A, 3 n. DC. I 1f ni sl	ND		580	HsPRs		40F7F4 4N60	40F7F4 TT:49	4
A, 3 n. E oet L Gf ni sl	ND		580	HsPRs		40F7F4 4N60	40F7F4 TT:49	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	///		01 - / 01			/ 172572 / 8:91	/ 172572 / 22:3	/

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
A, 3 n. DC. I 1g 40-2 TGK	MD0	6566		HsPRs		445	79 - 4T9
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	/ 12		01 - / 01				

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
A, 3 n. E oet L Gg 47-2 MK	MD0	6NG37		HsPRs		400	74 - 46N
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	/ 11		01 - / 01				

/ ( touC. 2 n1 dCi dl ) ) 2

# QC Sample Results

2 10i e 2 nta i or li d  
, tot de f @ : / SSoi E obCx D2 064MM790M0

Job ID: 570-76099-4

## 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
A, 3 n. DC. I 1g 40-2 TCK			M00	M66M		HsPRs		40G	79 - 4T9	9	T0
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	/ 11		01 - / 01								

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
A, 3 n. E oet L Gg 47-2 MKK			M00	6G07		HsPRs		N5	74 - 46N	5	T0
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	/ 11		01 - / 01								

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		
A, 3 n. DC. I 1g 40-2 TCK	4N		54G	5M67		HsPRs		404	67 - 475		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	/ 12		01 - / 01								

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		
A, 3 n. E oet L Gg 47-2 MKK	ND		560	M6N8		HsPRs		G0	74 - 47M		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	8/		01 - / 01								

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
A, 3 n. DC. I 1g 40-2 TCK	4N		509	5078G		HsPRs		N7	67 - 475	7	T0
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	83		01 - / 01								

/ ( touC. 2 n1 dCi dl ) 2

# QC Sample Results

2 10i e 2 ntai or li d

Job ID: 570-76099-4

, tot ddf @ : / SSoi E obCx D2 064MM790M0

## 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
A, 3 n. E oæt L Gg 47-2 MK	ND		MG	67MB		HsPRs	o	79	74 - 47M	49	TO
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	66		01 - / 01								

/ ( touC. 2 n1 dCi dl ) ) 2

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613378030

Job ID: 570-76088-1

## GC VOA

### Prep Batch: 17301L

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-1	S-42-K1	Total/NA	Solid	5065	
570-76088-4	S-5-K1	Total/NA	Solid	5065	
570-76088-3	S-10-K1	Total/NA	Solid	5065	
570-76088-5	S-42-I1	Total/NA	Solid	5065	
570-76088-7	S-72-I1	Total/NA	Solid	5065	
570-76088-	S-10-I1	Total/NA	Solid	5065	
570-76088-L	S-42-J1	Total/NA	Solid	5065	
570-76088-11	S-72-J1	Total/NA	Solid	5065	
570-76088-13	S-72-91	Total/NA	Solid	5065	
570-76088-17	S-72-V4	Total/NA	Solid	5065	
570-76088-1.	S-42-M1	Total/NA	Solid	5065	
570-76088-44	S-15-HLA	Total/NA	Solid	5065	
570-76088-45	S-72-M6	Total/NA	Solid	5065	
570-76088-48	S-10-M6	Total/NA	Solid	5065	
570-76088-60	S-10-N3	Total/NA	Solid	5065	

### Prep Batch: 173011

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-6	S-72-K1	Total/NA	Solid	5065	
570-76088-8	S-5-I1	Total/NA	Solid	5065	
570-76088-10	S-5-J1	Total/NA	Solid	5065	
570-76088-14	S-42-91	Total/NA	Solid	5065	
570-76088-16	S-5-91	Total/NA	Solid	5065	
570-76088-15	S-42-V4	Total/NA	Solid	5065	
570-76088-18	S-5-V4	Total/NA	Solid	5065	
570-76088-1L	S-5-M1	Total/NA	Solid	5065	
570-76088-40	S-72-M1	Total/NA	Solid	5065	
570-76088-46	S-42-M6	Total/NA	Solid	5065	
570-76088-43	S-5-M6	Total/NA	Solid	5065	
570-76088-47	S-42-N3	Total/NA	Solid	5065	
570-76088-4.	S-5-N3	Total/NA	Solid	5065	
570-76088-4L	S-72-N3	Total/NA	Solid	5065	

### Analysis Batch: 173053

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-1	S-42-K1	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-4	S-5-K1	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-3	S-10-K1	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-5	S-42-I1	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-7	S-72-I1	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-	S-10-I1	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-L	S-42-J1	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-13	S-72-91	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-1.	S-42-M1	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-45	S-72-M6	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-48	S-10-M6	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-60	S-10-N3	Total/NA	Solid	NG TPK-Bx	1. 7810
MH 570-1. 7847/5	Method Blank	Total/NA	Solid	NG TPK-Bx	
VCS 570-1. 7847/6	Vab Control Sample	Total/NA	Solid	NG TPK-Bx	
VCS 570-1. 7847/3	Vab Control Sample Dup	Total/NA	Solid	NG TPK-Bx	

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613378030

Job ID: 570-76088-1

## GC VOA

### Analysis Batch: 173005

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-41	Trip Hlank	Total/NA	Gater	NG TPK-Bx	
MH 570-1. 7884/5	Method Hlank	Total/NA	Gater	NG TPK-Bx	
VCS 570-1. 7884/6	Vab Control Sample	Total/NA	Gater	NG TPK-Bx	
VCS 570-1. 7884/3	Vab Control Sample Dup	Total/NA	Gater	NG TPK-Bx	
570-74L8L-D-6 MS	Matrix Spike	Total/NA	Gater	NG TPK-Bx	
570-74L8L-D-6 MSD	Matrix Spike Duplicate	Total/NA	Gater	NG TPK-Bx	

### Analysis Batch: 177L82

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-11	S-725-J1	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-14	S-425-91	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-16	S-5-91	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-40	S-725-M1	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-44	S-15-HLA	Total/NA	Solid	NG TPK-Bx	1. 7810
570-76088-4.	S-5-N3	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-4L	S-725-N3	Total/NA	Solid	NG TPK-Bx	1. 7811
MH 570-1. . 065/67	Method Hlank	Total/NA	Solid	NG TPK-Bx	
MH 570-1. . 065/6.	Method Hlank	Total/NA	Solid	NG TPK-Bx	
VCS 570-1. . 065/65	Vab Control Sample	Total/NA	Solid	NG TPK-Bx	
VCS 570-1. . 065/68	Vab Control Sample Dup	Total/NA	Solid	NG TPK-Bx	

### Analysis Batch: 177L98

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-10	S-5-J1	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-18	S-5-V4	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-1L	S-5-M1	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-46	S-425-M6	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-43	S-5-M6	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-47	S-425-N3	Total/NA	Solid	NG TPK-Bx	1. 7811
MH 570-1. . 036/68	Method Hlank	Total/NA	Solid	NG TPK-Bx	
VCS 570-1. . 036/66	Vab Control Sample	Total/NA	Solid	NG TPK-Bx	
VCS 570-1. . 036/63	Vab Control Sample Dup	Total/NA	Solid	NG TPK-Bx	

### Analysis Batch: 176831

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-6	S-725-K1	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-8	S-5-I1	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-15	S-425-V4	Total/NA	Solid	NG TPK-Bx	1. 7811
570-76088-17	S-725-V4	Total/NA	Solid	NG TPK-Bx	1. 7810
MH 570-1. L671/5	Method Hlank	Total/NA	Solid	NG TPK-Bx	
MH 570-1. L671/8	Method Hlank	Total/NA	Solid	NG TPK-Bx	
VCS 570-1. L671/6	Vab Control Sample	Total/NA	Solid	NG TPK-Bx	
VCS 570-1. L671/3	Vab Control Sample Dup	Total/NA	Solid	NG TPK-Bx	

## GC Semi VOA

### Prep Batch: 176371

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-1	S-425-K1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-4	S-5-K1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-6 - DW	S-725-K1	Silica Bel Cleanup	Solid	6550C SBC	

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613378030

Job ID: 570-76088-1

## GC Semi VOA (Continue4)

### Prep Batch: 176371 (Continue4)

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-6	S-75-K1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-3	S-10-K1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-5	S-45-I1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-8	S-5-I1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-7	S-75-I1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-	S-10-I1	Silica Bel Cleanup	Solid	6550C SBC	
MH 570-1. L7. 1/1-A	Method Hlank	Silica Bel Cleanup	Solid	6550C SBC	
VCS 570-1. L7. 1/4-A	Vab Control Sample	Silica Bel Cleanup	Solid	6550C SBC	
VCS 570-1. L7. 1/8-A	Vab Control Sample	Silica Bel Cleanup	Solid	6550C SBC	
VCSD 570-1. L7. 1/6-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	6550C SBC	
VCSD 570-1. L7. 1/7-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	6550C SBC	
570-76087-A-46-A MS	Matrix Spike	Silica Bel Cleanup	Solid	6550C SBC	
570-76087-A-46-H MSD	Matrix Spike Duplicate	Silica Bel Cleanup	Solid	6550C SBC	
570-76087-A-46-C MS	Matrix Spike	Silica Bel Cleanup	Solid	6550C SBC	
570-76087-A-46-D MSD	Matrix Spike Duplicate	Silica Bel Cleanup	Solid	6550C SBC	

### Analysis Batch: 176372

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-16	S-5-91	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-46 - DW	S-45-M6	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-43 - DW	S-5-M6	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-60	S-10-N3	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 70
MH 570-1. L. 70/1-A	Method Hlank	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 70
VCS 570-1. L. 70/4-A	Vab Control Sample	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 70
VCS 570-1. L. 70/8-A	Vab Control Sample	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 70
VCSD 570-1. L. 70/6-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 70
VCSD 570-1. L. 70/7-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 70
570-76077-A-4-A MS	Matrix Spike	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 70
570-76077-A-4-H MSD	Matrix Spike Duplicate	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 70
570-76077-A-4-C MS	Matrix Spike	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 70
570-76077-A-4-D MSD	Matrix Spike Duplicate	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 70

### Analysis Batch: 176726

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-1	S-45-K1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76088-4	S-5-K1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76088-6	S-75-K1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76088-6 - DW	S-75-K1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76088-3	S-10-K1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76088-5	S-45-I1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76088-8	S-5-I1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76088-7	S-75-I1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76088-	S-10-I1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76088-L	S-45-J1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-10	S-5-J1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-11	S-75-J1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-14	S-45-91	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-16	S-5-91	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-13	S-75-91	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-15	S-45-V4	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-18	S-5-V4	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613378030

Job ID: 570-76088-1

## GC Semi VOA (Continue4)

### Analysis Batch: 176726 (Continue4)

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-17	S-725-V4	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-1.	S-425-M1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-1L	S-5-M1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-40	S-725-M1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-44	S-15-HLA	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-46	S-425-M6	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-43	S-5-M6	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-45	S-725-M6	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-48	S-10-M6	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-47	S-425-N3	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-4.	S-5-N3	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-4. - DW	S-5-N3	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-4L - RA	S-725-N3	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
MH 570-1. L7. 1/1-A	Method Hlank	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
MH 570-1. L. 71/1-A	Method Hlank	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
VCS 570-1. L7. 1/4-A	Vab Control Sample	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
VCS 570-1. L7. 1/8-A	Vab Control Sample	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
VCS 570-1. L. 71/4-A	Vab Control Sample	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
VCS 570-1. L. 71/8-A	Vab Control Sample	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
VCSD 570-1. L7. 1/6-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
VCSD 570-1. L7. 1/7-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
VCSD 570-1. L. 71/6-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
VCSD 570-1. L. 71/7-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-11 MS	S-725-J1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-11 MS	S-725-J1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-11 MSD	S-725-J1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76088-11 MSD	S-725-J1	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L. 71
570-76087-A-46-A MS	Matrix Spike	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76087-A-46-H MSD	Matrix Spike Duplicate	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76087-A-46-C MS	Matrix Spike	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1
570-76087-A-46-D MSD	Matrix Spike Duplicate	Silica Bel Cleanup	Solid	NG TPK-Dx	1. L7. 1

### Prep Batch: 17673L

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-60	S-10-N3	Silica Bel Cleanup	Solid	6550C SBC	
MH 570-1. L. 70/1-A	Method Hlank	Silica Bel Cleanup	Solid	6550C SBC	
VCS 570-1. L. 70/4-A	Vab Control Sample	Silica Bel Cleanup	Solid	6550C SBC	
VCS 570-1. L. 70/8-A	Vab Control Sample	Silica Bel Cleanup	Solid	6550C SBC	
VCSD 570-1. L. 70/6-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	6550C SBC	
VCSD 570-1. L. 70/7-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	6550C SBC	
570-76077-A-4-A MS	Matrix Spike	Silica Bel Cleanup	Solid	6550C SBC	
570-76077-A-4-H MSD	Matrix Spike Duplicate	Silica Bel Cleanup	Solid	6550C SBC	
570-76077-A-4-C MS	Matrix Spike	Silica Bel Cleanup	Solid	6550C SBC	
570-76077-A-4-D MSD	Matrix Spike Duplicate	Silica Bel Cleanup	Solid	6550C SBC	

### Prep Batch: 176731

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-L	S-425-J1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-10	S-5-J1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-11	S-725-J1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-14	S-425-91	Silica Bel Cleanup	Solid	6550C SBC	

Eurofins Calscience WVC

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613378030

Job ID: 570-76088-1

## GC Semi VOA (Continue4)

### Prep Batch: 176731 (Continue4)

bal Sample ID	Client Sample ID	Prep Mype	x atrid	x etho4	Prep Batch
570-76088-16	S-5-91	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-13	S-725-91	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-15	S-425-M4	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-18	S-5-M4	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-17	S-725-M4	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-1.	S-425-M1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-1L	S-5-M1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-40	S-725-M1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-44	S-15-HLA	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-46 - DW	S-425-M6	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-46	S-425-M6	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-43 - DW	S-5-M6	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-43	S-5-M6	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-45	S-725-M6	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-48	S-10-M6	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-47	S-425-N3	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-4.	S-5-N3	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-4. - DW	S-5-N3	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-4L - RA	S-725-N3	Silica Bel Cleanup	Solid	6550C SBC	
MH 570-1. L. 71/1-A	Method Hlank	Silica Bel Cleanup	Solid	6550C SBC	
VCS 570-1. L. 71/4-A	Vab Control Sample	Silica Bel Cleanup	Solid	6550C SBC	
VCS 570-1. L. 71/8-A	Vab Control Sample	Silica Bel Cleanup	Solid	6550C SBC	
VCSD 570-1. L. 71/6-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	6550C SBC	
VCSD 570-1. L. 71/7-A	Vab Control Sample Dup	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-11 MS	S-725-J1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-11 MS	S-725-J1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-11 MSD	S-725-J1	Silica Bel Cleanup	Solid	6550C SBC	
570-76088-11 MSD	S-725-J1	Silica Bel Cleanup	Solid	6550C SBC	

# Lab Chronicle

Client: Cardno, Inc  
 1 roPctj/ ite: SEEnx obil MDCj028AA760A0

Job ID: 570-72066-8

**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
Nbtalj. M	1 re3	5025			5 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80j8ZjL8 8Z:57	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1 re3	2550C / GC			8055 g	80 mY	8TZ7T8	80jL7jL8 8A:5L	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		5			8TZT5Z	80jLTjL8 02:85	M8W	SCY8
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
Nbtalj. M	1 re3	5025			597A5 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80j8ZjL8 L0:L8	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1 re3	2550C / GC			809A5 g	80 mY	8TZ7T8	80jL7jL8 8A:5L	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		80			8TZT5Z	80jLTjL8 02:25	M8W	SCY8
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
Nbtalj. M	1 re3	5025			79DL5 g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		50	5 mY	5 mY	8TZ278	80jL6jL8 85:L2	18V	SCYL
Instrument ID: GC56										
/ ilica Gel Cleanu3	1 re3	2550C / GC			55Z g	80 mY	8TZ7T8	80jL7jL8 8A:5L	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 02:56	M8W	SCY8
Instrument ID: GC50										
/ ilica Gel Cleanu3	1 re3	2550C / GC	DY		55Z g	80 mY	8TZ7T8	80jL7jL8 8A:5L	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE	DY	80			8TZT5Z	80jLTjL8 87:05	M8W	SCY8
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
Nbtalj. M	1 re3	5025			A975 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80j8ZjL8 L0:A5	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1 re3	2550C / GC			69.8 g	80 mY	8TZ7T8	80jL7jL8 8A:5L	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 0A:87	M8W	SCY8
Instrument ID: GC50										

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# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDCj028AA760A0

Job ID: 570-72066-8

**Client Sample ID: S-2.5-I1**

**Lab Sample ID: 570-73066-5**

**Date Collected: 10/13/21 14:25**

**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
Nbtalj. M	1 re3	5025			6976 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80j8ZjL8 L8:80	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1 re3	2550C / GC			Z9TL g	80 mY	8TZ7T8	80jL7jL8 8A:5L	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 0A:27	M8W	SCY8
Instrument ID: GC50										

**Client Sample ID: S-5-I1**

**Lab Sample ID: 570-73066-6**

**Date Collected: 10/13/21 14:30**

**Matrix: Solid**

**Date Received: 10/15/21 08:19**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtalj. M	1 re3	5025			686L g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		50	5 mY	5 mY	8TZ278	80jL6jL8 85:A7	18V	SCYL
Instrument ID: GC56										
/ ilica Gel Cleanu3	1 re3	2550C / GC			809.8 g	80 mY	8TZ7T8	80jL7jL8 8A:5L	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		5			8TZT5Z	80jLTjL8 0A:56	M8W	SCY8
Instrument ID: GC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtalj. M	1 re3	5025			2975 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80j8ZjL8 L8:2A	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1 re3	2550C / GC			A9.8 g	80 mY	8TZ7T8	80jL7jL8 8A:5L	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 05:86	M8W	SCY8
Instrument ID: GC50										

**Client Sample ID: S-10-I1**

**Lab Sample ID: 570-73066-8**

**Date Collected: 10/13/21 14:40**

**Matrix: Solid**

**Date Received: 10/15/21 08:19**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtalj. M	1 re3	5025			A9TL g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80j8ZjL8 L8:5T	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1 re3	2550C / GC			Z9T g	80 mY	8TZ7T8	80jL7jL8 8A:5L	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 05:26	M8W	SCY8
Instrument ID: GC50										

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# Lab Chronicle

Client: Cardno, Inc  
 1 roPctj/ ite: SEEnx obil MDCj028AA760A0

Job ID: 570-72066-8

**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
Nbtalj. M	1re3	5025			97L8 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80j8ZjL8 LL:LL	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC			Z97 g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		80			8TZT5Z	80jLTjL8 0T:2T	M8W	SCY8
Instrument ID: GC50										

**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
Nbtalj. M	1re3	5025			79ALL g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		500	5 mY	5 mY	8TT0A2	80jL8jL8 82:5Z	MZf S	SCYL
Instrument ID: GC8										
/ ilica Gel Cleanu3	1re3	2550C / GC			Z97 g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		80			8TZT5Z	80jLTjL8 0Z:2T	M8W	SCY8
Instrument ID: GC50										

**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
Nbtalj. M	1re3	5025			697L g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8TT025	80jL8jL8 02:52	MZf S	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC			8092 g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 0Z:5T	M8W	SCY8
Instrument ID: GC50										

**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
Nbtalj. M	1re3	5025			696Z g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		L00	5 mY	5 mY	8TT025	80jL8jL8 06:A8	MZf S	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC			8092 g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		80			8TZT5Z	80jLTjL8 80:8T	M8W	SCY8
Instrument ID: GC50										

SuroRhs Calscience YYC

# Lab Chronicle

Client: Cardno, Inc  
1 roPctj/ ite: SEEnx obil MDCj028AA760A0

Job ID: 570-72066-8

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtalj. M	1 re3	5025			7955L g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		L50	5 mY	5 mY	8TT025	80jL8jL8 07:05	MZf S	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1 re3	2550C / GC			809A g	80 mY	8TZT78	80jL7jL8 82:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		80			8TZT75	80jLTjL8 8A:5Z	. 8M	SCY8
Instrument ID: GCAT										
/ ilica Gel Cleanu3	1 re3	2550C / GC			809A g	80 mY	8TZT78	80jL7jL8 82:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 80:27	M8W	SCY8
Instrument ID: GC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtalj. M	1 re3	5025			A9A58 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80j8ZjL8 LL:A7	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1 re3	2550C / GC			Z967 g	80 mY	8TZT78	80jL7jL8 82:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 80:56	M8W	SCY8
Instrument ID: GC50										

**Client Sample ID: S-2.5-L2**

**Date Collected: 10/13/21 15:15**

**Date Received: 10/15/21 08:19**

**Lab Sample ID: 570-73066-15**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtalj. M	1 re3	5025			596Z g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		50	5 mY	5 mY	8TZ278	80jL6jL8 86:80	18V	SCYL
Instrument ID: GC56										
/ ilica Gel Cleanu3	1 re3	2550C / GC			Z9A g	80 mY	8TZT78	80jL7jL8 82:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		80			8TZT5Z	80jLTjL8 88:86	M8W	SCY8
Instrument ID: GC50										

**Client Sample ID: S-5-L2**

**Date Collected: 10/13/21 15:20**

**Date Received: 10/15/21 08:19**

**Lab Sample ID: 570-73066-16**

**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtalj. M	1 re3	5025			59ZL g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		500	5 mY	5 mY	8TT0A2	80jL8jL8 82:88	MZf S	SCYL
Instrument ID: GC8										
/ ilica Gel Cleanu3	1 re3	2550C / GC			Z967 g	80 mY	8TZT78	80jL7jL8 82:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		80			8TZT5Z	80jLTjL8 88:26	M8W	SCY8
Instrument ID: GC50										

SuroRhs Calscience YYC



# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDCj028AA760A0

Job ID: 570-72066-8

**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
Nbtalj. M	1re3	5025			79A5 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8TZ278	80jL6jL8 85:00	18V	SCYL
Instrument ID: GC56										
/ ilica Gel Cleanu3	1re3	2550C / GC			Z9L g	80 mY	8TZT78	80jL7jL8 82:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 88:56	M8W	SCY8
Instrument ID: GC50										

**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
Nbtalj. M	1re3	5025			797T g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80jL0jL8 00:A7	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC			Z98 g	80 mY	8TZT78	80jL7jL8 82:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		5			8TZT5Z	80jLTjL8 8L:85	M8W	SCY8
Instrument ID: GC50										

**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
Nbtalj. M	1re3	5025			69266 g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		L500	5 mY	5 mY	8TT0A2	80jL8jL8 8A:L2	Mzf S	SCYL
Instrument ID: GC8										
/ ilica Gel Cleanu3	1re3	2550C / GC			A9ZT g	80 mY	8TZT78	80jL7jL8 82:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		5			8TZT5Z	80jLTjL8 8L:25	M8W	SCY8
Instrument ID: GC50										

**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
Nbtalj. M	1re3	5025			69ZA8 g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		L0	5 mY	5 mY	8TT025	80jL8jL8 05:52	Mzf S	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC			Z9AZ g	80 mY	8TZT78	80jL7jL8 82:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 8L:55	M8W	SCY8
Instrument ID: GC50										

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# Lab Chronicle

Client: Cardno, Inc  
1roPctj/ ite: SEEonx obil MDCj028AA760A0

Job ID: 570-72066-8

**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
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 mY	5 mY	8T766L	80j8ZjL8 L2:5Z	18V	SCYL
Instrument ID: GCL5										

**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
Nbtalj. M	1re3	5025			296L g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8TT025	80jL8jL8 8L:27	Mzf S	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC			A62 g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 82:85	M8W	SCY8
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
Nbtalj. M	1re3	5025			7982 g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		L500	5 mY	5 mY	8TT0A2	80jL8jL8 8A:A7	Mzf S	SCYL
Instrument ID: GC8										
/ ilica Gel Cleanu3	1re3	2550C / GC	DY		8090 g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE	DY	50			8TZT75	80jLTjL8 85:8Z	. 8M	SCY8
Instrument ID: GCAT										
/ ilica Gel Cleanu3	1re3	2550C / GC			8090 g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		5			8TZT5Z	80jLTjL8 82:2A	M8W	SCY8
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
Nbtalj. M	1re3	5025			7985 g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		500	5 mY	5 mY	8TT0A2	80jL8jL8 82:25	Mzf S	SCYL
Instrument ID: GC8										
/ ilica Gel Cleanu3	1re3	2550C / GC	DY		809L g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE	DY	80			8TZT75	80jLTjL8 85:A0	. 8M	SCY8
Instrument ID: GCAT										
/ ilica Gel Cleanu3	1re3	2550C / GC			809L g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 82:52	M8W	SCY8
Instrument ID: GC50										

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# Lab Chronicle

Client: Cardno, Inc  
1 roPctj/ ite: SEEonx obil MDCj028AA760A0

Job ID: 570-72066-8

**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
Nbtalj. M	1re3	5025			27 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80jL0jL8 08:26	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC			55T g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 8A:82	M8W	SCY8
Instrument ID: GC50										

**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
Nbtalj. M	1re3	5025			27T2 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80jL0jL8 0L:00	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC			72A g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 8A:2L	M8W	SCY8
Instrument ID: GC50										

**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
Nbtalj. M	1re3	5025			65TA g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		L000	5 mY	5 mY	8TT0A2	80jL8jL8 85:80	Mzf S	SCYL
Instrument ID: GC8										
/ ilica Gel Cleanu3	1re3	2550C / GC			67A g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		5			8TZT5Z	80jLTjL8 8A:5L	M8W	SCY8
Instrument ID: GC50										

**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
Nbtalj. M	1re3	5025			68AT g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		L00	5 mY	5 mY	8TT025	80jL8jL8 80:86	Mzf S	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC			806L g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		8			8TZT5Z	80jLTjL8 85:88	M8W	SCY8
Instrument ID: GC50										
/ ilica Gel Cleanu3	1re3	2550C / GC	DY		806L g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE	DY	80			8TZT5Z	80jLTjL8 8T:06	M8W	SCY8
Instrument ID: GC50										

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# Lab Chronicle

Client: Cardno, Inc  
 1 roectj/ ite: SEEnx obil MDCj028AA760A0

Job ID: 570-72066-8

**Client Sample ID: S-7.5-N4**

**Lab Sample ID: 570-73066-29**

**Date Collected: 10/14/21 09:10**

**Matrix: Solid**

**Date Received: 10/15/21 08:19**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Nbtalj. M	1re3	5025			5972 g	5 mY	8T7688	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		L0	5 mY	5 mY	8TT025	80jL8jL8 0Z:05	Mzf S	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC	VM		79T g	80 mY	8TZT78	80jL7jL8 8Z:20	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE	VM	8			8TZT5Z	80jLTjL8 8T:L5	M8W	SCY8
Instrument ID: GC50										

**Client Sample ID: S-10-N4**

**Lab Sample ID: 570-73066-30**

**Date Collected: 10/14/21 09:15**

**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
Nbtalj. M	1re3	5025			29A08 g	5 g	8T7680	80j8ZjL8 82:L0	4pY2	SCYL
Nbtalj. M	Mhalysis	. WN1 H-GE		8	5 g	5 mY	8T76L7	80jL0jL8 0L:LA	18V	SCYL
Instrument ID: GC52										
/ ilica Gel Cleanu3	1re3	2550C / GC			Z9Z g	80 mY	8TZT70	80jL7jL8 8Z:LT	. 542	SCY8
/ ilica Gel Cleanu3	Mhalysis	. WN1 H-DE		5			8TZT75	80jLTjL8 88:80	. 8M	SCY8
Instrument ID: GCAT										

## Laboratory References:

SCY8 = SuroRns Calscience YYC Yncoln, 7AA0 Yncoln Way, Garden Grove, CMZLTA8, NSY (78A)TZ5-5AZA

SCYL = SuroRns Calscience YYC Yam3son, 7AA5 Yam3son Mve, Garden Grove, CMZLTA8, NSY (78A)TZ5-5AZA

# Accreditation/Certification Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0634471040

Job ID: 570-76011-3

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C931-38	30-32-22

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

# Method Summary

2 10 e 2 ntai or li d  
, tot dēp @ : / SSoi E obCx D2 064M790M0

Job ID: 570-76099-4

Method	Method Description	Protocol	Laboratory
A3 N, WTS	AotēHGI he-wohē3 , l dō1 sV , toasdh uī 2 m	A3 N, W	/ 2 ( )
A3 N, WDS	AotēHGI he-j l V Gwohē3 , l dō1 sV , toasdh uī 2 m	A3 N, W	/ 2 ( 4
65502 j T2	8 tnhoi d / Sāndē3i	j 3 LM0	/ 2 ( 4
50602	, stU ni a Nny	j 3 LM0	/ 2 ( )
5065	2 bhl a j ghē V , stU ni a Nny	j 3 LM0	/ 2 ( )

## Protocol References:

A3 N, Wp AotēHGI heNōn1, l dō1 sV Wgatodntboi  
j 3 LM0 p =N heEI d-bah " ot / Fn'snēC Uj o tē 3 nhē r , HghCh 12 H V Qn1EI d-bah= NHCa / aCōi r AoFI Vbl t 4vL9 xi a lē 8 yanē h.

## Laboratory References:

/ 2 ( 4 p / stofCh 2 nhdCi dl (( 2 ( Cdo1 r 7MM0 ( Cdo1 3 ngr Tntal i TtoFI r 2x v) LM#r N ( u74Mh v5-5MM  
/ 2 ( ) p / stofCh 2 nhdCi dl (( 2 ( nV yhoi r 7MM5 ( nV yhoi xFI r Tntal i TtoFI r 2x v) LM#r N ( u74Mh v5-5MM

/ stofCh 2 nhdCi dl (( 2





7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
CalScience  
TEL: (714) 895-5494 . FAX: (714) 894-7501

### Site Name

Everett Bulk Plant

### CHAIN OF CUSTODY RECORD

DATE 10/14/2021

PAGE 1 OF 2

Jennifer Sedlachek

ExxonMobil Engr

ExxonMobil ADC / 0314476040

LABORATORY CLIENT: <b>Cardno</b> 309 South Cloverdale Street Unit A13 CITY Seattle, WA 98108 TEL 206-510-5855 FAX N/A		GLOBAL ID # COELT LOG CODE: 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 checked="" type="checkbox"/> 10 DAYS		PROJECT CONTACT <b>Robert Thompson</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input checked="" type="checkbox"/> ARCHIVE SAMPLES UNTIL ____ / ____ / ____		SAMPLER(S): <b>Paul Prevou, Cameron Penner-Ash, John Considine</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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		REQUESTED ANALYSIS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
<table border="1"> <thead> <tr> <th rowspan="2">SAMPLE ID</th> <th rowspan="2">Field Point Name</th> <th colspan="2">SAMPLING</th> <th rowspan="2">NO. OF CONT</th> </tr> <tr> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>1</td><td>J-2.5-H1</td><td>10/13/2021</td><td>1405</td><td>4</td></tr> <tr><td>2</td><td>J-5-H1</td><td>10/13/2021</td><td>1410</td><td>4</td></tr> <tr><td>3</td><td>J-7.5-H1</td><td>10/13/2021</td><td>1415</td><td>4</td></tr> <tr><td>4</td><td>J-10-H1</td><td>10/13/2021</td><td>1420</td><td>4</td></tr> <tr><td>5</td><td>J-2.5-H1</td><td>10/13/2021</td><td>1425</td><td>4</td></tr> <tr><td>6</td><td>J-5-H1</td><td>10/13/2021</td><td>1430</td><td>4</td></tr> <tr><td>7</td><td>J-7.5-H1</td><td>10/13/2021</td><td>1435</td><td>4</td></tr> <tr><td>8</td><td>J-10-H1</td><td>10/13/2021</td><td>1440</td><td>4</td></tr> <tr><td>9</td><td>J-2.5-J1</td><td>10/13/2021</td><td>1445</td><td>4</td></tr> <tr><td>10</td><td>J-5-J1</td><td>10/13/2021</td><td>1450</td><td>4</td></tr> <tr><td>11</td><td>J-7.5-J1</td><td>10/13/2021</td><td>1455</td><td>4</td></tr> 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OF CONT	DATE	TIME	1	J-2.5-H1	10/13/2021	1405	4	2	J-5-H1	10/13/2021	1410	4	3	J-7.5-H1	10/13/2021	1415	4	4	J-10-H1	10/13/2021	1420	4	5	J-2.5-H1	10/13/2021	1425	4	6	J-5-H1	10/13/2021	1430	4	7	J-7.5-H1	10/13/2021	1435	4	8	J-10-H1	10/13/2021	1440	4	9	J-2.5-J1	10/13/2021	1445	4	10	J-5-J1	10/13/2021	1450	4	11	J-7.5-J1	10/13/2021	1455	4	12	J-10-J1	10/13/2021	1500	4	13	J-2.5-K1	10/13/2021	1505	4	14	J-5-K1	10/13/2021	1510	4	15	J-7.5-K1	10/13/2021	1515	4	16	J-10-K1	10/13/2021	1520	4	17	J-2.5-L2	10/13/2021	1525	4	18	J-5-L2	10/13/2021	1530	4	19	J-7.5-M1	10/13/2021	1535	4	20	J-10-M1	10/13/2021	1640	4	21	Trip Blank	10/14/2021			22	Trip Blank	10/14/2021			23	Trip Blank	10/14/2021			24	Trip Blank	10/14/2021			25	Trip Blank	10/14/2021			26	Trip Blank	10/14/2021			27	Trip Blank	10/14/2021			28	Trip Blank	10/14/2021			29	Trip Blank	10/14/2021			30	Trip Blank	10/14/2021			31	Trip Blank	10/14/2021			32	Trip Blank	10/14/2021			33	Trip Blank	10/14/2021			34	Trip Blank	10/14/2021			35	Trip Blank	10/14/2021			36	Trip Blank	10/14/2021			37	Trip Blank	10/14/2021			38	Trip Blank	10/14/2021			39	Trip Blank	10/14/2021			40	Trip Blank	10/14/2021			41	Trip Blank	10/14/2021			42	Trip Blank	10/14/2021			43	Trip Blank	10/14/2021			44	Trip Blank	10/14/2021			45	Trip Blank	10/14/2021			46	Trip Blank	10/14/2021			47	Trip Blank	10/14/2021			48	Trip Blank	10/14/2021			49	Trip Blank	10/14/2021			50	Trip Blank	10/14/2021			51	Trip Blank	10/14/2021			52	Trip Blank	10/14/2021			53	Trip Blank	10/14/2021			54	Trip Blank	10/14/2021			55	Trip Blank	10/14/2021			56	Trip Blank	10/14/2021			57	Trip Blank	10/14/2021			58	Trip Blank	10/14/2021			59	Trip Blank	10/14/2021			60	Trip Blank	10/14/2021			61	Trip Blank	10/14/2021			62	Trip Blank	10/14/2021			63	Trip Blank	10/14/2021			64	Trip Blank	10/14/2021			65	Trip Blank	10/14/2021			66	Trip Blank	10/14/2021			67	Trip Blank	10/14/2021			68	Trip Blank	10/14/2021			69	Trip Blank	10/14/2021			70	Trip Blank	10/14/2021			71	Trip Blank	10/14/2021			72	Trip Blank	10/14/2021			73	Trip Blank	10/14/2021			74	Trip Blank	10/14/2021			75	Trip Blank	10/14/2021			76	Trip Blank	10/14/2021			77	Trip Blank	10/14/2021			78	Trip Blank	10/14/2021			79	Trip Blank	10/14/2021			80	Trip Blank	10/14/2021			81	Trip Blank	10/14/2021			82	Trip Blank	10/14/2021			83	Trip Blank	10/14/2021			84	Trip Blank	10/14/2021			85	Trip Blank	10/14/2021			86	Trip Blank	10/14/2021			87	Trip Blank	10/14/2021			88	Trip Blank	10/14/2021			89	Trip Blank	10/14/2021			90	Trip Blank	10/14/2021			91	Trip Blank	10/14/2021			92	Trip Blank	10/14/2021			93	Trip Blank	10/14/2021			94	Trip Blank	10/14/2021			95	Trip Blank	10/14/2021			96	Trip Blank	10/14/2021			97	Trip Blank	10/14/2021			98	Trip Blank	10/14/2021			99	Trip Blank	10/14/2021			100	Trip Blank	10/14/2021		
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[illegible]

73066

COPY



570-73066 Waybill

Part # 156297-433-PRIME EX-06/22	
SHIP DATE: 14OCT21 ACTWT: 49.10 LB CAD: 698624/SSE2220 DIMS: 24X13X13 IN	Phone Number
BILL RECIPIENT	
ORIGIN ID:BBEA (817) 965-6081 PAUL PREVOUT CARDNO 309 S CLOVERDALE ST STE A13 SEATTLE, WA 98108 UNITED STATES US	

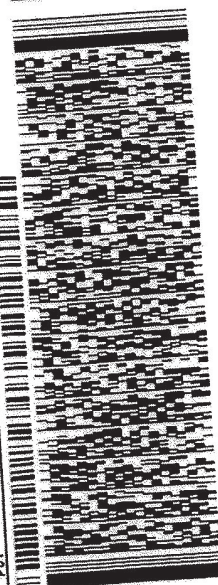
TO CALCSIENCE ENVIRONMENTAL LAB

7440 LINCOLN WAY

GARDEN GROVE CA 92841

REF: (714) 895-5484  
INVT  
POT

DEPT:



FRI - 15 OCT 4:30P

STANDARD OVERNIGHT

AHS

92841

CA-US SNA

TRK# 8158 1726 1065  
0215

92 APVA



TODY SEAL

Date: 10/14/2021

Signature:



800-233-8425

## Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-76011-3

**Login Number: 73066**

**List Source: Eurofins Calscience LLC**

**List Number: 1**

**Creator: Ramos, Maribel**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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 $<1\text{mm}$ (3/4").	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)

### 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: 570-73067-1

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-	S+rrouate recogerv exceedy control lis ity, lom biayedh
S1.	S+rrouate recogerv exceedy control lis ity, ajuu biayedh

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
L	"iyted +nder tæ pDpcol+s n to deyiunate tæat tæ rey+lt iy reworted on a drv meiuæ bayiy
%R	Percent Recogerv
CF"	Containy Free "iq+id
CFU	Colonv Fors inu Unit
CNF	Containy No Free "iq+id
DER	D+wicate Error Ratio (nors alized abyol+te difference)
Dil Fac	Dil+tition Factor
D"	Detection " is it (DoD/DOE)
D", RA, RE, IN	Indicatey a Dil+tition, Re-analyviy, Re-extraction, or additional Initial s etaly/anion analyviy of tæ yas we
D"C	Deciyion "egel Concentration (Radiocæes iytrv)
ED"	Eytis ated Detection " is it (Dioxin)
"OD	" is it of Detection (DoD/DOE)
"OQ	" is it of Q+antitation (DoD/DOE)
MC"	EPA recos s ended pMaxis +s Contas inant " egelp
MDA	Minis +s Detectable Actigitv (Radiocæes iytrv)
MDC	Minis +s Detectable Concentration (Radiocæes iytrv)
MD"	Metæod Detection " is it
M"	Minis +s "egel (Dioxin)
MPN	Moyt Probable N+s ber
MQ"	Metæod Q+antitation " is it
NC	Not Calc+lated
ND	Not Detected at tæ rewortinu lis it (or MD" or ED" if yæomn)
NEG	Neuatige / Abyent
POS	Poyitige / Preyent
PQ"	Practical Q+antitation " is it
PRES	Prey+s wtige
QC	Q+alitr Control
RER	Relatige Error Ratio (Radiocæes iytrv)
R"	Rewortinu " is it or Req+eyted " is it (Radiocæes iytrv)
RPD	Relatige Percent Difference, a s eay+re of tæ relatige difference between tmo wointy
TEF	Toxicitv Eq+igalent Factor (Dioxin)
TEQ	Toxicitv Eq+igalent Q+otient (Dioxin)
TNTC	Too N+s ero+y To Co+nt

# Case Narrative

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0634471040

Job ID: 570-76017-3

## Job ID: 570-76017-3

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-76017-3

#### Comments

No additional comments.

#### Receipt

The samples were received on 30/35/8083 30:30 AM. Unless otherwise noted below, the samples arrived in good condition, and were required, properly preserved and on ice. The temperature of the cooler at receipt was 8.6 °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 570-397533. 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-batch 397779. 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 570-397187. 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 570-399065. 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 570-399046. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Spike recovery for the yellowinU sample was outside control limits: S-30-L9 (570-76017-33). 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 570-39f 673. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Spike recovery for the yellowinU sample was outside control limits: S-8.5-P8 (570-76017-8f). Re-extraction and/or re-analysis was performed and spike 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 6530C SGC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-399036. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method 6530C SGC: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-399039. 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

2 Di e 2 ntai or li d

Job ID: 570-76097-4

, tot de j @ : / SSoi E obGx D2 P64MM790M0

## Client Sample ID: S-2.5-M9

## Lab Sample ID: 570-73067-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	0(77		0()	. nfgm	4	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	600		)9	. nfgm	5	A	KN 3, DS	j Qdn HI 1 2 1 ni CR
3, nTE oet u GWhi ml	M00		)9	. nfgm	5	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-5-M9

## Lab Sample ID: 570-73067-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	M000		M 0	. nfgm	) 000	A	KN 3, HS	3oenPKx
3, nTE oet u GWhi ml	4p0		5(5	. nfgm	4	A	KN 3, DS	j Qdn HI 1 2 1 ni CR
3, nTDCTI 1Whi ml - D8	5700		55	. nfgm	40	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-7.5-M9

## Lab Sample ID: 570-73067-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	6500		) p0	. nfgm	4000	A	KN 3, HS	3oenPKx
3, nTE oet u GWhi ml	4400		4p	. nfgm	)	A	KN 3, DS	j Qdn HI 1 2 1 ni CR
3, nTDCTI 1Whi ml - D8	) 4000		4p0	. nfgm	) 0	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-10-M9

## Lab Sample ID: 570-73067-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	) f 00		700	. nfgm	) 500	A	KN 3, HS	3oenPKx
3, nTE oet u GWhi ml	4M00		95	. nfgm	5	A	KN 3, DS	j Qdn HI 1 2 1 ni CR
3, nTDCTI 1Whi ml - D8	65000		950	. nfgm	50	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-12.5-M9

## Lab Sample ID: 570-73067-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	560		450	. nfgm	) 50	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	44000		440	. nfgm	5	A	KN 3, DS	j Qdn HI 1 2 1 ni CR
3, nTE oet u GWhi ml	4700		440	. nfgm	5	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-15-M9

## Lab Sample ID: 570-73067-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	M0		4)	. nfgm	) 0	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	) 9		47	. nfgm	4	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-17.5-M9

## Lab Sample ID: 570-73067-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	0(f 7		0()	. nfgm	4	A	KN 3, HS	3oenPKx

3hG DI 4 deCi j Q . nty aol Ti oeCdCal tnaQdhl . Qn14 Tetl TOB(

/ CtoLCT 2 nTdCi dl 882

# Detection Summary

2 10 e 2 nta i or li d

Job ID: 570-76097-4

, tot de j @ : / SSoi E obCx D2 P64MM790M0

## Client Sample ID: S-2.5-L8

## Lab Sample ID: 570-73067-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M246G	4(0		0( ) 9	. nfgm	4	A	KN 3, nHS	3oenfKx
3, nT DCTI 1Whi ml	6M0		40	. nfgm	)	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR
3, nTE oet u QWhi ml	) 00		40	. nfgm	)	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-5-L8

## Lab Sample ID: 570-73067-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M246G	6f 00		9p0	. nfgm	) 500	A	KN 3, nHS	3oenfKx
3, nTE oet u QWhi ml	4600		96	. nfgm	40	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR
3, nT DCTI 1Whi ml - D8	) ) 000		460	. nfgm	) 0	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-7.5-L8

## Lab Sample ID: 570-73067-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M246G	4f 00		4M0	. nfgm	) 50	A	KN 3, nHS	3oenfKx
3, nT DCTI 1Whi ml	) 4000		p)	. nfgm	5	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR
3, nTE oet u QWhi ml	pf 0		p)	. nfgm	5	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-10-L8

## Lab Sample ID: 570-73067-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M246G	6) 0		f (M	. nfgm	) 0	A	KN 3, nHS	3oenfKx
3, nT DCTI 1Whi ml	46000		400	. nfgm	5	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR
3, nTE oet u QWhi ml	f ) 0		400	. nfgm	5	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-12.5-L8

## Lab Sample ID: 570-73067-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M246G	4)		4(f	. nfgm	4	A	KN 3, nHS	3oenfKx
3, nTE oet u QWhi ml	7)		M	. nfgm	4	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-2.5-O7

## Lab Sample ID: 570-73067-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M246G	5) 0		460	. nfgm	500	A	KN 3, nHS	3oenfKx
3, nT DCTI 1Whi ml	6p00		5)	. nfgm	5	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR
3, nTE oet u QWhi ml	4900		5)	. nfgm	5	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-5-O7

## Lab Sample ID: 570-73067-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nT HnToDI 2 M246G	) M0		) M	. nfgm	400	A	KN 3, nHS	3oenfKx
3, nT DCTI 1Whi ml	p70		p6	. nfgm	40	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR
3, nTE oet u QWhi ml	6600		p6	. nfgm	40	A	KN 3, nDS	j Qdn HI 1 2 1 ni CR

3hC DI 4 deCi j Q . nty aol Ti oeCd1Cal tnaQdhl . Qn14 Tetl TOB(

/ CtoLCT 2 n1TdCi dl 882

# Detection Summary

2 10 e 2 ntai or li d

Job ID: 570-76097-4

, tot deP @ : / SSoi E obCx D2 P64MM790M0

## Client Sample ID: S-7.5-O7

## Lab Sample ID: 570-73067-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToI 2M246G	) 400		) 00	. nfgm	500	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	) 0000		f )	. nfgm	5	A	KN 3, DS	j Qdn HI 1 2 1 ni CR
3, nTE oet u QWhi ml	7f 0		f )	. nfgm	5	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-10-O7

## Lab Sample ID: 570-73067-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToI 2M246G	440		7(M	. nfgm	) 0	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	) 00		7M	. nfgm	40	A	KN 3, DS	j Qdn HI 1 2 1 ni CR
3, nTE oet u QWhi ml	990		7M	. nfgm	40	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-12.5-O7

## Lab Sample ID: 570-73067-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToI 2M246G	40		4(9	. nfgm	4	A	KN 3, HS	3oenPKx
3, nTE oet u QWhi ml	400		56	. nfgm	4	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-5-P6

## Lab Sample ID: 570-73067-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToI 2M246G	) ) 00		450	. nfgm	500	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	4M00		f p	. nfgm	40	A	KN 3, DS	j Qdn HI 1 2 1 ni CR
3, nTE oet u QWhi ml	f f 0		f p	. nfgm	40	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-10-P6

## Lab Sample ID: 570-73067-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToI 2M246G	) (0		0(64	. nfgm	4	A	KN 3, HS	3oenPKx
3, nTE oet u QWhi ml	4)		9(p	. nfgm	4	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: S-12.5-P6

## Lab Sample ID: 570-73067-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToI 2M246G	9(0		) (0	. nfgm	4	A	KN 3, HS	3oenPKx
3, nTE oet u QWhi ml	400		5f	. nfgm	4	A	KN 3, DS	j Qdn HI 1 2 1 ni CR

## Client Sample ID: Trip Blank

## Lab Sample ID: 570-73067-21

Ko DI d deoi T(

## Client Sample ID: EQB1

## Lab Sample ID: 570-73067-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTDCTI 1Whi ml	450		f 9	QnB	4		KN 3, DS	j Qdn HI 1 2 1 ni CR

3hC DI d deoi j Q . nty aol Ti oeCdCal tnaQdhl . Qn1d Tetl TOB(

/ CtoLCT 2 nTdCi dl 882



# Detection Summary

2 10i e 2 ntai or li d

, tot deP @ : / SSoi E obCx D2 P64MM790M0

Job ID: 570-76097-4

## Client Sample ID: S-2.5-O3

## Lab Sample ID: 570-73067-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	6(9		0(65	. nfgm	4	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	f f		9(6	. nfgm	4	A	KN 3, DS	j Cdn HI 1 2 1 ni CR
3, nTE oet u GWhi ml	440		9(6	. nfgm	4	A	KN 3, DS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-5-O3

## Lab Sample ID: 570-73067-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	4500		9p	. nfgm	) 50	A	KN 3, HS	3oenPKx
3, nTE oet u GWhi ml	460		7(7	. nfgm	4	A	KN 3, DS	j Cdn HI 1 2 1 ni CR
3, nTDCTI 1Whi ml - D8	6) 00		77	. nfgm	40	A	KN 3, DS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-7.5-O3

## Lab Sample ID: 570-73067-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	4(4		0() )	. nfgm	4	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	9(4		9(0	. nfgm	4	A	KN 3, DS	j Cdn HI 1 2 1 ni CR
3, nTE oet u GWhi ml	46		9(0	. nfgm	4	A	KN 3, DS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-2.5-P4

## Lab Sample ID: 570-73067-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	) 50		69	. nfgm	) 00	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	6) 0		) 7	. nfgm	5	A	KN 3, DS	j Cdn HI 1 2 1 ni CR
3, nTE oet u GWhi ml	5p0		) 7	. nfgm	5	A	KN 3, DS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-5-P4

## Lab Sample ID: 570-73067-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	p40		4) 0	. nfgm	500	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	p60		5(p	. nfgm	4	A	KN 3, DS	j Cdn HI 1 2 1 ni CR
3, nTE oet u GWhi ml	5p		5(p	. nfgm	4	A	KN 3, DS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-7.5-P4

## Lab Sample ID: 570-73067-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	M5		) 0	. nfgm	50	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	M6		6M	. nfgm	5	A	KN 3, DS	j Cdn HI 1 2 1 ni CR
3, nTE oet u GWhi ml	) M0		6M	. nfgm	5	A	KN 3, DS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-2.5-P2

## Lab Sample ID: 570-73067-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToDI 2M246G	0() 6		0() )	. nfgm	4	A	KN 3, HS	3oenPKx
3, nTDCTI 1Whi ml	640		) p	. nfgm	5	A	KN 3, DS	j Cdn HI 1 2 1 ni CR

3hC DI 4 deCi j Q . nty aol Ti oeCdCal tnaCdhI . Cdn1e TetI TOE(

/ CtoLCT 2n1TdCi dl 882

# Detection Summary

2 10 e 2 n tai or li d

Job ID: 570-76097-4

, tot de j @ : / SSoi E obCx D2 064MM790M0

## 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
3, nTE oet u GWhi ml	960		) p	. nfgm	5	A	KN 3, nDS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-5-P2

## Lab Sample ID: 570-73067-30

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToCI 2 M246G	4500		4) 0	. nfgm	500	A	KN 3, nHS	3oenPKx
3, nTE oet u GWhi ml	4900		46	. nfgm	)	A	KN 3, nDS	j Cdn HI 1 2 1 ni CR
3, nTDCTI 1Whi ml - D8	Mf 00		96	. nfgm	40	A	KN 3, nDS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-7.5-P2

## Lab Sample ID: 570-73067-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToCI 2 M246G	) (f		0(6)	. nfgm	4	A	KN 3, nHS	3oenPKx
3, nTDCTI 1Whi ml	4) 0		4M	. nfgm	)	A	KN 3, nDS	j Cdn HI 1 2 1 ni CR
3, nTE oet u GWhi ml	M60		4M	. nfgm	)	A	KN 3, nDS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-2.5-O1

## Lab Sample ID: 570-73067-32

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTE oet u GWhi ml	470		54	. nfgm	40	A	KN 3, nDS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-5-O1

## Lab Sample ID: 570-73067-33

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTE oet u GWhi ml	77		60	. nfgm	5	A	KN 3, nDS	j Cdn HI 1 2 1 ni CR

## Client Sample ID: S-7.5-O1

## Lab Sample ID: 570-73067-34

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3, nTHnToCI 2 M246G	6(7		0() p	. nfgm	4	A	KN 3, nHS	3oenPKx
3, nTDCTI 1Whi ml	4M		9(p	. nfgm	4	A	KN 3, nDS	j Cdn HI 1 2 1 ni CR
3, nTE oet u GWhi ml	46		9(p	. nfgm	4	A	KN 3, nDS	j Cdn HI 1 2 1 ni CR

3hCT DI d deoi j Q . nty aol Ti oeCdCal tnaCdhI . Cdn1e Tetl TOE(

/ CtoLCT 2 nTdCi dl 882

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-13-Mr

Lab Sample ID: 570-72067-8

Date Cdlle/ tec: 809v918 0r:10

Matxio: Sdllic

Date Re/ eihec: 8095918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	037		04m	g KOK	8	10/1. /ml 1m37	10/m0/ml 06:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	888		65 - 865	85010 8 8/ 23	850 50 8 5: 28	8

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	200		n2	g KOK	8	10/n7/ml 13:n6	10/n7/ml nm00	5
PHG as Mtdtxg il Ranf e	v60		n2	g KOK	8	10/n7/ml 13:n6	10/n7/ml nm00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	851		65 - 865	850 30 8 842 :	850 30 8 / / 25	6

Client Sample ID: S-5-Mr

Lab Sample ID: 570-72067-1

Date Cdlle/ tec: 809v918 0r:15

Matxio: Sdllic

Date Re/ eihec: 8095918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	v600		3n0	g KOK	8	10/1. /ml 1m3T	10/ml/ml 0T:5T	n000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	853		65 - 865	85010 8 8/ 2s	850 80 8 5s2s	/ 555

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Mtdtxg il Ranf e	800		54	g KOK	8	10/n7/ml 13:n6	10/n7/ml nmml	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	88:		65 - 865	850 30 8 842 :	850 30 8 / / 2 8	8

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup - DL

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	5700		55	g KOK	8	10/n7/ml 13:n6	10/ml/ml 16:62	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	881		65 - 865	850 30 8 842 :	850 s0 8 8: 2 9	85

Client Sample ID: S-73-Mr

Lab Sample ID: 570-72067-2

Date Cdlle/ tec: 809v918 0r:20

Matxio: Sdllic

Date Re/ eihec: 8095918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	2500		mT0	g KOK	8	10/1. /ml 1m3T	10/ml/ml 0T:63	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	15		65 - 865	85010 8 8/ 2s	850 80 8 5s2 4	8555

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Mtdtxg il Ranf e	8800		1T	g KOK	8	10/n7/ml 13:n6	10/n7/ml nm3m	rr

EHosnRCaRcience NNC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-73-Mr

Date Cdlle/tec: 809v918 0r:20

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-2

Matxio: Sdllic

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	883		65 - 865	850 30 8 842 :	850 30 8 / / 24/	/
<b>MetNdc: WT PHG-Do - WdxNVest - Semi- (dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup - DL</b>						
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec
PHG as Diesel Ranf e	18000		1T0	g KOK	8	10/n7/ml 13:m6
						10/ml/ml 16:57
						n0
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	885		65 - 865	850 30 8 842 :	850 s0 8 8/ 23	/ 5

Client Sample ID: S-80-Mr

Date Cdlle/tec: 809v918 0r:25

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-v

Matxio: Sdllic

<b>MetNdc: WT PHG-wo - WdxNVest - (dlatile Hetxdleum Hxdcu/ ts )wC4</b>						
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec
PHG as wasdline )Cv-C824	1r00		700	g KOK	8	10/1. /ml 1m3T
						10/ml/ml 1m00
						n500
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	1s		65 - 865	850 10 8 8/ 2s	850 80 8 8/ 25	/ 655
<b>MetNdc: WT PHG-Do - WdxNVest - Semi- (dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup</b>						
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec
PHG as Mdt dx g il Ranf e	8v00		25	g KOK	8	10/n7/ml 13:m6
						10/n7/ml n6:0m
						5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	883		65 - 865	850 30 8 842 :	850 30 8 / : 25/	6
<b>MetNdc: WT PHG-Do - WdxNVest - Semi- (dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup - DL</b>						
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec
PHG as Diesel Ranf e	25000		250	g KOK	8	10/n7/ml 13:m6
						10/ml/ml 13:1T
						50
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	8/ 1		65 - 865	850 30 8 842 :	850 s0 8 842s	65

Client Sample ID: S-813-Mr

Date Cdlle/tec: 809v918 0r:v0

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-5

Matxio: Sdllic

<b>MetNdc: WT PHG-wo - WdxNVest - (dlatile Hetxdleum Hxdcu/ ts )wC4</b>						
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec
PHG as wasdline )Cv-C824	520		150	g KOK	8	10/1. /ml 1m3T
						10/n2/ml mm0T
						n60
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	36		65 - 865	850 10 8 8/ 2s	850 90 8 / / 25s	/ 65
<b>MetNdc: WT PHG-Do - WdxNVest - Semi- (dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup</b>						
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec
PHG as Diesel Ranf e	88000		110	g KOK	8	10/n7/ml 13:m6
PHG as Mdt dx g il Ranf e	8700		110	g KOK	8	10/n7/ml 13:m6
						10/n7/ml n6:n6
						5
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	883		65 - 865	850 30 8 842 :	850 30 8 / : 2 :	6

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-85-Mr

Lab Sample ID: 570-72067-6

Date Cdlle/ tec: 8098v918 0r:v5

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	v6		1m	g K/K	8	10/1. /ml 1m3T	10/ml/ml 12:32	n0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	889		65 - 865	85010 8 8/ 2s	850 80 8 8929	/ 5

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	16		17	g K/K	8	10/n7/ml 13:n6	10/n7/ml n6:35	1
9PO aRMotor u il f anKe	LD		17	g K/K	8	10/n7/ml 13:n6	10/n7/ml n6:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	889		65 - 865	850 30 8 842 :	850 30 8 / : 26	8

Client Sample ID: S-873-Mr

Lab Sample ID: 570-72067-7

Date Cdlle/ tec: 8098v918 0r:50

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	037		04m	g K/K	8	10/1. /ml 1m37	10/m0/ml ml:m0m	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	3s		65 - 865	85010 8 8/ 243	850 50 8 / 825/	8

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
9PO aRDiePel f anKe	LD		54T	g K/K	8	10/n7/ml 13:n6	10/ml/ml 00:05	1
9PO aRMotor u il f anKe	LD		54T	g K/K	8	10/n7/ml 13:n6	10/ml/ml 00:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	88:		65 - 865	850 30 8 842 :	850 s0 8 5526	8

Client Sample ID: S-135-LO

Lab Sample ID: 570-72067-C

Date Cdlle/ tec: 8098v918 0r:55

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	830		04n2	g K/K	8	10/1. /ml 1m37	10/m0/ml ml:m2	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	881		65 - 865	85010 8 8/ 243	850 50 8 / 829	8

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	2v0		10	g K/K	8	10/n7/ml 13:n6	10/ml/ml 00:n5	rr
PHG as Mtdtxg il Ranf e	100		10	g K/K	8	10/n7/ml 13:n6	10/ml/ml 00:n5	rr

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	88:		65 - 865	850 30 8 842 :	850 s0 8 5526	/

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-5-LO

Date Cdlle/ tec: 809v918 80:00

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-r

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	2r00		2T0	g KOK	8	10/1./m1 1m3T	10/m1/m1 0.:mm	n500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85/		65 - 865	85010 8 8/ 2s	850 80 8 512 /	/ 655

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Mtdtxg il Ranf e	8200		26	g KOK	8	10/n7/m1 13:n6	10/m1/m1 00:32	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	8/ :		65 - 865	850 30 8 842 :	850 s0 8 55249	85

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup - DL

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	11000		160	g KOK	8	10/n7/m1 13:n6	10/m1/m1 13:6T	n0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	8/ 6		65 - 865	850 30 8 842 :	850 s0 8 842 s	/ 5

Client Sample ID: S-73-LO

Date Cdlle/ tec: 809v918 80:05

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-80

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	8r00		130	g KOK	8	10/1./m1 1m3T	10/n2/m1 nrm6m	n50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	s4		65 - 865	85010 8 8/ 2s	850 90 8 / / 2 /	/ 65

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	18000		Tm	g KOK	8	10/n7/m1 13:n6	10/m1/m1 01:07	5
PHG as Mtdtxg il Ranf e	00		Tm	g KOK	8	10/n7/m1 13:n6	10/m1/m1 01:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	884		65 - 865	850 30 8 842 :	850 s0 8 5823	6

Client Sample ID: S-80-LO

Date Cdlle/ tec: 809v918 80:80

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-88

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	210		. 43	g KOK	8	10/1./m1 1m3T	10/1./m1 1T:31	n0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	838	S8+	65 - 865	85010 8 8/ 2s	85010 8 8s248	/ 5

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	82000		100	g KOK	8	10/n7/m1 13:n6	10/m1/m1 0m0T	5
PHG as Mtdtxg il Ranf e	r 10		100	g KOK	8	10/n7/m1 13:n6	10/m1/m1 0m0T	5

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-80-LO

Date Cdlle/ tec: 809v918 80:80

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-88

Matxio: Sdllic

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qd Qbat ne (Surr)	889		65 - 865	850 30 8 842 :	850 s0 8 5/ 2s	6

Client Sample ID: S-813-LO

Date Cdlle/ tec: 809v918 80:85

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-81

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4									
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/	
PHG as wasdline )Cv-C824	81		14	g KOK	8	10/1. /ml 1m37	10/n0/ml 03:3.	1	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	s/		65 - 865	85010 8 8/ 243	850 50 8 5421	8			

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/	
9PO aRDieRel f anKe	LD		3.	g KOK	8	10/n7/ml 13:n6	10/ml/ml 0m60	1	
PHG as Mtdtxg il Ranf e	71		3.	g KOK	8	10/n7/ml 13:n6	10/ml/ml 0m60	1	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-7 Qd Qbat ne (Surr)	8/ 6		65 - 865	850 30 8 842 :	850 s0 8 5/ 2 5	8			

Client Sample ID: S-135-g 7

Date Cdlle/ tec: 809v918 80:20

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-82

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4									
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/	
PHG as wasdline )Cv-C824	510		160	g KOK	8	10/1. /ml 1m3T	10/ml/ml 07:32	500	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	886		65 - 865	85010 8 8/ 24s	850 80 8 53249	655			

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/	
PHG as Diesel Ranf e	2000		5m	g KOK	8	10/n7/ml 13:n6	10/ml/ml 0m50	5	
PHG as Mtdtxg il Ranf e	8600		5m	g KOK	8	10/n7/ml 13:n6	10/ml/ml 0m50	5	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-7 Qd Qbat ne (Surr)	886		65 - 865	850 30 8 842 :	850 s0 8 5/ 265	6			

Client Sample ID: S-5-g 7

Date Cdlle/ tec: 809v918 80:25

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-8v

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4									
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/	
PHG as wasdline )Cv-C824	1v0		n8	g KOK	8	10/1. /ml 1m3T	10/ml/ml 0. :nT	100	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	3/		65 - 865	85010 8 8/ 24s	850 80 8 512 s	855			

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-5-g 7

Date Cdlle/ tec: 8098v918 80:25

Date Re/ eihec: 80985918 80:80

Lab Sample ID: 570-72067-8v

Matxio: Sdllic

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	070		T6	g KOK	8	10/n7/ml 13:m6	10/ml/ml 06:11	10
PHG as Mtdtxg il Ranf e	2200		T6	g KOK	8	10/n7/ml 13:m6	10/ml/ml 06:11	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	8:/		65 - 865			850 30 8 842 :	850 s0 8 5: 28	85

Client Sample ID: S-735-g 7

Date Cdlle/ tec: 8098v918 80:v0

Date Re/ eihec: 80985918 80:80

Lab Sample ID: 570-72067-85

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	1800		m00	g KOK	8	10/1. /ml 1m3T	10/ml/ml 0m03	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85/		65 - 865			85010 8 8/ 2s	850 80 8 5/ 24	655

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	10000		. m	g KOK	8	10/n7/ml 13:m6	10/ml/ml 06:61	5
PHG as Mtdtxg il Ranf e	7r 0		. m	g KOK	8	10/n7/ml 13:m6	10/ml/ml 06:61	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	8/ 8		65 - 865			850 30 8 842 :	850 s0 8 5: 2 8	6

Client Sample ID: S-80-g 7

Date Cdlle/ tec: 8098v918 80:v5

Date Re/ eihec: 80985918 80:80

Lab Sample ID: 570-72067-86

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	880		743	g KOK	8	10/1. /ml 1m3T	10/1. /ml 1. :05	m0
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	889		65 - 865			85010 8 8/ 2s	85010 8 8126	/ 5

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	100		73	g KOK	8	10/n7/ml 13:m6	10/ml/ml 06:5m	10
PHG as Mtdtxg il Ranf e	660		73	g KOK	8	10/n7/ml 13:m6	10/ml/ml 06:5m	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	8/ 6		65 - 865			850 30 8 842 :	850 s0 8 5: 2/	85

Client Sample ID: S-8135-g 7

Date Cdlle/ tec: 8098v918 80:50

Date Re/ eihec: 80985918 80:80

Lab Sample ID: 570-72067-87

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	80		142	g KOK	8	10/1. /ml 1m37	10/n0/ml 13:n8	1

EHroinRCalRcience NNC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-8135-g 7

Lab Sample ID: 570-72067-87

Date Cdlle/ tec: 809v918 80:50

Matxio: Sdllic

Date Re/ eihec: 8095918 80:80

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	s:		65 - 865	850810 8 8/ 243	850 50 8 842 4	8		
MetNdc: WT PHG-Do - WdxNVest - Semi- ( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup								
. nalAte	Result	UualiQex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
9PO aRDieRel f anKe	LD		56	g KOK	8	10/m7/ml 13:m6	10/m7/ml 03:13	1
PHG as Mtdtxg il Ranf e	800		56	g KOK	8	10/m7/ml 13:m6	10/m7/ml 03:13	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-7 Qat Qat ne (Surr)	889		65 - 865	850 30 8 842 :	850 s0 8 5424	8		

Client Sample ID: S-5-H6

Lab Sample ID: 570-72067-80

Date Cdlle/ tec: 809v918 80:55

Matxio: Sdllic

Date Re/ eihec: 8095918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4								
. nalAte	Result	UualiQex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	1100		150	g KOK	8	10/1. /ml 1m3T	10/ml/ml 01:30	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8: 8		65 - 865			850810 8 8/ 24s	850 80 8 58245	655
MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup								
. nalAte	Result	UualiQex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	8v00		. T	g KOK	8	10/m7/ml 13:m6	10/m7/ml 03:65	10
PHG as Mtdtxgil Ranf e	rr 0		. T	g KOK	8	10/m7/ml 13:m6	10/m7/ml 03:65	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	88s		65 - 865			850 30 8 842 :	850 s0 8 542 6	85

Client Sample ID: S-80-H6

Lab Sample ID: 570-72067-8r

Date Cdlle/ tec: 809v918 88:00

Matxio: Sdllic

Date Re/ eihec: 8095918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4								
. nalAte	Result	UualiQex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	130		041	g KOK	8	10/1. /ml 1m37	10/m0/ml 16:1m	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	851		65 - 865			850810 8 8/ 243	850 50 8 8 : 28/	8
MetNdc: WT PHG-Do - WdxNVest - Semi- ( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup								
. nalAte	Result	UualiQex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
9PO aRDieRel f anKe	LD		24T	g KOK	8	10/m7/ml 13:m6	10/m7/ml 03:55	1
PHG as Mtdtxg il Ranf e	81		24T	g KOK	8	10/m7/ml 13:m6	10/m7/ml 03:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qat Qat ne (Surr)	888		65 - 865			850 30 8 842 :	850 s0 8 5426	8

EHosnRCaRcience NNC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-8135-H6

Lab Sample ID: 570-72067-10

Date Cdlle/ tec: 8098v918 88:05

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNV est - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	630		m0	g K/K	8	10/1. /ml 1m37	10/m0/ml 13:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	s/		65 - 865			850 10 8 8/ 243	850 50 8 84243	8

MetNdc: WT PHG-Do - WdxNV est - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
9PO aRDieRel f anKe	LD		5.	g K/K	8	10/n7/ml 13:m6	10/m1/ml 05:12	1
PHG as Mdt dx g il Ranf e	800		5.	g K/K	8	10/n7/ml 13:m6	10/m1/ml 05:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	881		65 - 865			850 30 8 842 :	850 s0 8 56289	8

Client Sample ID: Pxp ElanB

Lab Sample ID: 570-72067-18

Date Cdlle/ tec: 8098v918 00:00

Matxio: T atex

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNV est - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
9PO aRGaRline (C3-C16)	LD		100	HK/N			10/m0/ml 00:m1	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63		65 - 865				850 50 8 552 s	8

Client Sample ID: kUE8

Lab Sample ID: 570-72067-11

Date Cdlle/ tec: 8098v918 00:00

Matxio: T atex

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNV est - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
9PO aRGaRline (C3-C16)	LD		100	HK/N			10/m0/ml 00:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		65 - 865				850 50 8 5523	8

MetNdc: WT PHG-Do - WdxNV est - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	850		. 2	HK/N		10/n0/ml 12:00	10/n2/ml 17:5m	1
9PO aRMotor u il f anKe	LD		. 2	HK/N		10/n0/ml 12:00	10/n2/ml 17:5m	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	8: 9		65 - 865			850 50 8 89255	850 90 8 8326/	8

Client Sample ID: S-135-g 2

Lab Sample ID: 570-72067-12

Date Cdlle/ tec: 8098v918 88:80

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNV est - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	236		045	g K/K	8	10/1. /ml 1m37	10/n0/ml 15:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85s		65 - 865			850 10 8 8/ 243	850 50 8 86288	8

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# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-135-g 2

Lab Sample ID: 570-72067-12

Date Cdlle/ tec: 8098v918 88:80

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	rr		246	g KOK	8	10/n7/ml 13:5m	10/n7/ml mm62	1
PHG as Mtdtxg il Ranf e	880		246	g KOK	8	10/n7/ml 13:5m	10/n7/ml mm62	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qat ne (Surr)	856		65 - 865			850 30 8 8426/	850 30 8 / / 2 9	8

Client Sample ID: S-5-g 2

Lab Sample ID: 570-72067-1v

Date Cdlle/ tec: 8098v918 88:85

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	8500		2T	g KOK	8	10/1. /ml 1m3T	10/ml/ml 11:06	n60
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65		65 - 865			85010 8 8/ 2s	850 80 8 8825:	/ 65

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Mtdtxg il Ranf e	820		747	g KOK	8	10/n7/ml 13:5m	10/n7/ml mm55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qat ne (Surr)	851		65 - 865			850 30 8 8426/	850 30 8 / / 26	8

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup - DL

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	2100		77	g KOK	8	10/n7/ml 13:5m	10/ml/ml 12:00	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qat ne (Surr)	888		65 - 865			850 30 8 8426/	850 s0 8 8925	85

Client Sample ID: S-735-g 2

Lab Sample ID: 570-72067-15

Date Cdlle/ tec: 8098v918 88:10

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	833		04mm	g KOK	8	10/1. /ml 1m37	10/n0/ml 16:62	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8/ 3		65 - 865			85010 8 8/ 243	850 50 8 8: 2 9	8

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualioex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	633		240	g KOK	8	10/n7/ml 13:5m	10/n7/ml n6:15	1
PHG as Mtdtxg il Ranf e	82		240	g KOK	8	10/n7/ml 13:5m	10/n7/ml n6:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qat ne (Surr)	15		65 - 865			850 30 8 8426/	850 30 8 / : 26	8

EHosnRCaIRcience NNC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-135-Hv

Lab Sample ID: 570-72067-16

Date Cdlle/ tec: 8098v918 88:15

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	150		62	g K/K	8	10/1. /ml 1m3T	10/ml/ml 10:30	m00
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		65 - 865			85010 8 8/ 2s	850 80 8 8525	/ 55

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	210		n7	g K/K	8	10/n7/ml 13:5m	10/n7/ml n6:62	5
PHG as Mtdtxg il Ranf e	500		n7	g K/K	8	10/n7/ml 13:5m	10/n7/ml n6:62	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	889		65 - 865			850 30 8 8426/	850 30 8 / : 2 9	6

Client Sample ID: S-5-Hv

Lab Sample ID: 570-72067-17

Date Cdlle/ tec: 8098v918 88:20

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	080		1n0	g K/K	8	10/1. /ml 1m3T	10/ml/ml 11:n7	500
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		65 - 865			85010 8 8/ 2s	850 80 8 882 3	655

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	020		54f	g K/K	8	10/n7/ml 13:5m	10/n7/ml n6:52	1
PHG as Mtdtxg il Ranf e	50		54f	g K/K	8	10/n7/ml 13:5m	10/n7/ml n6:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	853		65 - 865			850 30 8 8426/	850 30 8 / : 29	8

Client Sample ID: S-735-Hv

Lab Sample ID: 570-72067-10

Date Cdlle/ tec: 8098v918 88:25

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	v5		n0	g K/K	8	10/1. /ml 1m3T	10/n2/ml nm52	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69		65 - 865			85010 8 8/ 2s	850 90 8 / / 29	65

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	v2		63	g K/K	8	10/n7/ml 13:5m	10/ml/ml 00:15	5
PHG as Mtdtxg il Ranf e	1v0		63	g K/K	8	10/n7/ml 13:5m	10/ml/ml 00:15	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	85s		65 - 865			850 30 8 8426/	850 s0 8 55286	6

EHosnRCaIRcience NNC



# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-135-H1

Lab Sample ID: 570-72067-1r

Date Cdlle/ tec: 8098v918 88:v0

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	032		04m	g K/K	8	10/1. /ml 1m37	10/m0/ml 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	/ s	S8-	65 - 865	850810 8 8/ 23	850 50 8 8425	8

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	280		mT	g K/K	8	10/n7/ml 13:5m	10/mT/ml 00:65	5
PHG as Mdt dx g il Ranf e	620		mT	g K/K	8	10/n7/ml 13:5m	10/mT/ml 00:65	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	88/		65 - 865	850 30 8 8426/	850 s0 8 552 6	6

Client Sample ID: S-5-H1

Lab Sample ID: 570-72067-20

Date Cdlle/ tec: 8098v918 88:v5

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	8500		1n0	g K/K	8	10/1. /ml 1m3T	10/ml/ml 07:m	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		65 - 865	850810 8 8/ 2s	850 80 8 532 1	655

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Mdt dx g il Ranf e	8600		16	g K/K	8	10/n7/ml 13:5m	10/mT/ml 00:52	rr

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	856		65 - 865	850 30 8 8426/	850 s0 8 5529	/

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup - DL

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	vr00		26	g K/K	8	10/n7/ml 13:5m	10/mT/ml 12:m0	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qt Qbat ne (Surr)	8/ 8		65 - 865	850 30 8 8426/	850 s0 8 892 5	85

Client Sample ID: S-735-H1

Lab Sample ID: 570-72067-28

Date Cdlle/ tec: 8098v918 88:50

Matxio: Sdllic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as wasdline )Cv-C824	13		04m	g K/K	8	10/1. /ml 1m37	10/m0/ml nm6.	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	855		65 - 865	850810 8 8/ 23	850 50 8 / / 2 1	8

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/
PHG as Diesel Ranf e	810		13	g K/K	8	10/n7/ml 13:5m	10/mT/ml 01:17	rr
PHG as Mdt dx g il Ranf e	v20		13	g K/K	8	10/n7/ml 13:5m	10/mT/ml 01:17	rr

EHroinRCalRcience NNC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-735-H1

Date Cdlle/ tec: 809v918 88:50

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-28

Matxio: Sdllic

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-7 Qd Qbat ne (Surr)	885		65 - 865	850 30 8 8426/	850 s0 8 5823	/

Client Sample ID: S-135-g 8

Date Cdlle/ tec: 809v918 88:55

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-21

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4									
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/	
9PO aRGaRblne (C3-C16)	LD		0417	g K/K	8	10/1. /ml 1m37	10/m0/ml n6:06	1	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	855		65 - 865	85010 8 8/ 243	850 50 8 / : 25	8			

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/	
9PO aRDieRel f anKe	LD		51	g K/K	8	10/m7/ml 13:5m	10/mT/ml 01:62	10	
PHG as Mdt dx g il Ranf e	870		51	g K/K	8	10/m7/ml 13:5m	10/mT/ml 01:62	10	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-7 Qd Qbat ne (Surr)	853		65 - 865	850 30 8 8426/	850 s0 8 582 9	85			

Client Sample ID: S-5-g 8

Date Cdlle/ tec: 809v918 81:00

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-22

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4									
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/	
9PO aRGaRblne (C3-C16)	LD		0415	g K/K	8	10/1. /ml 1m37	10/m0/ml n6:n7	1	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	13		65 - 865	85010 8 8/ 243	850 50 8 / : 2 3	8			

MetNdc: WT PHG-Do - WdxNVest - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/	
9PO aRDieRel f anKe	LD		60	g K/K	8	10/m7/ml 13:5m	10/mT/ml 0m67	5	
PHG as Mdt dx g il Ranf e	77		60	g K/K	8	10/m7/ml 13:5m	10/mT/ml 0m67	5	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
n-7 Qd Qbat ne (Surr)	11		65 - 865	850 30 8 8426/	850 s0 8 5/ 2 3	6			

Client Sample ID: S-735-g 8

Date Cdlle/ tec: 809v918 81:05

Date Re/ eihec: 8095918 80:80

Lab Sample ID: 570-72067-2v

Matxio: Sdllic

MetNdc: WT PHG-wo - WdxNVest - ( dlatile Hetxdleum Hxdcu/ ts )wC4									
. nalAte	Result	Uualiqex	RL	z nit	D	Hxepaxec	. nalAFec	Dil ya/	
PHG as wasdline )Cv-C824	237		0411	g K/K	8	10/1. /ml 1m37	10/m0/ml n6:51	1	
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	33		65 - 865	85010 8 8/ 243	850 50 8 / : 28	8			

EHosnRCaIRcience NNC

# Client Sample Results

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613372030

Job ID: 570-76027-1

Client Sample ID: S-735-g 8

Lab Sample ID: 570-72067-2v

Date Cdlle/ tec: 8098v918 81:05

Matxio: Sdlic

Date Re/ eihec: 80985918 80:80

MetNdc: WT PHG-Do - WdxtNV est - Semi-( dlatile Hetxdleum Hxdcu/ ts )wC4- Sili/ a wel Cleanup

AnalAte	Result	QualiQex	RL	z nit	D	Hxepaxec	AnalAFec	Dil ya/
PHG as Diesel Ranf e	8v		24T	g KOK	8	10/n7/ml 13:5m	10/ml/ml 0m52	1
PHG as Mdt dx g il Ranf e	82		24T	g KOK	8	10/n7/ml 13:5m	10/ml/ml 0m52	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-7 Qat Qat ne (Surr)	853		65 - 865	850 30 8 8426/	850 s0 8 5/ 29	8		

# 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

Job ID: 570-73067-1

Project/Site: ExxonMobil ADC/0314476040

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

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)

Eurofins Calscience LLC



# QC Sample Results

2 10 e 2 nta i or li d

Job ID: 570-76097-4

, tot de p @ : / SSoi E obCx D2 P64M790M0

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

Lab Sample ID: MB 570-1875112

Matrix: Solid

3 nal/ sis Batch: 187511

Client Sample ID: Method Blank

Prep T/ pe: Total2N3

3 nal/ te	MB Result	MB Qualifier	RL	Anit	D	Prepared	3 nal/ yed	Dil 4ac
A, 3 n. mn. oCl g M246K	ND		580	THH			404.44 46:56	ND
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01				/ 17 52/ / : 30	21

Lab Sample ID: LCS 570-1875112

Matrix: Solid

3 nal/ sis Batch: 187511

Client Sample ID: Lab Control Sample

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits	
A, 3 n. mn. oCl g M246K	NIN	N106		THH		RR	77 - 4NG	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	/ 11		01 - / 01					

Lab Sample ID: LCSD 570-1875112

Matrix: Solid

3 nal/ sis Batch: 187511

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. mn. oCl g M246K	NIN	N1M0		THH		404	77 - 4NG	N	49
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 14		01 - / 01						

Lab Sample ID: MB 570-187z%72

Matrix: Solid

3 nal/ sis Batch: 187z%7

Client Sample ID: Method Blank

Prep T/ pe: Total2N3

3 nal/ te	MB Result	MB Qualifier	RL	Anit	D	Prepared	3 nal/ yed	Dil 4ac
A, 3 n. mn. oCl g M246K	ND		085	THH			404.44 47:0N	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58		01 - / 01				/ 17 52/ / 832	/

Lab Sample ID: LCS 570-187z%72

Matrix: Solid

3 nal/ sis Batch: 187z%7

Client Sample ID: Lab Control Sample

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits	
A, 3 n. mn. oCl g M246K	NIN	N155		THH		404	77 - 4NG	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	///		01 - / 01					

/ ( to)C. 2 n1 dCi dl uu2

# QC Sample Results

2 10 e 2 n tai or li d

Job ID: 570-76097-4

, tot de f @ : / SSoi E obCx D2 P64MM790M0

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

Lab Sample ID: LCSD 570-187zz%72

Matrix: Solid

3 nal/ sis Batch: 187zz%7

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. mn. oCl g M246K	N4N	N654		THH		444	77 - 4NG	R	49
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	18		01 - / 01						

Lab Sample ID: MB 570-187zz%25

Matrix: Water

3 nal/ sis Batch: 187zz%

Client Sample ID: Method Blank

Prep T/ pe: Total2N3

3 nal/ te	MB Result	MB Qualifier	RL	Anit	D	Prepared	3 nal/ yed	Dil 4ac
A, 3 n. mn. oCl g M246K	DD		400	(HR)			40R4 4G5N	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	06		01 - / 01				17 52/ / 932	/

Lab Sample ID: LCS 570-187zz%2

Matrix: Water

3 nal/ sis Batch: 187zz%

Client Sample ID: Lab Control Sample

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits	
A, 3 n. mn. oCl g M246K	N460	N0RR		(HR)		RR	79 - 4NG	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	5/		01 - / 01					

Lab Sample ID: LCSD 570-187zz%29

Matrix: Water

3 nal/ sis Batch: 187zz%

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. mn. oCl g M246K	N460	N444		(HR)		RR	79 - 4NG	4	40
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		01 - / 01						

Lab Sample ID: 570-7%6z6-D-. MS

Matrix: Water

3 nal/ sis Batch: 187zz%

Client Sample ID: Matrix Spike

Prep T/ pe: Total2N3

3 nal/ te	Sample Result	Sample Qualifier	Spike 3 dded	MS Result	MS Qualifier	Anit	D	U Rec	U Recf Limits	
A, 3 n. mn. oCl g M246K	DD		N460	N070		(HR)		R7	9R- 46N	
Surrogate	%Recovery	MS Qualifier	Limits							
4-Bromofluorobenzene (Surr)	95		01 - / 01							

/ ( to)C. 2 n1 dCi dl uu2

# QC Sample Results

2 10 e 2 n tai or li d

Job ID: 570-76097-4

, tot de p @ : / SSoi E obCx D2 P64MM790M0

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

Lab Sample ID: 570-7%6z6-D-. MSD

Matrix: Water

3 nal/ sis Batch: 187zz%

Client Sample ID: Matrix Spike Duplicate

Prep T/ pe: Total2N3

3 nal/ te	Sample Result	Sample Qualifier	Spike 3 dded	MSD Result	MSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. mn. oCl g M246K	ND		N460	N4ND		(H)		400	9R-46N	N	45
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	5/		01 - / 01								

Lab Sample ID: MB 570-1877782

Matrix: Solid

3 nal/ sis Batch: 187778

Client Sample ID: Method Blank

Prep T/ pe: Total2N3

3 nal/ te	MB Result	MB Qualifier	RL	Anit	D	Prepared	3 nal/ yed	Dil 4ac
A, 3 n. mn. oCl g M246K	ND		085	T H3 H			40RND4 44:07	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	5/		01 - / 01				/ 172172/ / / 318	/

Lab Sample ID: LCS 570-1877782

Matrix: Solid

3 nal/ sis Batch: 187778

Client Sample ID: Lab Control Sample

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits
A, 3 n. mn. oCl g M246K	N8IN	N8MG		T H3 H		404	77 - 4NG
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	/ 15		01 - / 01				

Lab Sample ID: LCSD 570-1877782

Matrix: Solid

3 nal/ sis Batch: 187778

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. mn. oCl g M246K	N8IN	N8ND		T H3 H		405	77 - 4NG	6	49
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 15		01 - / 01						

Lab Sample ID: MB 570-1880. 52 8

Matrix: Solid

3 nal/ sis Batch: 1880. 5

Client Sample ID: Method Blank

Prep T/ pe: Total2N3

3 nal/ te	MB Result	MB Qualifier	RL	Anit	D	Prepared	3 nal/ yed	Dil 4ac
A, 3 n. mn. oCl g M246K	ND		580	T H3 H			40RND4 06:0M	ND
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	50		01 - / 01				/ 172/ 72/ 1: 314	21

/ ( to)C. 2 n1 dCi dl uu2

# QC Sample Results

2 10 e 2 n tai or li d  
, tot de p @ : / SSoi E obCx D2 064MM790M0

Job ID: 570-76097-4

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

Lab Sample ID: LCS 570-1880. 52 5

Matrix: Solid

3 nal/ sis Batch: 1880. 5

Client Sample ID: Lab Control Sample

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits
A, 3 n. mn. oCl g M246K	N846	N86M7		T H3 H		440	77 - 4NG
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	/ 19		01 - / 01				

Lab Sample ID: LCSD 570-1880. 52 z

Matrix: Solid

3 nal/ sis Batch: 1880. 5

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. mn. oCl g M246K	N846	N86MR		T H3 H		440	77 - 4NG	0	49
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 19		01 - / 01						

Lab Sample ID: MB 570-18809. 2 z

Matrix: Solid

3 nal/ sis Batch: 18809.

Client Sample ID: Method Blank

Prep T/ pe: Total2N3

3 nal/ te	MB Result	MB Qualifier	RL	Anit	D	Prepared	3 nal/ yed	Dil 4ac
A, 3 n. mn. oCl g M246K	50		580	T H3 H			40PM4PM4 04:49	NO
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	50		01 - / 01				/ 172/ 72/ 1/ 3 6	21

Lab Sample ID: LCS 570-18809. 2 .

Matrix: Solid

3 nal/ sis Batch: 18809.

Client Sample ID: Lab Control Sample

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits
A, 3 n. mn. oCl g M246K	N846	N80N6		T H3 H		R5	77 - 4NG
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	/ 20		01 - / 01				

Lab Sample ID: LCSD 570-18809. 2 9

Matrix: Solid

3 nal/ sis Batch: 18809.

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Total2N3

3 nal/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. mn. oCl g M246K	N846	N8006		T H3 H		RM	77 - 4NG	4	49
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 2/		01 - / 01						

/ ( to)C. 2 n1 dCi dl uu2

# QC Sample Results

21 e 2 nta i or li d

Job ID: 570-76097-4

, tot de p @ : / SSoi E obCx D2 P64MM790M0

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

Lab Sample ID: MB 570-186. 712

Matrix: Solid

3 na/ sis Batch: 186. 71

Client Sample ID: Method Blank

Prep T/ pe: Total2N3

3 na/ te	MB Result	MB Qualifier	RL	Anit	D	Prepared	3 na/ yed	Dil 4ac
A, 3 n. mn. oCl g M246K	⊗D		580	T H3 H			40P0P4 4M69	ND
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		01 - / 01				/ 12672 / 43 6	21

Lab Sample ID: LCS 570-186. 712

Matrix: Solid

3 na/ sis Batch: 186. 71

Client Sample ID: Lab Control Sample

Prep T/ pe: Total2N3

3 na/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits	
A, 3 n. mn. oCl g M246K	N816	N806		T H3 H		RM	77 - 4NG	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	// 2		01 - / 01					

Lab Sample ID: LCSD 570-186. 712

Matrix: Solid

3 na/ sis Batch: 186. 71

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Total2N3

3 na/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. mn. oCl g M246K	N816	N804		T H3 H		RM	77 - 4NG	0	49
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 10		01 - / 01						

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

Lab Sample ID: MB 570-18801821-3

Matrix: Water

3 na/ sis Batch: 18767.

Client Sample ID: Method Blank

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 188018

3 na/ te	MB Result	MB Qualifier	RL	Anit	D	Prepared	3 na/ yed	Dil 4ac
A, 3 n. DC. l 1f ni H	⊗D		400	( H3 )		40P0P4 49:00	40P0P4 4R64	4
A, 3 n. E oet L 3f ni H	⊗D		400	( H3 )		40P0P4 49:00	40P0P4 4R64	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 19		01 - / 01			/ 1212 / 6311	/ 1212 / 53 /	/

Lab Sample ID: LCS 570-18801821-3

Matrix: Water

3 na/ sis Batch: 18767.

Client Sample ID: Lab Control Sample

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 188018

3 na/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits	
A, 3 n. DC. l 1g 40-2NG	M000	M0R7		( H3 )		40N	9G- 4ND	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	/ 12		01 - / 01					

/ ( to)C. 2 n1 dCi dl uu2

# QC Sample Results

2101 e 2 nta i or li d

Job ID: 570-76097-4

, tot de p @ : / SSoi E obCx D2 P64MM790M0

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

Lab Sample ID: LCS 570-1880182-3

Matrix: Water

3 nal/ sis Batch: 18767.

Client Sample ID: Lab Control Sample

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 188018

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit (H <sub>2</sub> O)	D	U Rec	U Recf Limits
A, 3 n. E oet L Gg 47-2 MK	M00	M66				40G	74 - 4NR
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	/ 10		01 - / 01				

Lab Sample ID: LCSD 570-1880182 -3

Matrix: Water

3 nal/ sis Batch: 18767.

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 188018

3 nal/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit (H <sub>2</sub> O)	D	U Rec	U Recf Limits	RPD Limit
A, 3 n. DC. I 1g 40-2 NGK	M00	M74				407	9G. 4ND	M ND
Surrogate	%Recovery	LCSD Qualifier	Limits					
n-Octacosane (Surr)	/ 1:		01 - / 01					

Lab Sample ID: LCSD 570-1880182-3

Matrix: Water

3 nal/ sis Batch: 18767.

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 188018

3 nal/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit (H <sub>2</sub> O)	D	U Rec	U Recf Limits	RPD Limit
A, 3 n. E oet L Gg 47-2 MK	M00	M74				407	74 - 4NR	4 ND
Surrogate	%Recovery	LCSD Qualifier	Limits					
n-Octacosane (Surr)	/ 14		01 - / 01					

Lab Sample ID: MB 570-18677. 21-3

Matrix: Solid

3 nal/ sis Batch: 186785

Client Sample ID: Method Blank

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 18677.

3 nal/ te	MB Result	MB Qualifier	RL	Anit	D	Prepared	3 nal/ yed	Dil 4ac
A, 3 n. DC. I 1f ni H	⊗D		580	T H <sub>2</sub> H		40R7R4 4MN6	40R7R4 4G49	4
A, 3 n. E oet L Gf ni H	⊗D		580	T H <sub>2</sub> H		40R7R4 4MN6	40R7R4 4G49	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	// 1		01 - / 01			/ 17287/ / 432	/ 17287/ / 936	/

Lab Sample ID: LCS 570-18677. 2%3

Matrix: Solid

3 nal/ sis Batch: 186785

Client Sample ID: Lab Control Sample

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 18677.

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit (H <sub>2</sub> O)	D	U Rec	U Recf Limits
A, 3 n. DC. I 1g 40-2 NGK	M00	M55		T H <sub>2</sub> H		444	79 - 4NR
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	///		01 - / 01				

/ ( to)C. 2 n1 dCi dl uu2



# QC Sample Results

2 10 e 2 nta i or li d  
, tot d p @ : / SSoi E ob Qx D2 064MM790M0

Job ID: 570-76097-4

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

Lab Sample ID: LCS 570-18677. 2-3

Matrix: Solid

3 nal/ sis Batch: 186785

Client Sample ID: Lab Control Sample

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 18677.

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits
A, 3 n. E oet L Qg 47-2 MK	M00	M78N		T H B H		40M	74 - 46R
Surrogate	%Recovery	LCS Qualifier	Limits				
n-Octacosane (Surr)	// 1		01 - / 01				

Lab Sample ID: LCSD 570-18677. 2 -3

Matrix: Solid

3 nal/ sis Batch: 186785

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 18677.

3 nal/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. DC. I 1g 40-2 NGK	M00	MNR		T H B H		444	79 - 4N9	4	NO
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	/ 15		01 - / 01						

Lab Sample ID: LCSD 570-18677. 2-3

Matrix: Solid

3 nal/ sis Batch: 186785

Client Sample ID: Lab Control Sample Dup

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 18677.

3 nal/ te	Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. E oet L Qg 47-2 MK	M00	M98		T H B H		40N	74 - 46R	6	NO
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-Octacosane (Surr)	/ 10		01 - / 01						

Lab Sample ID: 570-7. 0z7-7 MS

Matrix: Solid

3 nal/ sis Batch: 186785

Client Sample ID: S-17f5-M6

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 18677.

3 nal/ te	Sample Result	Sample Qualifier	Spike 3 dded	MS Result	MS Qualifier	Anit	D	U Rec	U Recf Limits
A, 3 n. DC. I 1g 40-2 NGK	ND		50M	5948		T H B H	o	444	67 - 475
Surrogate	%Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	/ 19		01 - / 01						

Lab Sample ID: 570-7. 0z7-7 MS

Matrix: Solid

3 nal/ sis Batch: 186785

Client Sample ID: S-17f5-M6

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 18677.

3 nal/ te	Sample Result	Sample Qualifier	Spike 3 dded	MS Result	MS Qualifier	Anit	D	U Rec	U Recf Limits
A, 3 n. E oet L Qg 47-2 MK	ND		MR7	MC98		T H B H	o	RG	74 - 47M
Surrogate	%Recovery	MS Qualifier	Limits						
n-Octacosane (Surr)	// 1		01 - / 01						

/ ( to)C. 2 n1 dCi dl uu2

# QC Sample Results

2 Di e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Cx D2 P64MM790M0

Job ID: 570-76097-4

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

Lab Sample ID: 570-7. 0z7-7 MSD

Matrix: Solid

3 nal/ sis Batch: 186785

Client Sample ID: S-17f5-M6

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 18677.

3 nal/ te	Sample Result	Sample Qualifier	Spike 3 dded	MSD Result	MSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. DC. I 1g 40-2 NGK	ND		MR6	5NGR		T H B H	o	407	67 - 475	9	ND
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	/ 16		01 - / 01								

Lab Sample ID: 570-7. 0z7-7 MSD

Matrix: Solid

3 nal/ sis Batch: 186785

Client Sample ID: S-17f5-M6

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 18677.

3 nal/ te	Sample Result	Sample Qualifier	Spike 3 dded	MSD Result	MSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. E oet L Gg 47-2 MKK	ND		507	M75B		T H B H	o	RM	74 - 47M	N	ND
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	/ 14		01 - / 01								

Lab Sample ID: MB 570-18678121-3

Matrix: Solid

3 nal/ sis Batch: 186856

Client Sample ID: Method Blank

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 186781

3 nal/ te	MB Result	MB Qualifier	RL	Anit	D	Prepared	3 nal/ yed	Dil 4ac
A, 3 n. DC. I 1f ni H	ND		5B	T H B H		40R7R4 4M5N	40R7R4 4RN4	4
A, 3 n. E oet L Gf ni H	ND		5B	T H B H		40R7R4 4M5N	40R7R4 4RN4	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	/ 19		01 - / 01			/ 17287/ / 432	/ 17287/ / 532/	/

Lab Sample ID: LCS 570-18678121-3

Matrix: Solid

3 nal/ sis Batch: 186856

Client Sample ID: Lab Control Sample

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 186781

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits	
A, 3 n. DC. I 1g 40-2 NGK	M00	M5N5		T H B H		446	79 - 4N9	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	/ 16		01 - / 01					

Lab Sample ID: LCS 570-18678121-3

Matrix: Solid

3 nal/ sis Batch: 186856

Client Sample ID: Lab Control Sample

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 186781

3 nal/ te	Spike 3 dded	LCS Result	LCS Qualifier	Anit	D	U Rec	U Recf Limits	
A, 3 n. E oet L Gg 47-2 MKK	M00	M07B		T H B H		40N	74 - 46R	
Surrogate	%Recovery	LCS Qualifier	Limits					
n-Octacosane (Surr)	/ 10		01 - / 01					

/ ( to)C. 2 n1 dCi dl uu2

# QC Sample Results

2 10 e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Qx D2 064MM790M0

Job ID: 570-76097-4

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

Lab Sample ID: LCSD 570-1867812 -3  
Matrix: Solid  
3 nal/ sis Batch: 186856

Client Sample ID: Lab Control Sample Dup  
Prep T/ pe: Silica Gel Cleanup  
Prep Batch: 186781

3 nal/ te			Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. DC. I 1g 40-2 NGK			M00	M6N84		T H B H		40G	79 - 4N9	5	NO
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	/ 12		01 - / 01								

Lab Sample ID: LCSD 570-1867812 -3  
Matrix: Solid  
3 nal/ sis Batch: 186856

Client Sample ID: Lab Control Sample Dup  
Prep T/ pe: Silica Gel Cleanup  
Prep Batch: 186781

3 nal/ te			Spike 3 dded	LCSD Result	LCSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. E oet L Gg 47-2 MKK			M00	M0983		T H B H		40N	74 - 46R	0	NO
Surrogate	%Recovery	LCSD Qualifier	Limits								
n-Octacosane (Surr)	/ 10		01 - / 01								

Lab Sample ID: 570-7. 0z7-% MS  
Matrix: Solid  
3 nal/ sis Batch: 186856

Client Sample ID: S-%5-O.  
Prep T/ pe: Silica Gel Cleanup  
Prep Batch: 186781

3 nal/ te	Sample Result	Sample Qualifier	Spike 3 dded	MS Result	MS Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. DC. I 1g 40-2 NGK	4M0		MRR	90785		T H B H		o RM	67 - 475		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	59		01 - / 01								

Lab Sample ID: 570-7. 0z7-% MS  
Matrix: Solid  
3 nal/ sis Batch: 186856

Client Sample ID: S-%5-O.  
Prep T/ pe: Silica Gel Cleanup  
Prep Batch: 186781

3 nal/ te	Sample Result	Sample Qualifier	Spike 3 dded	MS Result	MS Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. E oet L Gg 47-2 MKK	N00		MCR	5GND		T H B H		o 7R	74 - 47M		
Surrogate	%Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	/ 1/		01 - / 01								

Lab Sample ID: 570-7. 0z7-% MSD  
Matrix: Solid  
3 nal/ sis Batch: 186856

Client Sample ID: S-%5-O.  
Prep T/ pe: Silica Gel Cleanup  
Prep Batch: 186781

3 nal/ te	Sample Result	Sample Qualifier	Spike 3 dded	MSD Result	MSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. DC. I 1g 40-2 NGK	4M0		56G	99N8		T H B H		o R7	67 - 475	R	NO
Surrogate	%Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	/ 16		01 - / 01								

/ ( to)C. 2 n1 dCi dl uu2

# QC Sample Results

2 10i e 2 ntai or li d

Job ID: 570-76097-4

, tot det @ : / SSoi E obCx D2 064MM790M0

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

Lab Sample ID: 570-7. 0z7-% MSD

Matrix: Solid

3 nal/ sis Batch: 186856

Client Sample ID: S-%5-O.

Prep T/ pe: Silica Gel Cleanup

Prep Batch: 186781

3 nal/ te	Sample Result	Sample Qualifier	Spike 3 dded	MSD Result	MSD Qualifier	Anit	D	U Rec	U Recf Limits	RPD	RPD Limit
A, 3 n. E oæt L Gg 47-2 MK	N00		MG	9668		THH	o	R4	74 - 47M	G	ND
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	/ 11		01 - / 01								

/ ( to)C. 2 n1 dCi dl uu2

# QC Association Summary

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

Job ID: 570-73067-1

## GC VOA

### Analysis e atcpBh: 17hh

3a0 SamLRb II	CRbnt SamLRb II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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	

### DrbL e atcpBh: 1745

3a0 SamLRb II	CRbnt SamLRb II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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	

### DrbL e atcpBh: 1748

3a0 SamLRb II	CRbnt SamLRb II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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 e atcpBh: 1251

3a0 SamLRb II	CRbnt SamLRb II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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	

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-73067-1

## GC VOA

### Analysis e atcpBh: 1225

3a0 SamLRB II	CRBnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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 e atcpBh: 111:

3a0 SamLRB II	CRBnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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 e atcpBh: : 967

3a0 SamLRB II	CRBnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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 e atcpBh: : 986

3a0 SamLRB II	CRBnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
570-73067-2	S-5-M9	Total/NA	Solid	NWTPH-Gx	187594
570-73067-3	S-7.5-M9	Total/NA	Solid	NWTPH-Gx	187594
570-73067-4	S-10-M9	Total/NA	Solid	NWTPH-Gx	187594
570-73067-6	S-15-M9	Total/NA	Solid	NWTPH-Gx	187594
570-73067-9	S-5-L8	Total/NA	Solid	NWTPH-Gx	187594
570-73067-13	S-2.5-O7	Total/NA	Solid	NWTPH-Gx	187594
570-73067-15	S-7.5-O7	Total/NA	Solid	NWTPH-Gx	187594
570-73067-18	S-5-P6	Total/NA	Solid	NWTPH-Gx	187594
MB 570-188043/36	Method Blank	Total/NA	Solid	NWTPH-Gx	
LCS 570-188043/33	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
LCSD 570-188043/34	Lab Control Sample Dup	Total/NA	Solid	NWTPH-Gx	

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# QC Association Summary

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

Job ID: 570-73067-1

## GC VOA

### Analysis e atcpBh: 461h

3a0 SamLRB II	CRBnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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 Sbmi VOA

### Analysis e atcpBh: 1416

3a0 SamLRB II	CRBnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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

### DrbL e atcpBh: : 9h:

3a0 SamLRB II	CRBnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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 e atcpBh: 46: 8

3a0 SamLRB II	CRBnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
570-73067-22	EQB1	Silica Gel Cleanup	Water	NWTPH-Dx	188018

### DrbL e atcpBh: 4116

3a0 SamLRB II	CRBnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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 Sbmi VOA (Continubd)

### DrbL e atcpBh: 4116 (Continubd)

3a0 SamLRB II	CRbnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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	

### DrbL e atcpBh: 41: h

3a0 SamLRB II	CRbnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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 e atcpBh: 41: 7

3a0 SamLRB II	CRbnt SamLRB II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
570-73067-1	S-2.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-2	S-5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-2 - DL	S-5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-3	S-7.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-3 - DL	S-7.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-4	S-10-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-4 - DL	S-10-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773
570-73067-5	S-12.5-M9	Silica Gel Cleanup	Solid	NWTPH-Dx	189773

Eurofins Calscience LLC

# QC Association Summary

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

Job ID: 570-73067-1

## GC Sbmi VOA (Continubd)

### Analysis e atcpBh: 41: 7 (Continubd)

3a0 SamLRb II	CRbnt SamLRb II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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 e atcpBh: 4: 74

3a0 SamLRb II	CRbnt SamLRb II	DrbL TyLb	Matrix	Mbtpod	DrbL e atcp
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

Eurofins Calscience LLC

# 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								

Eurofins Calscience LLC

# Lab Chronicle

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

Job ID: 570-73067-1

**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**

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**

**Date Collected: 10/14/21 09:40**

**Date Received: 10/15/21 10:10**

**Lab Sample ID: 570-73067-5**

**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			4.851 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**

**Date Collected: 10/14/21 09:45**

**Date Received: 10/15/21 10:10**

**Lab Sample ID: 570-73067-6**

**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			4.506 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**

**Date Collected: 10/14/21 09:50**

**Date Received: 10/15/21 10:10**

**Lab Sample ID: 570-73067-7**

**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			6.976 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								

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# 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		1	5 g	5 mL	187627	10/20/21 04:49	P1R	ECL 2
		Instrument ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			5.01 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 02:30	N1A	ECL 1
		Instrument ID: GC48								

**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		500	5 mL	5 mL	188043	10/21/21 07:46	A9VE	ECL 2
		Instrument ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			5.60 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/28/21 02:50	N1A	ECL 1
		Instrument ID: GC48								

**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		100	5 mL	5 mL	188035	10/21/21 09:28	A9VE	ECL 2
		Instrument ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			7.64 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189785	10/28/21 03:11	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-7.5-O7**

**Lab Sample ID: 570-73067-15**

**Date Collected: 10/14/21 10:40**

**Matrix: Solid**

**Date Received: 10/15/21 10:10**

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		500	5 mL	5 mL	188043	10/21/21 02:04	A9VE	ECL 2
		Instrument ID: GC1								
Silica Gel Cleanup	Prep	3550C SGC			5.05 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/28/21 03:31	N1A	ECL 1
		Instrument ID: GC48								

# 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		20	5 mL	5 mL	187511	10/19/21 19:05	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.66 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189785	10/28/21 03:52	N1A	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	187778	10/20/21 14:24	P1R	ECL 2
		Instrument ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			4.57 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 04:14	N1A	ECL 1
		Instrument ID: GC48								

**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		500	5 mL	5 mL	188043	10/21/21 01:40	A9VE	ECL 2
		Instrument ID: GC1								
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		10			189785	10/28/21 04:35	N1A	ECL 1
		Instrument ID: GC48								

**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		1	5 g	5 mL	187778	10/20/21 13:12	P1R	ECL 2
		Instrument ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			9.51 g	10 mL	189773	10/27/21 14:23	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 04:55	N1A	ECL 1
		Instrument ID: GC48								

# 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								

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# 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								

Eurofins Calscience LLC

# Lab Chronicle

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

Job ID: 570-73067-1

**Client Sample ID: S-2.5-O1**

**Lab Sample ID: 570-73067-32**

**Date Collected: 10/14/21 11:55**

**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			5.017 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 23:03	P1R	ECL 2
		Instrument ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.43 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		10			189859	10/28/21 01:36	A1W	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-5-O1**

**Lab Sample ID: 570-73067-33**

**Date Collected: 10/14/21 12:00**

**Matrix: Solid**

**Date Received: 10/15/21 10:10**

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		1	5 g	5 mL	187778	10/20/21 23:27	P1R	ECL 2
		Instrument ID: GC53								
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		5			189859	10/28/21 02:37	A1W	ECL 1
		Instrument ID: GC50								

**Client Sample ID: S-7.5-O1**

**Lab Sample ID: 570-73067-34**

**Date Collected: 10/14/21 12:05**

**Matrix: Solid**

**Date Received: 10/15/21 10:10**

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		1	5 g	5 mL	187778	10/20/21 23:51	P1R	ECL 2
		Instrument ID: GC53								
Silica Gel Cleanup	Prep	3550C SGC			10.14 g	10 mL	189781	10/27/21 14:52	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189859	10/28/21 02:56	A1W	ECL 1
		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/0634471040

Job ID: 570-76017-3

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C931-38	30-32-22

1

2

3

4

5

6

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## 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

**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)

**Jennifer Sodalchok**


Project Name

ExxonMobil ADC / 0314476040

## CHAIN OF CUSTODY RECORD

DATE: 10/14/2021

PAGE: 1 OF 2.

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>		TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS		GLOBAL ID # COELT LOG CODE:		PROJECT CONTACT <b>Robert Thompson</b> SAMPLER(S): <b>Paul Prevou, Cameron Penner-Ash, John Considine</b>		P O 0314476040 Agreement# A2604415					
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input checked="" 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. 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						 570-73067 Chain of Custody									
LAB USE ONLY						COOLER RECEIPT									
Temp: _____ °C															
SAMPLE ID						FIELD POINT NAME		SAMPLING DATE		MAT. RIX		NO. OF CONT.			
1 S-2.5-M9						S-2.5-M9		10/14/2021		0920		S		4	
2 S-5-M9						S-5-M9		10/14/2021		0925		S		4	
3 S-7.5-M9						S-7.5-M9		10/14/2021		0930		S		4	
4 S-10-M9						S-10-M9		10/14/2021		0935		S		4	
5 S-12.5-M9						S-12.5-M9		10/14/2021		0940		S		4	
6 S-15-M9						S-15-M9		10/14/2021		0945		S		4	
7 S-17.5-M9						S-17.5-M9		10/14/2021		0950		S		4	
8 S-2.5-L8						S-2.5-L8		10/14/2021		0955		S		4	
9 S-5-L8						S-5-L8		10/14/2021		1000		S		4	
10 S-7.5-L8						S-7.5-L8		10/14/2021		1005		S		4	
11 S-10-L8						S-10-L8		10/14/2021		1010		S		4	
12 S-12.5-L8						S-12.5-L8		10/14/2021		1015		S		4	
13 S-15-L8						S-15-L8		10/14/2021		1030		S		4	
14 S-17.5-L8						S-17.5-L8		10/14/2021		1035		S		4	
15 S-2.5-P6						S-2.5-P6		10/14/2021		1040		S		4	
16 S-5-P6						S-5-P6		10/14/2021		1045		S		4	
17 S-7.5-P6						S-7.5-P6		10/14/2021		1050		S		4	
18 S-10-P6						S-10-P6		10/14/2021		1055		S		4	
19 S-12.5-P6						S-12.5-P6		10/14/2021		1100		S		4	
20 S-15-P6						S-15-P6		10/14/2021		1105		S		4	
21 Trip Blank						Trip Blank		10/14/2021							
22 EQB1						EQB1		10/14/2021							
23 EQB1						EQB1		10/14/2021							
24 Trip Blank						Trip Blank		10/14/2021							
25 EQB1						EQB1		10/14/2021							
26 EQB1						EQB1		10/14/2021							
27 EQB1						EQB1		10/14/2021							
28 EQB1						EQB1		10/14/2021							
29 EQB1						EQB1		10/14/2021							
30 EQB1						EQB1		10/14/2021							
31 EQB1						EQB1		10/14/2021							
32 EQB1						EQB1		10/14/2021							
33 EQB1						EQB1		10/14/2021							
34 EQB1						EQB1		10/14/2021							
35 EQB1						EQB1		10/14/2021							
36 EQB1						EQB1		10/14/2021							
37 EQB1						EQB1		10/14/2021							
38 EQB1						EQB1		10/14/2021							
39 EQB1						EQB1		10/14/2021							
40 EQB1						EQB1		10/14/2021							
41 EQB1						EQB1		10/14/2021							
42 EQB1						EQB1		10/14/2021							
43 EQB1						EQB1		10/14/2021							
44 EQB1						EQB1		10/14/2021							
45 EQB1						EQB1		10/14/2021							
46 EQB1						EQB1		10/14/2021							
47 EQB1						EQB1		10/14/2021							

2.0/2.9 505



**Calscience**  
7440 LINCOLN WAY  
GARDEN GROVE, CA  
TEL: (714) 895-5494

	<b>Site Name</b>	
	Provide MRN	
	Retail Project	
	Major Project	
	Project Name	

Everett Bulk Plant  
objects  
ADC / 031447604

CHAIN OF CUSTODY RECORD

DATE:	10/14/2021
PAGE: 2	OF 7

**ExxonMobil Engr.** **Jennifer Sedlachek**

LABORATORY CLIENT		GLOBAL ID # COELEY LOG CODE:		P O 0314476040, Agreement# A2604415	
Cardno		PROJECT CONTACT		LAB USE ONLY	
ADDRESS		Robert Thompson		COOLER RECEIPT	
CITY		SAMPLER(S): Paul Prevou, Cameron Penner-Ash, John		Temp: °C	
TEL		Considine			
TURNAROUND TIME					
206-510-5855					
FAX					
N/A					
robert.thompson@cardno.com					
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					
LAB USE ONLY		SAMPLE ID		Field Point Name	
NO. OF CONT		MAT. RIX		TIME	
DATE		DATE		DATE	
10/14/2021		1110		S	
10/14/2021		1115		S	
10/14/2021		1120		S	
10/14/2021		1125		S	
10/14/2021		1130		S	
10/14/2021		1135		S	
10/14/2021		1140		S	
10/14/2021		1145		S	
10/14/2021		1150		S	
10/14/2021		1155		S	
10/14/2021		1200		S	
10/14/2021		1205		S	
10/14/2021		1210		S	
10/14/2021		1215		S	
10/14/2021		1220		S	
10/14/2021		1225		S	
10/14/2021		1230		S	
10/14/2021		1235		S	
10/14/2021		1240		S	
10/14/2021		1245		S	
10/14/2021		1250		S	
10/14/2021		1255		S	
10/14/2021		1300		S	
10/14/2021		1305		S	
10/14/2021		1310		S	
10/14/2021		1315		S	
10/14/2021		1320		S	
10/14/2021		1325		S	
10/14/2021		1330		S	
10/14/2021		1335		S	
10/14/2021		1340		S	
10/14/2021		1345		S	
10/14/2021		1350		S	
10/14/2021		1355		S	
10/14/2021		1360		S	
10/14/2021		1365		S	
10/14/2021		1370		S	
10/14/2021		1375		S	
10/14/2021		1380		S	
10/14/2021		1385		S	
10/14/2021		1390		S	
10/14/2021		1395		S	
10/14/2021		1400		S	
10/14/2021		1405		S	
10/14/2021		1410		S	
10/14/2021		1415		S	
10/14/2021		1420		S	
10/14/2021		1425		S	
10/14/2021		1430		S	
10/14/2021		1435		S	
10/14/2021		1440		S	
10/14/2021		1445		S	
10/14/2021		1450		S	
10/14/2021		1455		S	
10/14/2021		1460		S	
10/14/2021		1465		S	
10/14/2021		1470		S	
10/14/2021		1475		S	
10/14/2021		1480		S	
10/14/2021		1485		S	
10/14/2021		1490		S	
10/14/2021		1495		S	
10/14/2021		1500		S	
10/14/2021		1505		S	
10/14/2021		1510		S	
10/14/2021		1515		S	
10/14/2021		1520		S	
10/14/2021		1525		S	
10/14/2021		1530		S	
10/14/2021		1535		S	
10/14/2021		1540		S	
10/14/2021		1545		S	
10/14/2021		1550		S	
1					

# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-76017-3

Login Number: 73067

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Question	Answer	Comment
/ adioactiAtRv aynwsec' ed or iy hK bac' =round ay meayured bRa yurAeR meterg		
. se coolery cuytodRyeal, iTf reyent, iy intactg		
pamf le cuytodRyealy, iTf reyent, are intactg		
. se cooler or yamf ley do not af f ear to saAe been comf romiyed or tamf ered v itsg		
pamf ley v ere receiAed on iceg		
Cooler . emf erature iy accef tableg		
Cooler . emf erature iy recordedg		
CSC iy f reyentg		
CSC iy Tiled out in in' and le=ibleg		
CSC iy Tiled out v its all f ertinent inTormationg		
Iy tse Qeld pamf lery name f reyent on CSCF		
. sere are no diycref ancley betv een tse containery receiAed and tse CSCg		
pamf ley are receiAed v itsin ? oldin= . ime H(cludin= teyty v its immediate ? . yx		
pamf le containery saAe le=ible labelyg		
Containery are not bro' en or lea' in=g		
pamf le collection datekimey are f roAidedg		
) f f rof riate yamf le containery are uyedg		
pamf le bottley are comf letelRTiledg		
pamf le PreyerAation VeriTedg		
. sere iy yuTticient AolgTr all requeyted analRyey, inclganRrequeyted MpMpDy		
Containery requirin= zero seadyf ace saAe no seadyf ace or bubble iy h1mm H3k4"yg		
Multif sayic yamf ley are not f reyentg		
pamf ley do not require yf littin= or comf oyitin=g		
/ eyidual Cslorine Csec' edg		

## 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

## 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.
□	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

## Job ID: 570-73077-1

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-73077-1

#### Comments

No additional comments.

#### Revision

The report being provided is a revision of the original report sent on 10/29/2021. The report (revision 1) is being revised due to: Sample IDs were listed incorrectly on the COC for samples S-5QS (570-73077-1), S-7.5-QS (570-73077-2), S-7.5-QS DUP (570-73077-3) and S-7.5-R5 (570-73077-4). Sample IDs have been corrected to S-5Q5, S-7.5-Q5, 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

4 20 i: 4 ert l oall r  
dm,QriP1C: j // ol Sob 2ED4 d69xx7Mx0

Job ID: 570-76077-9

## Client Sample ID: S-5-Q5

## Lab Sample ID: 570-73077-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 x-4 96G	9(5		0() 5	. mgm	9	A	KN 3d <sup>+</sup> H/	3oie2KE
3d <sup>+</sup> eT SoionW2Oel nC	lp		69	. mgm	5	A	KN 3d <sup>+</sup> D/	P 2e HC2 4 2el Ru

## Client Sample ID: S-7.5-Q5

## Lab Sample ID: 570-73077-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 x-4 96G	0(x5		0() 9	. mgm	9	A	KN 3d <sup>+</sup> H/	3oie2KE

## 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
3d <sup>+</sup> eT HeTo2 Cs4 x-4 96G	0(xx		0() 0	. mgm	9	A	KN 3d <sup>+</sup> H/	3oie2KE

## Client Sample ID: S-7.5-R5A

## Lab Sample ID: 570-73077-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 x-4 96G	) (9		0() 9	. mgm	9	A	KN 3d <sup>+</sup> H/	3oie2KE

## Client Sample ID: S-5-R4

## Lab Sample ID: 570-73077-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 x-4 96G	x(7		0() M	. mgm	9	A	KN 3d <sup>+</sup> H/	3oie2KE
3d <sup>+</sup> eT SoionW2Oel nC	x0		M6	. mgm	9	A	KN 3d <sup>+</sup> D/	P 2e HC2 4 2el Ru

## Client Sample ID: S-7.5-R4

## Lab Sample ID: 570-73077-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
3d <sup>+</sup> eT HeTo2 Cs4 x-4 96G	9(7		0() 9	. mgm	9	A	KN 3d <sup>+</sup> H/	3oie2KE
3d <sup>+</sup> eT SoionW2Oel nC	) M0		) 8	. mgm	5	A	KN 3d <sup>+</sup> D/	P 2e HC2 4 2el Ru

## Client Sample ID: Trip Blank

## Lab Sample ID: 570-73077-7

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# Client Sample Results

10 en 1 t a eodle,  
cæP, rj/ lri : SEEex oblQMD1j062AA730A0

Job ID: 570-76077-2

**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		04n5	g KJOK	8	20j2. jn2 2T:m	20j2Tjn2 25:60	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		05 - 105			15/17/21 1: 32	15/1:/21 1035	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hcs t RDli R QNt eKi	9D		62	g KJOK	8	20jn7jn2 2T:m	20jm jn2 0.:nA	5
TPH as Motor Oil Range	68		62	g KJOK	8	20jn7jn2 2T:m	20jm jn2 0.:nA	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	150		05 - 105			15/2s/21 1: 37	15/27/21 5734	0

**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		04n2	g KJOK	8	20j2. jn2 2T:m	20j2Tjn2 25:5A	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	s5		05 - 105			15/17/21 1: 32	15/1:/21 1034	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hcs t RDli R QNt eKi	9D		346	g KJOK	8	20jn7jn2 2T:m	20jm jn2 0T:n7	2
Hcs t Rx orpaOIQNt eKi	9D		346	g KJOK	8	20jn7jn2 2T:m	20jm jn2 0T:n7	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	15:		05 - 105			15/2s/21 1: 37	15/27/21 5: 3s	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		04n0	g KJOK	8	20j2. jn2 2T:m	20j2Tjn2 23:27	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		05 - 105			15/17/21 1: 32	15/1:/21 183s	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hcs t RDli R QNt eKi	9D		543	g KJOK	8	20jn7jn2 2T:m	20jm jn2 0T:A7	2
Hcs t Rx orpaOIQNt eKi	9D		543	g KJOK	8	20jn7jn2 2T:m	20jm jn2 0T:A7	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	15s		05 - 105			15/2s/21 1: 37	15/27/21 5: 3s	1

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# Client Sample Results

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cæP, rj/ lri : SEEex oblQMD1j062AA730A0

Job ID: 570-76077-2

**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		04n2	g KJOK	8	20j2. jn2 2T:m	20j2Tjn2 27:n7	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		05 - 105			15/17/21 1: 32	15/1:/21 1s3s	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hcs t RDli R QNt eKi	9D		340	g KJOK	8	20jn7jn2 2T:m	20jm jn2 20:0.	2
Hcs t Rx orpaOIQNt eKi	9D		340	g KJOK	8	20jn7jn2 2T:m	20jm jn2 20:0.	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	15:		05 - 105			15/2s/21 1: 37	15/27/21 1537	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		04n8	g KJOK	8	20j2. jn2 2T:m	20j2Tjn2 23:A0	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	s1		05 - 105			15/17/21 1: 32	15/1:/21 18345	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hcs t RDli R QNt eKi	9D		346	g KJOK	8	20jn7jn2 2T:m	20jm jn2 20:60	2
TPH as Motor Oil Range	40		346	g KJOK	8	20jn7jn2 2T:m	20jm jn2 20:60	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	115		05 - 105			15/2s/21 1: 37	15/27/21 1535	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		04n2	g KJOK	8	20j2. jn2 2T:m	20j2Tjn2 27:0A	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 5		05 - 105			15/17/21 1: 32	15/1:/21 1s34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hcs t RDli R QNt eKi	9D		mT	g KJOK	8	20jn7jn2 2T:m	20jm jn2 20:50	5
TPH as Motor Oil Range	260		mT	g KJOK	8	20jn7jn2 2T:m	20jm jn2 20:50	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
n-9 Qat Qat ne (Surr)	15s		05 - 105			15/2s/21 1: 37	15/27/21 1535	0

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# Client Sample Results

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cæP, rj/ lri : SEEex oblQMD1j062AA730A0

Job ID: 570-76077-2

**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
Hcs t RGt Rbæi (1 A-1 26)	9 D		200	uKjL			20jn0jn2 02:n8	2
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	08		05 - 105				15/25/21 5138	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

Eurofins Calscience LLC

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

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dm, QidP1C: j // ol Sob 2ED4 d69xx7Mx0

Job ID: 570-76077-9

## 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
Ad3 e. me. o2l Cg4 x-4 96K	ND		08T5	HsdRs			90dNt9 9x:x0	9
Surrogate	%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
Ad3 e. me. o2l Cg4 x-4 96K	T8T	T806		HsdRs		NN	77 - 9TG
Surrogate	%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
Ad3 e. me. o2l Cg4 x-4 96K	T8T	T8x0		HsdRs		909	77 - 9TG	T	9M
Surrogate	%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
Ad3 e. me. o2l Cg4 x-4 96K	ND		900	(sq)			90dNt9 9G5T	9
Surrogate	%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
Ad3 e. me. o2l Cg4 x-4 96K	T960	T0NN		(sq)		NN	7M- 9TG
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	91		50 - 150				

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# QC Sample Results

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dm, QidP1C: j // ol Sob 2ED4 d069xx7Mx0

Job ID: 570-76077-9

## 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
Ad3 e. me. o2l Cg4 x-4 96K	T960	T999		(sq)		NN	7M- 9TG	9	90
Surrogate	%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	RPD	RPD Limit
Ad3 e. me. o2l Cg4 x-4 96K	ND		T960	T070		(sq)		N7	MN- 96T		
Surrogate	%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
Ad3 e. me. o2l Cg4 x-4 96K	ND		T960	T9T0		(sq)		900	MN- 96T	T	95
Surrogate	%Recovery	MSD Qualifier	Limits								
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
Ad3 e. DTC. C2f el sC	ND		580	HsRs		90d7d9 9N: TG	90d7d9 T9: 9N	9
Ad3 e. SoionL 2f el sC	ND		580	HsRs		90d7d9 9N: TG	90d7d9 T9: 9N	9
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
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
Ad3 e. DTC. C2g4 90-4 TCK	x00	x6687		HsRs		90G	7M- 9TM		
Surrogate	%Recovery	LCS Qualifier	Limits						
n-Octacosane (Surr)	112		50 - 150						

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# QC Sample Results

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dm,QriP1C:j // ol Sob 2ED4 d069xx7M0x0

Job ID: 570-76077-9

## 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		
Ad3 e. SoionL 2g4 97-4 xxK			x00	xx68		HsdRs		999	79 - 96N		
Surrogate			LCS %Recovery	LCS Qualifier	Limits						
n-Octacosane (Surr)			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

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ad3 e. D.C. C2g4 90-4 TGK			x00	x5083		HsdRs		996	7M- 9TM	x	T0
Surrogate	%Recovery	LCSD	Limits								
n-Octacosane (Surr)	112	Qualifier	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

				Spike	LCSD	LCSD				%Rec.	RPD	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ad3 e. SoionL 2g4 97-4 xxK				x00	xTM8		HsdRs		907	79 - 96N	x	T0
Surrogate		LCSD	LCSD									
n-Octacosane (Surr)		%Recovery	Qualifier	Limits								
		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		
Ad3 e. D.C. C2g4 90-4 TGK	ND		xNT	5x98k		HsdRs	o	990	67 - 975		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	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		
	Ad3 e. SoionL 2g4 97-4 xxK	ND	xNM	59M7		HsdRs	o	90x	79 - 97x		
Surrogate	MS %Recovery	MS Qualifier	Limits								
n-Octacosane (Surr)	114		50 - 150								

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# QC Sample Results

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dmp, Q i d P1C: j // ol S ob 2ED4 d069xx7M0x0

Job ID: 570-76077-9

## 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ad3 e. DTC C2g4 90-4 TCK	ND		x00	5xT8N		HsdRs	o	996	67 - 975	0	T0
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ad3 e. SoionL 2g4 97-4 xxK	ND		xN6	5658G		HsdRs	o	90N	79 - 97x	x	T0
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-Octacosane (Surr)	110		50 - 150								

j (roul . 4e2r 1 rC))4

# 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	

Eurofins Calscience LLC

## 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**

**Date Collected: 10/15/21 11:15**

**Date Received: 10/16/21 12:00**

**Lab Sample ID: 570-73077-1**

**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			6.029 g	5 g	187400	10/18/21 19:29	YZL3	ECL 2
Total/NA	Analysis	NWTPH-Gx		1	5 g	5 mL	187511	10/19/21 15:30	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.75 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/28/21 08:24	N1A	ECL 1
		Instrument ID: GC48								

**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**

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		1	5 g	5 mL	187511	10/19/21 15:54	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.76 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 09:27	N1A	ECL 1
		Instrument ID: GC48								

**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**

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		1	5 g	5 mL	187511	10/19/21 16:17	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			10.68 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 09:47	N1A	ECL 1
		Instrument ID: GC48								

**Client Sample ID: S-7.5-R5A**

**Date Collected: 10/15/21 12:15**

**Date Received: 10/16/21 12:00**

**Lab Sample ID: 570-73077-4**

**Matrix: Solid**

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		1	5 g	5 mL	187511	10/19/21 17:27	P1R	ECL 2
		Instrument ID: GC57								
Silica Gel Cleanup	Prep	3550C SGC			9.58 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 10:08	N1A	ECL 1
		Instrument ID: GC48								

# 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		1	5 g	5 mL	187511	10/19/21 16:40	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			10.43 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		1			189785	10/28/21 10:30	N1A	ECL 1
Instrument ID: GC48										

**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		1	5 g	5 mL	187511	10/19/21 17:04	P1R	ECL 2
Instrument ID: GC57										
Silica Gel Cleanup	Prep	3550C SGC			9.84 g	10 mL	189870	10/27/21 19:28	N5Y3	ECL 1
Silica Gel Cleanup	Analysis	NWTPH-Dx		5			189785	10/28/21 10:50	N1A	ECL 1
Instrument ID: GC48										

**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		1	5 mL	5 mL	187662	10/20/21 01:26	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  
3roPctj/ ite: SEEnx obil MDCj061AA740A0

Job ID: 570-76077-1

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	/ tate	C914-18	10-12-22

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

# Method Summary

4 20 i: 4 ert l oall r

dm,Q i d P1C: j // ol S ob 2ED4 d69xx7M0x0

Job ID: 570-76077-9

Method	Method Description	Protocol	Laboratory
A3 NdWT/	AoriHGChi - wo2i1C dQro2sV drot srih uT 4 m	A3 NdW	j 4( )
A3 NdWD/	AoriHGChi - PCV t wo2i1C dQro2sV drot srih uT 4 m	A3 NdW	j 4( 9
65504 PT4	8 2rehol t j /ireri'bl	P3 LxM	j 4( 9
50604	dsrUCel t Nrey	P3 LxM	j 4( )
5065	4 2hQ PgbiCV dsrUCel t Nrey	P3 LxM	j 4( )

## Protocol References:

A3 NdWp AoriHGChi Nbie2dQro2sV Wgt rorerbol

P3 LxMp AChi S QHbt h " onj Fe2ei1 UPo2 3 ehiCadHgt e24 HCV f e2S QHbt h aNHft j t 1bl aAoFCV bCh9vLMEI t lih 8 yt eiCh.

## Laboratory References:

j 4( 9 p j smf1 h 4 e2r Q rC(( 4 ( 1 ro2 a7xx0 ( 1 ro2 3 egaTert Q T r oFCa4 E v) Lx9aNj ( u79xr h v5-5xvx

j 4( ) p j smf1 h 4 e2r Q rC(( 4 ( eV yhol a7xx5 ( eV yhol EFCaTert Q T r oFCa4 E v) Lx9aNj ( u79xr h v5-5xvx

j smf1 h 4 e2r Q rC(( 4

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)

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73077

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CARDNO  
309 S CLOVERDALE ST  
A13  
SEATTLE, WA 98108  
UNITED STATES US

SHIP DATE: 15OCT21  
ACTWGT: 29.05 LB  
CAD: 6993779/SSFE2220  
DIMS: 24x14x14 IN  
BILL THIRD PARTY

0 CALSCIENCE ENVIRONMENTAL LAB

CUSTODY

Date: 10-15-21  
Signature: [Signature]

1 Open pre-sealed.

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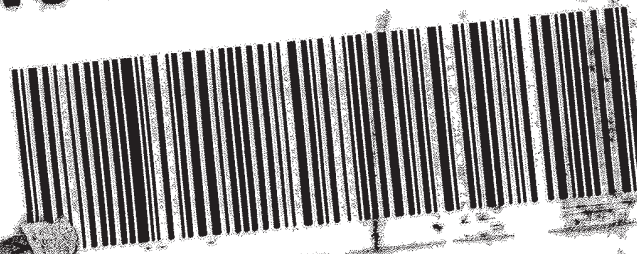
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SATURDAY 12:00P  
PRIORITY OVERNIGHT

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92841  
CA-US SNA



Place a copy  
inside the  
shipper's  
flap. Follow  
the packa  
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# Login Sample Receipt Checklist

Client: Cardno, Inc

Job Number: 570-76077-1

Login Number: 73077

List Source: Eurofins Calscience LLC

List Number: 1

Creator: Ramos, Maribel

Question	Answer	Comment
AadioactiRtv y awn& c' eched or iwk3- bach=round awmeasured by a wurRev meterg	N3	
. ' e coolersvcuwtodv weal, iTf rewent, iwintactg	. rue	
pamf le cuwtodv wealw, iTf rewent, are intactg	. rue	
. ' e cooler or vamf lewdo not af f ear to ' aRe been comf romiwe or tamf ered y it' g	. rue	
pamf lewy ere receiRed on iceg	. rue	
Cooler . emf erature iwaccef tableg	. rue	
Cooler . emf erature iwrecordedg	. rue	
CSC iw f rewentg	. rue	
CSC iwTiled out in inh and le=ibleg	. rue	
CSC iwTiled out y it' all f ertinent inTormationg	. rue	
Iwt' e Qeld pamf lersvname f rewent on CSCF	. rue	
. ' ere are no diwcref anciewbety een t' e containerwreceiRed and t' e CSCg	. rue	
pamf leware receiRed y it' in ? oldin= . ime He(cludin= tewtwy it' immediate ? . vx	. rue	
pamf le containerw' aRe le=ible labelwg	. rue	
Containerware not brohen or leahin=g	. rue	
pamf le collection date3imeware f roRdedg	. rue	
/ f f rof riate vamf le containerware uwedg	. rue	
pamf le bottleware comf letelv Tiledg	. rue	
pamf le ) reverRation PeriTedg	. rue	
. ' ere iwvutTicient RblgTr all reVuewted analvwew, inclganv reVuewted q p3q pMw	. rue	
ContainerwreVuirin= Dero ' eadwf ace ' aRe no ' eadwf ace or bubble iw kzmm H34"xg	. rue	
q ultif ' awic vamf leware not f rewentg	. rue	
pamf lewdo not reVuire wf littin= or comf owitin=g	. rue	
Aewidual C' lorine C' echedg	N3	



## 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**

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[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

1 0 en 1 t a eodle,  
c aP, rj/ lri : SEEex oblQMD1j064AA730A0

Job ID: 570-76078-4

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Llsri r uer i arhi "D", oQme rø r i slget ri rht nrhi a suQls a poari r oe t r ay wi lghnbt sls
%R	ci a i enRi , ovi ay
1 FL	1 oert les Fa i Lliquir
1 FU	1 oQey Foamleg Ueln
1 NF	1 oert les No Fa i Lliquir
DSR	DupQ, t ri SæaRt rlo (eoamt Qi r t bsoQri r lffi a e, i )
DIQft ,	DIQrloe Ft , røa
DL	Di ri , rloe Llmln(DoDjDOS)
DLdRMdRSdIN	Ier l, t ri s t DIQrloedRi -t et QslsdRi -i Ert , rloedat r r lroet Qelrit Qmi rt Qjt eloe t et Qsls of rhi st mpC
DL1	Di , lsloe Li vi Cl oe, i eræ rloe (Rt r lo, hi mlsræ)
SDL	Ssrlmt ri r Di ri , rloe Llmln(DloBe)
LOD	Llmlnof Di ri , rloe (DoDjDOS)
LOQ	Llmlnof Qut erit rloe (DoDjDOS)
x 1 L	ScMä , ommi er i r "x t Bmum 1 oert mlet enLi vi C
x DM	x lelmum Di ri , rt bC M, rlvry (Rt r lo, hi mlsræ)
x D1	x lelmum Di ri , rt bC 1 oe, i eræ rloe (Rt r lo, hi mlsræ)
x DL	x i rhor Di ri , rloe Llmln
x L	x lelmum Li vi Q(DloBe)
x cN	x osncæbt bC Numbi a
x QL	x i rhor Qut erit rloe Llmln
N1	Non1 t CuCni r
ND	NonDi ri , ri r t nrhi a poarleg QmIn(oax DL oaSDL lf showe)
NSG	Ni gt rivi j Mbsi en
cO/	coslrivi j cä si en
cQL	cä , ri, t QQut erit rloe Llmln
cRS/	cä sumprivi
Q1	Qut Qy 1 oeræC
RSR	Ri Crivi SæaRt rlo (Rt r lo, hi mlsræ)
RL	Ri poarleg LlmlnoaRi qui sri r Llmln(Rt r lo, hi mlsræ)
RcD	Ri Crivi ci a i enDlffi a e, i dt mi t sua of rhi a Crivi r lffi a e, i bi rwi i e rwo polers
TSF	ToE, lry Squlv t CenFt , røa(DloBe)
TSQ	ToE, lry Squlv t CenQuorti en(DloBe)
TNT1	Too Numi æus To 1 ouen

# Case Narrative

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

Job ID: 570-73078-1

## Job ID: 570-73078-1

### Laboratory: Eurofins Calscience LLC

#### Narrative

#### Job Narrative 570-73078-1

#### Comments

No additional comments.

#### Revision

The report being provided is a revision of the original report sent on 11/1/2021. The report (revision 1) is being revised due to: Sample IDs for S-7.5-D1 (570-73078-17) and S-10-D1 (570-73078-18) were listed incorrectly on the COC. Sample IDs have been corrected to S-7.5-D1A and S-10-D1A respectively.

#### Receipt

The samples were received on 10/16/2021 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

#### GC VOA

Method NWTPH-GX: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-188567. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method NWTPH-Gx: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 570-189544. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

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

#### GC Semi VOA

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

#### General Chemistry

Method Moisture: The sample duplicate (DUP) precision for analytical batch 570-187624 was outside control limits. Sample non-homogeneity is suspected.

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

#### Organic Prep

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

#### VOA Prep

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

# Detection Summary

2 10 e 2 nta i or li d  
, tot de p @ : / SSoi E obCx D2 064MM7A0M0

Job ID: 570-76079-4

## Client Sample ID: S-2.5-Q1

## Lab Sample ID: 570-73078-1

3 o DI e deoi T

## Client Sample ID: S-5-Q1

## Lab Sample ID: 570-73078-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n b CI ) 2 M2 46.	m5		0 Tr0	g KPNK	4	H	3 Ws, G- ( S	soen B x

## Client Sample ID: S-7.5-Q1

## Lab Sample ID: 570-73078-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n b CI ) 2 M2 46.	0 T66		0 Tr0	g KPNK	4	H	3 Ws, G- ( S	soen B x
s, G n E oet R Guni K	69		5 T0	g KPNK	4	H	3 Ws, G-DS	j Cdn ( l 1 2 1 ni p8

## Client Sample ID: S-5-S1

## Lab Sample ID: 570-73078-4

3 o DI e deoi T

## Client Sample ID: S-7.5-S1

## Lab Sample ID: 570-73078-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n b CI ) 2 M2 46.	0 TrM		0 Tr0	g KPNK	4	H	3 Ws, G- ( S	soen B x

## Client Sample ID: S-2.5-S1

## Lab Sample ID: 570-73078-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n E oet R Guni K	Am		46	g KPNK	m	H	3 Ws, G-DS	j Cdn ( l 1 2 1 ni p8

## Client Sample ID: S-2.5-Q3

## Lab Sample ID: 570-73078-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n b CI ) 2 M2 46.	0 T6		0 TrA	g KPNK	4	H	3 Ws, G- ( S	soen B x
s, G n E oet R Guni K	0 T9		ATa	g KPNK	4	H	3 Ws, G-DS	j Cdn ( l 1 2 1 ni p8

## Client Sample ID: S-5-Q3

## Lab Sample ID: 570-73078-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n b CI ) 2 M2 46.	560		56	g KPNK	m50	H	3 Ws, G- ( S	soen B x
s, G n DC k 1 uni K	940		4A	g KPNK	4	H	3 Ws, G-DS	j Cdn ( l 1 2 1 ni p8
s, G n E oet R Guni K	400		4A	g KPNK	4	H	3 Ws, G-DS	j Cdn ( l 1 2 1 ni p8

## Client Sample ID: S-7.5-Q3

## Lab Sample ID: 570-73078-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n b CI ) 2 M2 46.	440		M9	g KPNK	m50	H	3 Ws, G- ( S	soen B x
s, G n DC k 1 uni K	6M0		ATm	g KPNK	4	H	3 Ws, G-DS	j Cdn ( l 1 2 1 ni p8
s, G n E oet R Guni K	A4		ATm	g KPNK	4	H	3 Ws, G-DS	j Cdn ( l 1 2 1 ni p8

## Client Sample ID: S-5-C1

## Lab Sample ID: 570-73078-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n b CI ) 2 M2 46.	mA0		55	g KPNK	m50	H	3 Ws, G- ( S	soen B x

shC DI e deoi j pg g nty aol i oeCd pal tnaC dhl g Cn1e xetl p b T

/ ptofC 2 n1 dCi dl LL2



# Detection Summary

2 10 e 2 nta i or li d

Job ID: 570-76079-4

, tot de p @ : / SSoi E obCx D2 P64MM7A0M0

## Client Sample ID: S-5-C1 (Continued)

## Lab Sample ID: 570-73078-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n o i ) 2 M246.	M00		n7	g KPNK	5	H	3Ws, G-DS	j Cdn ( l l 21 ni p8
s, G n E oet R Cuni K	4400		n7	g KPNK	5	H	3Ws, G-DS	j Cdn ( l l 21 ni p8

## Client Sample ID: S-7.5-C1

## Lab Sample ID: 570-73078-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n o i ) 2 M246.	90		0TrA	g KPNK	4	H	3Ws, G-( S	soen x
s, G n ( n o i ) 2 M246.	M7		44	g KPNK	4	H	3Ws, G-DS	j Cdn ( l l 21 ni p8

## Client Sample ID: S-10-C1

## Lab Sample ID: 570-73078-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n o i ) 2 M246.	0TM		0TM	g KPNK	4	H	3Ws, G-( S	soen x

## Client Sample ID: S-12.5-C1

## Lab Sample ID: 570-73078-13

3 o DI e de i

## Client Sample ID: S-5-C1 DUP

## Lab Sample ID: 570-73078-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n o i ) 2 M246.	4A0		57	g KPNK	m50	H	3Ws, G-( S	soen x
s, G n ( n o i ) 2 M246.	4500		97	g KPNK	4	H	3Ws, G-DS	j Cdn ( l l 21 ni p8
s, G n E oet R Cuni K	650		97	g KPNK	4	H	3Ws, G-DS	j Cdn ( l l 21 ni p8

## Client Sample ID: S-2.5-E1

## Lab Sample ID: 570-73078-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n E oet R Cuni K	M9		66	g KPNK	5	H	3Ws, G-DS	j Cdn ( l l 21 ni p8

## Client Sample ID: S-5-E1

## Lab Sample ID: 570-73078-16

3 o DI e de i

## Client Sample ID: S-7.5-D1A

## Lab Sample ID: 570-73078-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n o i ) 2 M246.	nm		4Tr	g KPNK	4	H	3Ws, G-( S	soen x
s, G n ( n o i ) 2 M246.	C60		67	g KPNK	4	H	3Ws, G-DS	j Cdn ( l l 21 ni p8
s, G n E oet R Cuni K	6A0		67	g KPNK	4	H	3Ws, G-DS	j Cdn ( l l 21 ni p8

## Client Sample ID: S-10-D1A

## Lab Sample ID: 570-73078-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
s, G n ( n o i ) 2 M246.	0Trm		0Trm	g KPNK	4	H	3Ws, G-( S	soen x

## Client Sample ID: S-7.5-E1

## Lab Sample ID: 570-73078-19

3 o DI e de i

shC DI e de i j pg g nty aol i oeCd pal tnaC dhl g Cn1e xetl p eT

/ ptofC 2 n1 dCi dl LL2

## Detection Summary

2 10 e 2 n tai or li d  
, tot de j @ : / SSoi E obCx D2 064M7A0M0

Job ID: 570-76079-4

**Client Sample ID: S-10-E1**

**Lab Sample ID: 570-73078-20**

3 o DI e deoi

**Client Sample ID: Trip Blank**

**Lab Sample ID: 570-73078-21**

3 o DI e deoi

shC DI e deoi j pg g nty aol oeCd pal tnaC dhl g Cn1e etl p B

/ ptofC 2 n1C di LL2

# Client Sample Results

2 10 e 2 nta i or li d  
, tot d e f @ : / SSoi E ob Gx D2 064M7A0M0

Job ID: 570-76079-4

Client Sample ID: S-135-M8

Lab Sample ID: 570-72076-8

Date Cdlle/ tec: 8098v918 82:00

r atxio: Sdllic

Date Re/ eihec: 8098N918 81:00

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmg nm01 12 M2 46	8 D		076A	HsPRs	N	40R34R34 4MG7	40R34R34 4M5(	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmDCnt 1) ni sl	8 D		576	HsPRs	N	40R34R34 4MM9	40R34R34 G6:6(	4
3, . nmE oet u G) ni sl	8 D		576	HsPRs	N	40R34R34 4MM9	40R34R34 G6:6(	4
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-M8

Lab Sample ID: 570-72076-1

Date Cdlle/ tec: 8098v918 82:05

r atxio: Sdllic

Date Re/ eihec: 8098N918 81:00

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	135		0700	HsPRs	N	40R34R34 4MG7	40R34R34 45:06	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmDCnt 1) ni sl	8 D		A74	HsPRs	N	40R34R34 4MM9	40R34R34 G6:5(	4
3, . nmE oet u G) ni sl	8 D		A74	HsPRs	N	40R34R34 4MM9	40R34R34 G6:5(	4
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-735-M8

Lab Sample ID: 570-72076-2

Date Cdlle/ tec: 8098v918 82:80

r atxio: Sdllic

Date Re/ eihec: 8098N918 81:00

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	0322		0700	HsPRs	N	40R34R34 4MG7	40R34R34 45:MA	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmDCnt 1) ni sl	8 D		570	HsPRs	N	40R34R34 4MM9	40R34R34 00:49	4
HGw as r dtdxf il Range	26		570	HsPRs	N	40R34R34 4MM9	40R34R34 00:49	4
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

/ f toLcm2 n1ndCi dl 002

# Client Sample Results

2 Ci e 2 nta i or li d

, tot dēp @ : / SSoi E obCx D2 P64M7A0M0

Job ID: 570-76079-4

Client Sample ID: S-5-S8

Date Cdile/ tec: 809v918 82:10

Date Re/ eihec: 809N918 81:00

Lab Sample ID: 570-72076-v

r atxio: Sdlic

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gexpaxec	Analyzec	Dil Fa/
3, . nmg nm0Cl K2M246	8 D		0T0	HsPRs	N	40P34P34 4MG7	40P34P34 4A:40	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gexpaxec	Analyzec	Dil Fa/
3, . nmDCnt 1) ni sl	8 D		5T7	HsPRs	N	40P34P34 4MM9	40P34P34 00:6(	4
3, . nmE oet u G) ni sl	8 D		5T7	HsPRs	N	40P34P34 4MM9	40P34P34 00:6(	4
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-73-S8

Date Cdile/ tec: 809v918 82:15

Date Re/ eihec: 809N918 81:00

Lab Sample ID: 570-72076-5

r atxio: Sdlic

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gexpaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	03lv		0T0	HsPRs	N	40P34P34 4MG7	40P34P34 4A:66	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gexpaxec	Analyzec	Dil Fa/
3, . nmDCnt 1) ni sl	8 D		5T9	HsPRs	N	40P34P34 4MM9	40P34P34 04:00	4
3, . nmE oet u G) ni sl	8 D		5T9	HsPRs	N	40P34P34 4MM9	40P34P34 04:00	4
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-13-S8

Date Cdile/ tec: 809v918 82:85

Date Re/ eihec: 809N918 81:00

Lab Sample ID: 570-72076-N

r atxio: Sdlic

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gexpaxec	Analyzec	Dil Fa/
3, . nmg nm0Cl K2M246	8 D		0TGM	HsPRs	N	40P34P34 4MG7	40P34P34 4A:57	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gexpaxec	Analyzec	Dil Fa/
3, . nmDCnt 1) ni sl	8 D		46	HsPRs	N	40P34P34 4MM9	40P34P34 04:4(	G
HGw as r dtdxf il Range	N		46	HsPRs	N	40P34P34 4MM9	40P34P34 04:4(	G
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

/ f toLm2 n1ndCi dl 002

# Client Sample Results

2 10 e 2 nta i or li d

, tot d e p @ : / SSoi E ob Gx D2 064M7A0M0

Job ID: 570-76079-4

Client Sample ID: S-135-M2

Date Cdlle/ tec: 8098v918 82:20

Date Re/ eihec: 8098N918 81:00

Lab Sample ID: 570-72076-7

r atxio: Sdllic

r etWdc: TP HGw-Vo - T dxW( est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	082		OTGA	HsPRs	N	40R34R34 4MG7	40R34R34 47:00	4
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

r etWdc: TP HGw-Do - T dxW( est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmDCnt 1) ni sl	8D		ATA	HsPRs	N	40R34R34 4MM9	40R34R34 04:60	4
HGw as r dtdxf il Range	085		ATA	HsPRs	N	40R34R34 4MM9	40R34R34 04:60	4
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-M2

Date Cdlle/ tec: 8098v918 82:25

Date Re/ eihec: 8098N918 81:00

Lab Sample ID: 570-72076-6

r atxio: Sdllic

r etWdc: TP HGw-Vo - T dxW( est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	520		56	HsPRs	N	40R34R34 4MG7	40R34R34 07:6M	G60
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

r etWdc: TP HGw-Do - T dxW( est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Diesel Range	680		4A	HsPRs	N	40R34R34 4MM9	40R34R34 04:50	4
HGw as r dtdxf il Range	800		4A	HsPRs	N	40R34R34 4MM9	40R34R34 04:50	4
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-735-M2

Date Cdlle/ tec: 8098v918 82:v0

Date Re/ eihec: 8098N918 81:00

Lab Sample ID: 570-72076-0

r atxio: Sdllic

r etWdc: TP HGw-Vo - T dxW( est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	880		M9	HsPRs	N	40R34R34 4MG7	40R34R34 44:00	G60
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

r etWdc: TP HGw-Do - T dxW( est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Diesel Range	2v0		ATG	HsPRs	N	40R34R34 4MM9	40R34R34 00:00	4
HGw as r dtdxf il Range	N8		ATG	HsPRs	N	40R34R34 4MM9	40R34R34 00:00	4
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

/ f toLcm2 n1ndCi dl 002

# Client Sample Results

2 10 e 2 nta i or li d

, tot d e p @ : / SSoi E ob Gx D2 064M7A0M0

Job ID: 570-76079-4

Client Sample ID: S-5-C8

Date Cdlle/ tec: 8095918 06:10

Date Re/ eihec: 8095918 81:00

Lab Sample ID: 570-72076-80

r atxio: Sdllic

r etWdc: TP HGw-Vo - T dxW( est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	1N0		55	HsPRs	N	40R34R34 4MG7	40R34R34 07:59	G50
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

r etWdc: TP HGw-Do - T dxW( est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Diesel Range	vv00		G7	HsPRs	N	40R34R34 4MM0	40R34R34 0G6(	5
HGw as r dtdxf il Range	8800		G7	HsPRs	N	40R34R34 4MM0	40R34R34 0G6(	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-73-C8

Date Cdlle/ tec: 8095918 80:80

Date Re/ eihec: 8095918 81:00

Lab Sample ID: 570-72076-88

r atxio: Sdllic

r etWdc: TP HGw-Vo - T dxW( est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	630		0TCA	HsPRs	N	40R34R34 4MG7	40R34R34 4( :MG	4
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

r etWdc: TP HGw-Do - T dxW( est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Diesel Range	v7		44	HsPRs	N	40R34R34 4MM0	40R34R34 06:M0	4
3, . nmE oet u G) ni sl	8D		44	HsPRs	N	40R34R34 4MM0	40R34R34 06:M0	4
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-80-C8

Date Cdlle/ tec: 8095918 80:85

Date Re/ eihec: 8095918 81:00

Lab Sample ID: 570-72076-81

r atxio: Sdllic

r etWdc: TP HGw-Vo - T dxW( est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	03v		0TVA	HsPRs	N	40R34R34 4MG7	40R34R34 00:0A	4
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

r etWdc: TP HGw-Do - T dxW( est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmDCnt 1) ni sl	8D		76	HsPRs	N	40R34R34 4MM0	40R34R34 06:5(	4
3, . nmE oet u G) ni sl	8D		76	HsPRs	N	40R34R34 4MM0	40R34R34 06:5(	4
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

/ f toLcm2 n1ndCi dl 002



# Client Sample Results

2 10 e 2 nta i or li d

, tot d e p @ : / SSoi E ob Gx D2 064MM7A0M0

Job ID: 570-76079-4

Client Sample ID: S-813-C8

Date Cdlle/ tec: 8095918 80:10

Date Re/ eihec: 8095918 81:00

Lab Sample ID: 570-72076-82

r atxio: Sdllic

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmgnm 10 i 2 M246	8 D		0TG	HsPRs	N	40R34R34 4MG7	40R34R34 40:60	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmDCnt 1) ni sl	8 D		AT9	HsPRs	N	40R34R34 4MM9	40R34R34 0M4(	4
3, . nmE oet u G) ni sl	8 D		AT9	HsPRs	N	40R34R34 4MM9	40R34R34 0M4(	4
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-C8 DUG

Date Cdlle/ tec: 8095918 06:15

Date Re/ eihec: 8095918 81:00

Lab Sample ID: 570-72076-8v

r atxio: Sdllic

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	8ND		57	HsPRs	N	40R34R34 4MG7	40R34R34 44:MM	G60
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Diesel Range	8500		9T	HsPRs	N	40R34R34 4MM9	40R34R34 0M6(	4
HGw as r dtdxf il Range	250		9T	HsPRs	N	40R34R34 4MM9	40R34R34 0M6(	4
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-13-E8

Date Cdlle/ tec: 8095918 06:v0

Date Re/ eihec: 8095918 81:00

Lab Sample ID: 570-72076-85

r atxio: Sdllic

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmgnm 10 i 2 M246	8 D		0TG	HsPRs	N	40R34R34 4MG7	40R34R34 40:6G	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmDCnt 1) ni sl	8 D		66	HsPRs	N	40R34R34 4MM9	40R34R34 05:00	5
HGw as r dtdxf il Range	v6		66	HsPRs	N	40R34R34 4MM9	40R34R34 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

/ f toLm2 n1ndCi dl 002

# Client Sample Results

2 10 e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Gx D2 064M7A0M0

Job ID: 570-76079-4

Client Sample ID: S-5-E8

Lab Sample ID: 570-72076-8N

Date Cdlle/ tec: 8095918 06:v5

r atxio: Sdllic

Date Re/ eihec: 8095918 81:00

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmD Cnt 1) ni sl	8 D		OTGA	HsPRs	N	40R34R34 4MG7	40R34R34 4:1M	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmD Cnt 1) ni sl	8 D		ATM	HsPRs	N	40R34R34 4MM0	40R34R34 05:4(	4
3, . nmE oet u G) ni sl	8 D		ATM	HsPRs	N	40R34R34 4MM0	40R34R34 05:4(	4
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-73-D8A

Lab Sample ID: 570-72076-87

Date Cdlle/ tec: 8095918 80:25

r atxio: Sdllic

Date Re/ eihec: 8095918 81:00

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	11		4TG	HsPRs	N	40R34R34 4MG7	40R34R34 03M0	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Diesel Range	020		67	HsPRs	N	40R34R34 4MM0	40R34R34 05:69	4
HGw as r dtdxf il Range	2N0		67	HsPRs	N	40R34R34 4MM0	40R34R34 05:69	4
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-80-D8A

Lab Sample ID: 570-72076-86

Date Cdlle/ tec: 8095918 80:v0

r atxio: Sdllic

Date Re/ eihec: 8095918 81:00

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
HGw as Vasdline 4Cv-C82.	03M		OTGM	HsPRs	N	40R34R34 4MG7	40R34R34 03G0	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmD Cnt 1) ni sl	8 D		ATG	HsPRs	N	40R34R34 4MM0	40R34R34 05:5(	4
3, . nmE oet u G) ni sl	8 D		ATG	HsPRs	N	40R34R34 4MM0	40R34R34 05:5(	4
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

/ f toLcm2 n1ndCi dl 002

# Client Sample Results

2 10 e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Gx D2 064MM7A0M0

Job ID: 570-76079-4

Client Sample ID: S-73-E8

Lab Sample ID: 570-72076-80

Date Cdlle/ tec: 8095918 80:50

r atxio: Sdllic

Date Re/ eihec: 8095918 81:00

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmg nm0Cl K2M246	8 D		06M	HsPRs	N	40R34R34 4MM7	40R34R34 4G54	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmD0n1) ni sl	8 D		77	HsPRs	N	40R34R34 4MM0	40R34R34 0A:49	4
3, . nmE oet u G) ni sl	8 D		77	HsPRs	N	40R34R34 4MM0	40R34R34 0A:49	4
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-80-E8

Lab Sample ID: 570-72076-10

Date Cdlle/ tec: 8095918 80:55

r atxio: Sdllic

Date Re/ eihec: 8095918 81:00

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmg nm0Cl K2M246	8 D		47M	HsPRs	N	40R34R34 4MM7	40R34R34 07:44	4
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

r etWdc: TP HGw-Do - T dxW est - Semi-) dlatile Getxdleum Gxdcu/ ts 4/C. - Sili/ a Vel Cleanup

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmD0n1) ni sl	8 D		4G	HsPRs	N	40R34R34 4MM0	40R34R34 0A:67	4
3, . nmE oet u G) ni sl	8 D		4G	HsPRs	N	40R34R34 4MM0	40R34R34 0A:67	4
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: Hip Blank

Lab Sample ID: 570-72076-18

Date Cdlle/ tec: 8095918 00:00

r atxio: P atex

Date Re/ eihec: 8095918 81:00

r etWdc: TP HGw-Vo - T dxW est - ) dlatile Getxdleum Gxdcu/ ts 4/C.

Analyte	Result	MualiQex	RL	Unit	D	Gxepaxec	Analyzec	Dil Fa/
3, . nmg nm0Cl K2M246	8 D		400	f sR0	-		40R34R34 44:4(	4
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54		50 - 150				10/20/21 11:19	1

/ f toL0m2n1ndCi dl 002

# Surrogate Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613374030

Job ID: 570-76072-1

## 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)
570-76072-1	S-R5-Q1	.6
570-76072-R	S-5-Q1	77
570-76072-6	S-795-Q1	2.
570-76072-3	S-5-S1	.5
570-76072-5	S-795-S1	103
570-76072-4	S-R5-S1	24
570-76072-7	S-R5-Q6	70
570-76072-2	S-5-Q6	55
570-76072-	S-795-Q6	7R
570-76072-10	S-5-C1	42
570-76072-11	S-795-C1	75
570-76072-1R	S-10-C1	.1
570-76072-16	S-1R5-C1	.2
570-76072-13	S-5-C1 D8 P	77
570-76072-15	S-R5-E1	.1
570-76072-14	S-5-E1	.0
570-76072-17	S-795-D1A	46
570-76072-12	S-10-D1A	5R
570-76072-1.	S-795-E1	7.
570-76072-R0	S-10-E1	70
LCS 570-122547/6	Lab Control Sample	107
LCS 570-12. 533/R	Lab Control Sample	.5
LCSD 570-122547/3	Lab Control Sample Dup	104
LCSD 570-12. 533/60	Lab Control Sample Dup	.0
MB 570-122547/5	Method Blank	24
MB 570-12. 533/61	Method Blank	27
MB 570-12. 533/6R	Method Blank	4R

### Surrogate Legend

BFB = 3-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)
570-7R 4. -D-6 MS	Matrix Spike	2.
570-7R 4. -D-6 MSD	Matrix Spike Duplicate	.1
570-76072-R1	Orip Blank	53
LCS 570-12744R/6	Lab Control Sample	.1
LCSD 570-12744R/3	Lab Control Sample Dup	27
MB 570-12744R/5	Method Blank	54

### Surrogate Legend

BFB = 3-Bromofluorobenzene (Surr)

# Surrogate Summary

Client: Cardno, Inc

Job ID: 570-76072-1

Project/Site: ExxonMobil ADC/0613374030

**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)
570-76072-1	S-R5-Q1	. .
570-76072-R	S-5-Q1	. R
570-76072-6	S-75-Q1	. 2
570-76072-3	S-5-S1	. R
570-76072-5	S-75-S1	. 0
570-76072-4	S-R5-S1	43
570-76072-4 MS	S-R5-S1	100
570-76072-4 MS	S-R5-S1	. 6
570-76072-4 MSD	S-R5-S1	. 3
570-76072-4 MSD	S-R5-S1	100
570-76072-7	S-R5-Q6	101
570-76072-2	S-5-Q6	. 7
570-76072-.	S-75-Q6	. 5
570-76072-10	S-5-C1	. .
570-76072-11	S-75-C1	. 6
570-76072-1R	S-10-C1	. 2
570-76072-16	S-1R5-C1	. 7
570-76072-13	S-5-C1 D8 P	. 7
570-76072-15	S-R5-E1	. 6
570-76072-14	S-5-E1	. 7
570-76072-17	S-75-D1A	106
570-76072-12	S-10-D1A	. 7
570-76072-1.	S-75-E1	. 5
570-76072-R0	S-10-E1	. 7
LCS 570-1. 0160/R-A	Lab Control Sample	. .
LCS 570-1. 0160/4-A	Lab Control Sample	. 2
LCSD 570-1. 0160/6-A	Lab Control Sample Dup	. 2
LCSD 570-1. 0160/7-A	Lab Control Sample Dup	. 2
MB 570-1. 0160/1-A	Method Blank	100

## Surrogate Legend

NOCSs = n-NctacoTane (Surr)

# QC Sample Results

2101 e 2 nta i or li d

Job ID: 570-76079-4

, tot de p @ : / SSoi E obCx D2 P64M7A0M0

## 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
3, . nmg nm01 i2 M2 46	8 D		400	THS			40/4/14 49:5N	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		80 - 180				10/17/21 1: 32	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
3, . nmg nm01 i2 M2 46	N460	N0RR		THS		RR	7A- 4N9
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	71		80 - 180				

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
3, . nmg nm01 i2 M2 46	N460	N444		THS		RR	7A- 4N9	4	40
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	: 6		80 - 180						

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
3, . nmg nm01 i2 M2 46	8 D		N460	N070		THS		R7	AR- 46N
Surrogate	%Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	: 7		80 - 180						

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
3, . nmg nm01 i2 M2 46	8 D		N460	N4N0		THS		400	AR- 46N	N	45
Surrogate	%Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	71		80 - 180								

/ TtoCm2n1ndC dl ss2



# QC Sample Results

2 10 e 2 nta i or li d

, tot de p @ : / SSoi E obCx D2 P64M7A0M0

Job ID: 570-76079-4

## 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
3, . nmg nm0C1 K2 M2 46	8 D		0(N5	) HRH			40RN7M4 4M4N	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 5		80 - 180				10/22/21 1432	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	
3, . nmg nm0C1 K2 M2 46	N4N	N066		) HRH		RA	77 - 4N9	
Surrogate	%Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	106		80 - 180					

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
3, . nmg nm0C1 K2 M2 46	N4N	4(RN		) HRH		RO	77 - 4N9	A	4A
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	105		80 - 180						

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
3, . nmg nm0C1 K2 M2 46	8 D		0(N5	) HRH			40RN7M4 00:5M	4
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	: 6		80 - 180				10/26/21 0034	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
3, . nmg nm0C1 K2 M2 46	8 D		5(0	) HRH			40RN7M4 04:49	N0
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	52		80 - 180				10/26/21 0131	20

/ TtoCm2n1dC1 dl ss2

# QC Sample Results

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 , tot de p @ : / SSoi E ob Gx D2 P64M7A0M0

Job ID: 570-76079-4

## 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
3, . nmg nm0 Cl K2 M2 46	N4N	4(R40		) HRH		R0	77 - 4N9
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	78		80 - 180				

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
3, . nmg nm0 Cl K2 M2 46	N46	4(RN4		) HRH		R0	77 - 4N9	4	4A
Surrogate	%Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	70		80 - 180						

## 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
3, . nmDCnt 1f ni H	8D		5(0	) HRH		40R9R4 4MM9	40R9R4 N0:N6	4
3, . nmE oet L Qf ni H	8D		5(0	) HRH		40R9R4 4MM9	40R9R4 N0:N6	4
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
n-9 Qat Qat ne (Surr)	100		80 - 180	10/2: /21 143f	10/2: /21 203s	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
3, . nmDCnt 1K2 40-2 N9	M00	MM(M		) HRH		40A	7A - 4NA
Surrogate	%Recovery	LCS Qualifier	Limits				
n-9 Qat Qat ne (Surr)	77		80 - 180				

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
3, . nmE oet L Gk2 47-2 MM	M00	677(R		) HRH		RM	74 - 46R
Surrogate	%Recovery	LCS Qualifier	Limits				
n-9 Qat Qat ne (Surr)	7:		80 - 180				

/ Tto Gm2 n1 dC dl ss2

# QC Sample Results

2 10 e 2 nta i or li d  
, tot d e p @ : / SSoi E ob Qx D2 P64M7A0M0

Job ID: 570-76079-4

## 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
3, . nmDCnt 1K2 40-2 N9	M00	M6N9		) HRH		409	7A - 4NA	N	NO
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-9 Qd Qbat ne (Surr)	7:		80 - 180						

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
3, . nmE oet L QK2 47-2 MM	M00	676(0		) HRH		R6	74 - 46R	4	NO
Surrogate	%Recovery	LCSD Qualifier	Limits						
n-9 Qd Qbat ne (Surr)	7:		80 - 180						

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	RPD	RPD Limit
3, . nmDCnt 1K2 40-2 N9	N5		54R	5RN7		) HRH		40R	67 - 475		
Surrogate	%Recovery	MS Qualifier	Limits								
n-9 Qd Qbat ne (Surr)	100		80 - 180								

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	RPD	RPD Limit
3, . nmE oet L QK2 47-2 MM	7M		MR4	5M6(7		) HRH		RA	74 - 47M		
Surrogate	%Recovery	MS Qualifier	Limits								
n-9 Qd Qbat ne (Surr)	7s		80 - 180								

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
3, . nmDCnt 1K2 40-2 N9	N5		MAA	5N7(M		) HRH		409	67 - 475	4N	NO
Surrogate	%Recovery	MSD Qualifier	Limits								
n-9 Qd Qbat ne (Surr)	74		80 - 180								

/ Tto Gm2 n1 dC dl ss2

# QC Sample Results

2 10 e 2 ntai or li d

Job ID: 570-76079-4

, tot de / SSoi E obCx D2 064M7A0M0

## 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 Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
3, . nmE oet L QK 47-2 MM	7M		50A	55RM		) HRH	o	RA	74 - 47M	6	ND
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
n-9 Qat ne (Surr)	100		80 - 180								

/ TtoCm2n1dCi dl ss2

# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613374030

Job ID: 570-76072-1

## GC VOA

### Analysis Batch: 187662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76072-Q1	Ni9 WanH	Nbtal/T A	R ater	TR NP. -8 x	
MW570-12744Q5	MetGod WanH	Nbtal/T A	R ater	TR NP. -8 x	
BCS 570-12744Q6	Bab Control Sah 9le	Nbtal/T A	R ater	TR NP. -8 x	
BCSD 570-12744Q3	Bab Control Sah 9le Dk9	Nbtal/T A	R ater	TR NP. -8 x	
570-7QL4L-D-6 MS	Matrix S9iH	Nbtal/T A	R ater	TR NP. -8 x	
570-7QL4L-D-6 MSD	Matrix S9iH Dk9licate	Nbtal/T A	R ater	TR NP. -8 x	

### Prep Batch: 188256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76072-1	S-Q6-p 1	Nbtal/T A	Solid	5065	
570-76072-Q	S-5-p 1	Nbtal/T A	Solid	5065	
570-76072-6	S-7r6-p 1	Nbtal/T A	Solid	5065	
570-76072-3	S-5-S1	Nbtal/T A	Solid	5065	
570-76072-5	S-7r6-S1	Nbtal/T A	Solid	5065	
570-76072-4	S-Q6-S1	Nbtal/T A	Solid	5065	
570-76072-7	S-Q6-p 6	Nbtal/T A	Solid	5065	
570-76072-11	S-7r6-C1	Nbtal/T A	Solid	5065	
570-76072-1Q	S-10-C1	Nbtal/T A	Solid	5065	
570-76072-16	S-1Q6-C1	Nbtal/T A	Solid	5065	
570-76072-15	S-Q6-E1	Nbtal/T A	Solid	5065	
570-76072-14	S-5-E1	Nbtal/T A	Solid	5065	
570-76072-17	S-7r6-D1A	Nbtal/T A	Solid	5065	
570-76072-12	S-10-D1A	Nbtal/T A	Solid	5065	
570-76072-1L	S-7r6-E1	Nbtal/T A	Solid	5065	
570-76072-Q0	S-10-E1	Nbtal/T A	Solid	5065	

### Prep Batch: 188257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76072-2	S-5-p 6	Nbtal/T A	Solid	5065	
570-76072-L	S-7r6-p 6	Nbtal/T A	Solid	5065	
570-76072-10	S-5-C1	Nbtal/T A	Solid	5065	
570-76072-13	S-5-C1 Du P	Nbtal/T A	Solid	5065	

### Analysis Batch: 188567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76072-1	S-Q6-p 1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-Q	S-5-p 1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-6	S-7r6-p 1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-3	S-5-S1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-5	S-7r6-S1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-4	S-Q6-S1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-7	S-Q6-p 6	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-11	S-7r6-C1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-1Q	S-10-C1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-16	S-1Q6-C1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-14	S-5-E1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-17	S-7r6-D1A	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-12	S-10-D1A	Nbtal/T A	Solid	TR NP. -8 x	122Q64
570-76072-1L	S-7r6-E1	Nbtal/T A	Solid	TR NP. -8 x	122Q64
MW570-122547/5	MetGod WanH	Nbtal/T A	Solid	TR NP. -8 x	
BCS 570-122547/6	Bab Control Sah 9le	Nbtal/T A	Solid	TR NP. -8 x	

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# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613374030

Job ID: 570-76072-1

## GC VOA (Continued)

### Analysis Batch: 188567 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
BCSD 570-122547/3	Bab Control Sah 9le Dk9	Nbtal/TA	Solid	TR NP. -8 x	

### Analysis Batch: 189544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76072-2	S-5-p 6	Nbtal/TA	Solid	TR NP. -8 x	122Q57
570-76072-L	S-7r5-p 6	Nbtal/TA	Solid	TR NP. -8 x	122Q57
570-76072-10	S-5-C1	Nbtal/TA	Solid	TR NP. -8 x	122Q57
570-76072-13	S-5-C1 Du P	Nbtal/TA	Solid	TR NP. -8 x	122Q57
570-76072-15	S-Q5-E1	Nbtal/TA	Solid	TR NP. -8 x	122Q54
570-76072-Q	S-10-E1	Nbtal/TA	Solid	TR NP. -8 x	122Q54
MW570-12L533/61	MetGod WanH	Nbtal/TA	Solid	TR NP. -8 x	
MW570-12L533/6Q	MetGod WanH	Nbtal/TA	Solid	TR NP. -8 x	
BCS 570-12L533/QL	Bab Control Sah 9le	Nbtal/TA	Solid	TR NP. -8 x	
BCSD 570-12L533/60	Bab Control Sah 9le Dk9	Nbtal/TA	Solid	TR NP. -8 x	

## GC Semi VOA

### Prep Batch: 190130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76072-1	S-Q5-p 1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-Q	S-5-p 1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-6	S-7r5-p 1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-3	S-5-S1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-5	S-7r5-S1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-4	S-Q5-S1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-7	S-Q5-p 6	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-2	S-5-p 6	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-L	S-7r5-p 6	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-10	S-5-C1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-11	S-7r5-C1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-1Q	S-10-C1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-16	S-1Q5-C1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-13	S-5-C1 Du P	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-15	S-Q5-E1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-14	S-5-E1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-17	S-7r5-D1A	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-12	S-10-D1A	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-1L	S-7r5-E1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-Q	S-10-E1	Silica 8 el Cleank9	Solid	6550C S8 C	
MW570-1L0160/1-A	MetGod WanH	Silica 8 el Cleank9	Solid	6550C S8 C	
BCS 570-1L0160/QA	Bab Control Sah 9le	Silica 8 el Cleank9	Solid	6550C S8 C	
BCS 570-1L0160/4-A	Bab Control Sah 9le	Silica 8 el Cleank9	Solid	6550C S8 C	
BCSD 570-1L0160/6-A	Bab Control Sah 9le Dk9	Silica 8 el Cleank9	Solid	6550C S8 C	
BCSD 570-1L0160/7-A	Bab Control Sah 9le Dk9	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-4 MS	S-Q5-S1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-4 MS	S-Q5-S1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-4 MSD	S-Q5-S1	Silica 8 el Cleank9	Solid	6550C S8 C	
570-76072-4 MSD	S-Q5-S1	Silica 8 el Cleank9	Solid	6550C S8 C	



# QC Association Summary

Client: Cardno, Inc  
Project/Site: ExxonMobil ADC/0613374030

Job ID: 570-76072-1

## GC Semi VOA

### Analysis Batch: 190211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-76072-1	S-Q5-p 1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-Q	S-5-p 1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-6	S-7r5-p 1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-3	S-5-S1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-5	S-7r5-S1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-4	S-Q5-S1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-7	S-Q5-p 6	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-2	S-5-p 6	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-L	S-7r5-p 6	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-10	S-5-C1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-11	S-7r5-C1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-1Q	S-10-C1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-16	S-1Q5-C1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-13	S-5-C1 Du P	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-15	S-Q5-E1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-14	S-5-E1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-17	S-7r5-D1A	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-12	S-10-D1A	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-1L	S-7r5-E1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-QD	S-10-E1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
MW570-1L0160/1-A	MetGod WanH	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
BCS 570-1L0160/QA	Bab Control Sah 9le	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
BCS 570-1L0160/4-A	Bab Control Sah 9le	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
BCSD 570-1L0160/6-A	Bab Control Sah 9le Dk9	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
BCSD 570-1L0160/7-A	Bab Control Sah 9le Dk9	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-4 MS	S-Q5-S1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-4 MS	S-Q5-S1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-4 MSD	S-Q5-S1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160
570-76072-4 MSD	S-Q5-S1	Silica 8 el Cleank9	Solid	TR NP. -Dx	1L0160

# Lab Chronicle

Client: Cardno, Inc  
 1 roEctj/ ite: SEEnx obil MDCj028AA730A0

Job ID: 570-72076-8

**Client Sample ID: S-2.5-Q1**

**Lab Sample ID: 570-73078-1**

**Date Collected: 10/14/21 13:00**

**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
TotaljNM	1 re4	5025			2.732 9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 8A:5G	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			80.83 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			800L88	80jL6jL8 L2:2G	M8s	SCZ 8
Inytrument ID: HC50										

**Client Sample ID: S-5-Q1**

**Lab Sample ID: 570-73078-2**

**Date Collected: 10/14/21 13:05**

**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
TotaljNM	1 re4	5025			7.4L5 9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 85:L2	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			G3L 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			800L88	80jL6jL8 L2:5G	M8s	SCZ 8
Inytrument ID: HC50										

**Client Sample ID: S-7.5-Q1**

**Lab Sample ID: 570-73078-3**

**Date Collected: 10/14/21 13:10**

**Matrix: Solid**

**Date Received: 10/16/21 12:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re4	5025			5.1L7 9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 85:A3	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			80.28 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			800L88	80jLQjL8 00:86	M8s	SCZ 8
Inytrument ID: HC50										

**Client Sample ID: S-5-S1**

**Lab Sample ID: 570-73078-4**

**Date Collected: 10/14/21 13:20**

**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
TotaljNM	1 re4	5025			7.1A5 9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 83:80	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			80.15 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			800L88	80jLQjL8 00:2G	M8s	SCZ 8
Inytrument ID: HC50										

SuroRhy Calycience ZZC

# Lab Chronicle

Client: Cardno, Inc  
 1 roPctj/ ite: SEEnx obil MDCj028AA730A0

Job ID: 570-72076-8

**Client Sample ID: S-7.5-S1**

**Lab Sample ID: 570-73078-5**

**Date Collected: 10/14/21 13:25**

**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
TotaljNM	1 re4	5025			7.2G9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 83:22	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			80.23 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			800L88	80jLQjL8 08:00	M8s	SCZ 8
Inytrument ID: HC50										

**Client Sample ID: S-2.5-S1**

**Lab Sample ID: 570-73078-6**

**Date Collected: 10/14/21 13:15**

**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
TotaljNM	1 re4	5025			3.503 9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 83:57	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			G57 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		L			800L88	80jLQjL8 08:8G	M8s	SCZ 8
Inytrument ID: HC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re4	5025			5.002 9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 87:L0	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			GAL 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			800L88	80jLQjL8 08:2G	M8s	SCZ 8
Inytrument ID: HC50										

**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**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TotaljNM	1 re4	5025			3.7G 9	5 mZ	866L57	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		L50	5 mZ	5 mZ	8665AA	80jL7jL8 07:2A	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			2.70 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			800L88	80jLQjL8 08:5G	M8s	SCZ 8
Inytrument ID: HC50										

SuroRhy Calycience ZZC

# Lab Chronicle

Client: Cardno, Inc  
 1 roPctj/ ite: SEEnx obil MDCj028AA730A0

Job ID: 570-72076-8

**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
TotaljNM	1 re4	5025			7.66G9	5 mZ	866L57	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		L50	5 mZ	5 mZ	86G5AA	80jL7jL8 88:L0	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			G62 9	80 mZ	8G0820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			8G0L88	80jLQjL8 0L:L0	M8s	SCZ 8
Inytrument ID: HC50										

**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
TotaljNM	1 re4	5025			3.LGL 9	5 mZ	866L57	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		L50	5 mZ	5 mZ	86G5AA	80jL7jL8 07:56	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			80.8G9	80 mZ	8G0820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		5			8G0L88	80jLQjL8 0L:2G	M8s	SCZ 8
Inytrument ID: HC50										

**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
TotaljNM	1 re4	5025			7.878 9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 8GAL	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			3.63 9	80 mZ	8G0820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			8G0L88	80jLQjL8 02:A0	M8s	SCZ 8
Inytrument ID: HC50										

**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
TotaljNM	1 re4	5025			A.0LG9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 L0:03	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			G02 9	80 mZ	8G0820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			8G0L88	80jLQjL8 02:5G	M8s	SCZ 8
Inytrument ID: HC50										

SuroRhy Calycience ZZC

# Lab Chronicle

Client: Cardno, Inc  
 1 roPctj/ ite: SEEnx obil MDCj028AA730A0

Job ID: 570-72076-8

**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
TotaljNM	1 re4	5025			5.686 9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 L0:20	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			G70 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			800L88	80jLQjL8 0A:8G	M8s	SCZ 8
Inytrument ID: HC50										

**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
TotaljNM	1 re4	5025			3.065 9	5 mZ	866L57	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		L50	5 mZ	5 mZ	8665AA	80jL7jL8 88:AA	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			3.65 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			800L88	80jLQjL8 0A:2G	M8s	SCZ 8
Inytrument ID: HC50										

**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
TotaljNM	1 re4	5025			3.87G9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	8665AA	80jL7jL8 80:2L	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			80.08 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		5			800L88	80jLQjL8 05:00	M8s	SCZ 8
Inytrument ID: HC50										

**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
TotaljNM	1 re4	5025			3.L23 9	5 9	866L53	80jL8jL8 8A:L7	pYZ2	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 L8:A8	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			80.0L 9	80 mZ	800820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			800L88	80jLQjL8 05:8G	M8s	SCZ 8
Inytrument ID: HC50										

SuroRhy Calycience ZZC

# Lab Chronicle

Client: Cardno, Inc  
 1 roEctj/ ite: SEEnx obil MDCj028AA730A0

Job ID: 570-72076-8

**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
TotaljNM	1 re4	5025			2.5G 9	5 9	866L53	80jL8jL8 8A:L7	pY22	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 LL:0A	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			A.5A 9	80 mZ	8G0820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			8G0L88	80jLQjL8 05:26	M8s	SCZ 8
Inytrument ID: HC50										

**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
TotaljNM	1 re4	5025			3.26A 9	5 9	866L53	80jL8jL8 8A:L7	pY22	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 LL:L6	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			80.03 9	80 mZ	8G0820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			8G0L88	80jLQjL8 05:5G	M8s	SCZ 8
Inytrument ID: HC50										

**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
TotaljNM	1 re4	5025			5.2A5 9	5 9	866L53	80jL8jL8 8A:L7	pY22	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	866537	80jLLjL8 LL:58	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			80.L0 9	80 mZ	8G0820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			8G0L88	80jLQjL8 03:86	M8s	SCZ 8
Inytrument ID: HC50										

**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
TotaljNM	1 re4	5025			L.8L7 9	5 9	866L53	80jL8jL8 8A:L7	pY22	SCZ L
TotaljNM	Mhalgyiy	Ns T1W-HE		8	5 9	5 mZ	86G5AA	80jL7jL8 07:88	M3/S	SCZ L
Inytrument ID: HC53										
/ ilica Hel Cleanu4	1 re4	2550C / HC			G65 9	80 mZ	8G0820	80jL6jL8 8A:A6	N5p2	SCZ 8
/ ilica Hel Cleanu4	Mhalgyiy	Ns T1W-DE		8			8G0L88	80jLQjL8 03:27	M8s	SCZ 8
Inytrument ID: HC50										

SuroRhy Calycience ZZC



# Lab Chronicle

Client: Cardno, Inc  
 Project/ Site: SEONx obil MDCj028AA730A0

Job ID: 570-72076-8

**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
TotaljNM	Mhalgyiy	Ns T1WHE		8	5 mZ	5 mZ	86733L	80jL0jL8 88:8G 18f		SCZ L
Instrument ID: HCL5										

## Laboratory References:

SCZ 8 = SuroRny Calycience ZXC Zincoln, 7AA0 Zincoln s ag, Harden Hrove, CMGL6A8, TSZ (78A)6G5-5AGA

SCZ L = SuroRny Calycience ZXC Zam4yon, 7AA5 Zam4yon Mre, Harden Hrove, CMGL6A8, TSZ (78A)6G5-5AGA

# Accreditation/Certification Summary

Client: Cardno, Inc  
1 roPctj/ ite: SEEnx obil MDCj064AA730A0

Job ID: 570-76078-4

## Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	/ tate	C943-48	40-42-22

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

# Method Summary

2 10 e 2 ntai or li d

, tot de p @ : / SSoi E obCx D2 064M7A0M0

Job ID: 570-76079-4

Method	Method Description	Protocol	Laboratory
3 N W T-HS	3 ote h l we- so h e 3 , l d o 1 Vu , toa V d e v r h l 2 (	3 N W T	/ 2 ) L
3 N W T-DS	3 ote h l we- j l u G s o h e 3 , l d o 1 Vu , toa V d e v r h l 2 (	3 N W T	/ 2 ) 4
65502 j H2	8 t n w o i d / S a n d e d o i	j N 9 M A	/ 2 ) 4
50602	, V t U ni a W ny	j N 9 M A	/ 2 ) L
5065	2 b w a j g w d u , V t U ni a W ny	j N 9 M A	/ 2 ) L

## Protocol References:

3 N W T p 3 o t e h l w e V d e n 1, l d o 1 Vu T g a t o d n t b o i

j N 9 M A p = V w e l e 3 a w " o t / F n 1 w e C U j o t a N n w d r , G g w d h 1 2 G u d n 1 E l e 3 a w r W d a / a d d i r 3 o F l u b l t 4 v 9 A x i a l e w 8 y a n d w

## Laboratory References:

/ 2 ) 4 p / V t o f C w 2 n 1 w d C i d l ) ) 2 ) C d o 1 r 7 M M 0 ) C d o 1 N n g r H n t a l i H t o F l r 2 x v L 9 M # r W ) n 7 4 M 9 v 5 - 5 M M

/ 2 ) L p / V t o f C w 2 n 1 w d C i d l ) ) 2 ) n u y w o i r 7 M M 5 ) n u y w o i x F l r H n t a l i H t o F l r 2 x v L 9 M # r W ) n 7 4 M 9 v 5 - 5 M M

/ V t o f C w 2 n 1 w d C i d l ) ) 2

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-2.5-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)

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**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

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


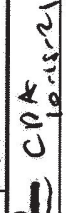




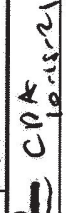




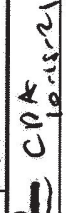




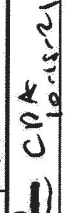






7440 LINCOLN WAY  
GARDEN GROVE, CA 92841-1432  
Calscience  
TEL: (714) 895-6494 FAX: (714) 894-7501

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 10/15/2021  
PAGE 1 OF 1

ExxonMobil Engr	Jennifer Sedlachek
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LABORATORY CLIENT <b>Cardno</b> ADDRESS: 309 South Cloverdale Street Unit A13 CITY: Seattle, WA 98108 TEL: 206-510-5855 FAX: N/A		GLOBAL ID # COELT LOG CODE: PROJECT CONTACT <b>Robert Thompson</b> SAMPLER(S): <b>Consigne</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 checked="" type="checkbox"/> 10 DAYS SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input checked="" type="checkbox"/> ARCHIVE SAMPLES UNTIL / /		REQUESTED ANALYSIS  570-73078 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. 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																																																																																																																																																																																																																																																																		
<table><thead><tr><th rowspan="2">LAB USE ONLY</th><th rowspan="2">SAMPLE ID</th><th rowspan="2">Field Point Name</th><th colspan="2">SAMPLING</th><th rowspan="2">MAT- RIX</th><th rowspan="2">NO. OF CONT</th><th rowspan="2">Perform MS/MSD</th><th rowspan="2">NWT/PH-GX TPH as Gasoline</th><th rowspan="2">NWT/PH-DX TPH as Diesel and Motor Oil</th><th rowspan="2">CONTAINER TYPE</th></tr><tr><th>DATE</th><th>TIME</th></tr></thead><tbody><tr><td>1</td><td>S-2.5-Q1</td><td>S-2.5-Q1</td><td>10/14/2021</td><td>1300</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>2</td><td>S-5-Q1</td><td>S-5-Q1</td><td>10/14/2021</td><td>1305</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>3</td><td>S-7.5-Q1</td><td>S-7.5-Q1</td><td>10/14/2021</td><td>1310</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>4</td><td>S-5-S1</td><td>S-5-S1</td><td>10/14/2021</td><td>1320</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>5</td><td>S-7.5-S1</td><td>S-7.5-S1</td><td>10/14/2021</td><td>1325</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>6</td><td>S-2.5-S1</td><td>S-2.5-S1</td><td>10/14/2021</td><td>1335</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>7</td><td>S-5-Q3</td><td>S-5-Q3</td><td>10/14/2021</td><td>1330</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>8</td><td>S-7.5-Q3</td><td>S-7.5-Q3</td><td>10/14/2021</td><td>1340</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>9</td><td>S-5-C1</td><td>S-5-C1</td><td>10/15/2021</td><td>0820</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>10</td><td>S-7.5-C1</td><td>S-7.5-C1</td><td>10/15/2021</td><td>1010</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>11</td><td>S-10-C1</td><td>S-10-C1</td><td>10/15/2021</td><td>1015</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>12</td><td>S-12.5-C1</td><td>S-12.5-C1</td><td>10/15/2021</td><td>1020</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>13</td><td>S-5-C1 DUP</td><td>S-5-C1 DUP</td><td>10/15/2021</td><td>0825</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>14</td><td>S-2.5-E1</td><td>S-2.5-E1</td><td>10/15/2021</td><td>0840</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>15</td><td>S-5-E1</td><td>S-5-E1</td><td>10/15/2021</td><td>0845</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>16</td><td>S-7.5-D1</td><td>S-7.5-D1</td><td>10/15/2021</td><td>1035</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>17</td><td>S-10-D1</td><td>S-10-D1</td><td>10/15/2021</td><td>1040</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>18</td><td>S-7.5-E1</td><td>S-7.5-E1</td><td>10/15/2021</td><td>1050</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td>19</td><td>S-10-E1</td><td>S-10-E1</td><td>10/15/2021</td><td>1055</td><td>S</td><td>4</td><td></td><td>X</td><td>X</td><td>2 Sodium Bisulfate VOAs, 1 Methanol VOA, one 4oz un-preserved glass jar</td></tr><tr><td colspan="11">Relinquished by (Signature)  Received by (Signature) </td></tr><tr><td colspan="11">Relinquished by (Signature)  Received by (Signature) </td></tr><tr><td colspan="11">Relinquished by (Signature)  Received by (Signature) </td></tr></tbody></table>				LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MAT- RIX	NO. 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35/4.4 SCS



920626



570-73078 Waybill

ORIGIN ID:BFIA (503) 864-1100  
C. BENNER ASH  
CARDNO  
309 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 06/22  
0531/0817/ETJ355

**CALSCIENCE ENVIRONMENTAL LAB**

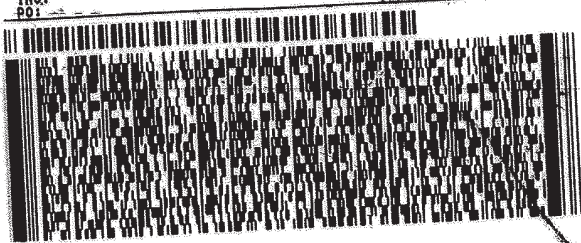
**7440 LINCOLN WAY**

**GARDEN GROVE CA 92841**

(718) 966-4844  
INVT  
PO1

REF:

DEPT:



**FedEx**  
Express



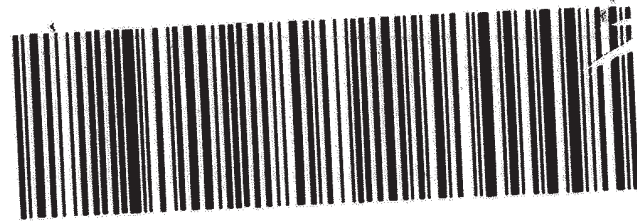
AP1060701208127

TRK# 2849 7296 5596  
0201

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

**WO APVA**

AHS  
92841  
CA-US SNA



## 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 $\leq$ 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 $<6\text{mm}$ (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**



# 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 dark ink and is positioned above a solid horizontal line.

**Title:** RECEIVING CLERK

# CERTIFICATE OF DISPOSAL

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**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

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**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:**

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**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:**

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**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

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**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

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**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

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**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:**

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**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:**

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**Title:** RECEIVING CLERK