AVISO DE REMEDIACIÓN VOLUNTARIA PROPUESTA

Conforme a 20.6.3.300.B NMAC, por el presente se notifica que se ha propuesto un **Acuerdo de Remediación Voluntaria** entre Angel Fire, LLC y el Departamento del Medio Ambiente de Nuevo México (NMED por su sigla en inglés) para una propiedad ubicada en 36.4304940, -105.2943530, Angel Fire, NM. El acuerdo propone las siguientes acciones: caracterizar y remediar la contaminación en el suelo, las aguas superficiales y las aguas subterráneas del sitio. Los contaminantes potenciales incluyen metales, compuestos orgánicos volátiles y compuestos orgánicos semivolátiles. Para obtener más información, llamar al NMED de Santa Fe al 505-670-2496.

Antes de la aprobación de este Acuerdo de Remediación Voluntaria, el NMED dará plazo hasta el **16 de enero de 2022** para la presentación de comentarios escritos y, durante ese período, toda persona interesada podrá solicitar una reunión pública. Las solicitudes para una reunión pública deben enviarse por escrito e indicar los motivos por los que se debería celebrar la reunión. Se celebrará una reunión si el NMED determina que hay considerable interés público.

Los comentarios sobre el acuerdo propuesto y las solicitudes de reunión pública pueden enviarse a:
Jennifer Muus
NMED Ground Water Quality Bureau – VRP
PO Box 5469
Santa Fe, NM 87502-5469

-O-

Jennifer.Muus@state.nm.us

Borrador del Acuerdo de Remediación Voluntaria

NMED no discrimina por motivos de raza, color, origen nacional, discapacidad, edad o sexo en la administración de sus programas o actividades, según lo exigido por las leyes y los reglamentos correspondientes. NMED es responsable de la coordinación de los esfuerzos de cumplimiento y la recepción de consultas relativas a los requisitos de no discriminación implementados por 40 C.F.R. Partes 5 y 7, incluido el Título VI de la Ley de Derechos Civiles de 1964, según enmendada; Sección 504 de la Ley de Rehabilitación de 1973; la Ley de Discriminación por Edad de 1975, Título IX de las Enmiendas de Educación de 1972 y la Sección 13 de las Enmiendas a la Ley Federal de Control de Contaminación del Agua de 1972. Si usted tiene preguntas sobre este aviso o sobre cualquier programa, política o procedimiento de no discriminación de NMED, usted puede comunicarse con la Coordinadora de No Discriminación: Kathryn Becker, Non-Discrimination Coordinator, New Mexico Environment Department, 1190 St. Francis Dr., Suite N4050, P.O. Box 5469, Santa Fe, NM 87502, (505) 827-2855, nd.coordinator@state.nm.us. Si usted piensa que ha sido discriminado/a con respecto a un programa o actividad de NMED, usted puede comunicarse con la Coordinadora de No Discriminación antes indicada o visitar nuestro sitio web en https://www.env.nm.gov/general/environmental-justice-in-new-mexico/ para aprender cómo y dónde presentar una queja de discriminación.

NEW MEXICO ENVIRONMENT DEPARTMENT
VOLUNTARY REMEDIATION AGREEMENT

I. Introduction

This Voluntary Remediation Agreement ("Agreement") is entered into voluntarily by **Angel Fire, LLC,** represented by **Miryam Rosenzweig**, **Authorized Agent**, who is duly authorized and appointed ("Participant") and the secretary of the New Mexico Environment Department ("Department"), or his or her designee, pursuant to the Voluntary Remediation Act, Sections 74-4G-1 et seq. NMSA 1978, and the New Mexico Voluntary Remediation Regulations (20.6.3 NMAC). The purpose of this Agreement is to detail the obligations and functions of each party relevant to the remediation to be conducted at the **Angel Fire, LLC** ("Site"), located at **36.4304940, -105.2943530 in Angel Fire, Colfax County,** under the Voluntary Remediation Program **(VRP Site No. 53191002)**.

The activities conducted by the Participant under this Agreement are subject to approval by the Department. The activities conducted by the Participant shall be consistent with this Agreement, all applicable laws and regulations, and any pertinent guidance documents. The Participant shall employ sound scientific, engineering, and construction practices in the voluntary remediation activities at this Site.

II. Statement of Eligibility

The secretary or his designee has determined that the application, consisting of materials submitted by the Participant to the Department on June 15, 2019 and March 25, 2021, is complete, and that the Participant is eligible to enter into this Agreement in accordance with Section 74-4G-5 NMSA 1978 and 20.6.3.200.A NMAC.

III. Parties Bound

This Agreement shall apply to and be binding upon the Participant, its officers, managing agents, directors, principals, partners, employees, receivers, trustees, agents, parents, subsidiaries and affiliates, and upon the Department, its employees, and agents. The Participant has submitted with the application a signed Declaration of Ability and Intent as set forth in 20.6.3.200.B(2) NMAC. No change in ownership, corporate, or partnership status shall in any way alter the Participant's status or responsibilities under this Agreement unless the Participant or Department terminates this Agreement in accordance with 20.6.3.300.H NMAC.

The Participant shall provide a copy of this Agreement to any subsequent owners or successors before ownership rights are transferred. The Participant shall provide a copy of this Agreement to all contractors, subcontractors, laboratories, and consultants or other parties, which are retained by the Participant, to conduct any work under this Agreement, within 14 days after the effective date of this Agreement or within 14 days of the date of retaining their services.

IV. Designated Project Manager

On or before the effective date of this Agreement, the Department shall designate a project manager. The Primary Applicant specified on the Voluntary Remediation Program Application will function as the project manager for the Participant. Each project manager shall be responsible

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for overseeing the implementation of this Agreement. The Department project manager will be the Department-designated representative at the site. To the maximum extent possible, communications between the Participant and Department and all documents (including reports, approvals, and other correspondence) concerning the activities performed pursuant to the terms and conditions of this Agreement shall be directed through the project managers. During implementation of this Agreement, the project managers shall, whenever possible, operate by consensus and shall attempt in good faith to resolve disputes informally through discussion of the issues. Each party has the right to change its respective project manager by notifying the other party in writing at least five days prior to the change.

V. Definitions

"Site" means the area described in the Voluntary Remediation Application. This description is attached and incorporated herein as Exhibit 1. All other terms used are defined in Section 74-4G-3 NMSA 1978 and 20.6.3.7 NMAC.

VI. Addresses for All Correspondence

Documents, including reports, approvals, notifications, disapprovals, and other correspondence to be submitted under this Agreement, may be sent by certified mail, first class mail, hand delivery, overnight mail, or by courier service to the following addresses or to such addresses as the Participant or Department designates in writing.

Documents to be submitted to the Department should be sent to:

Mailing Address:
Jennifer Muus
Ground Water Quality Bureau
New Mexico Environment Department
P.O. Box 5469
Santa Fe, NM 87502
E-mail: Jennifer.Muus@state.nm.us
Phone number: (505) 670-2496
Fax number: (505) 827-2965

Physical Address:
Jennifer Muus
Ground Water Quality Bureau
New Mexico Environment Department
1190 St. Francis Drive
Santa Fe, NM 87505

Documents to be submitted to the Participant should be sent to:

Mailing Address:
Miryam Rosenzweig, Angel Fire, LLC
c/o Godfrey & Kahn SC. 833
E. Michigan Street, Suite 1800
Milwaukee, WI 53202

Physical Address:
Same as mailing address

VII. Compliance with Applicable Laws

All work undertaken by the Participant pursuant to this Agreement shall be performed in compliance with all applicable federal, state and local laws, ordinances and regulations, including, but not limited to all Occupational Safety and Health Administration, Department of

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Transportation, Resource Conservation and Recovery Act, New Mexico Water Quality Control Commission, and New Mexico Environmental Improvement Board Petroleum Storage Tank regulations. In the event of a conflict between federal, state, or local laws, ordinances, or regulations, the Participant shall comply with the most stringent of such laws, ordinances, or regulations, unless provided otherwise in writing by the Department or other appropriate regulatory personnel with jurisdiction over such laws, ordinances, and regulations. Where it is determined that a permit is required under federal, state or local laws, ordinances, or regulations, the Participant shall submit timely and complete applications and take all other actions necessary to obtain all such permits or approvals. The Participant shall be responsible for obtaining all permits that are necessary for the performance of the work hereunder, and for all ongoing or proposed Site activities, and for all ongoing or proposed facility operations.

VIII. Performance Standards and Associated Requirements

The Participant has submitted with their application to the Department a preliminary work plan describing the proposed voluntary remediation activities as they are currently envisioned as being submitted in a final voluntary remediation work plan, which includes a description of the known and suspected contaminants to be addressed by the proposed voluntary remediation activities. This preliminary work plan was prepared pursuant to 20.6.3.200.B NMAC. A copy of the preliminary work plan is attached and incorporated herein as Exhibit 2.

The contaminants covered by this Agreement are described as follows.
Volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and Resource Conservation and Recovery Act (RCRA) metals in soil, groundwater and surface water.

Voluntary remediation activities undertaken pursuant to this Agreement shall achieve the following standards or risk-based levels:

- *Standards for Ground Water as set forth in Section 20.6.2.3103 NMAC of the Ground and Surface Water Protection Regulations (20.6.2 NMAC); and*
- *Standards for Interstate and Intrastate Surface Waters (20.6.4 NMAC); and*
- *New Mexico Environment Department Risk Assessment Guidance for Site Investigations and Remediation, February 2019; Revision 2 June 2019.*

It is understood that the parties may wish to modify the list of contaminants and the media in which the contaminants are located, as covered by this Agreement, as additional information about the Site is developed. The Department may approve such changes through approval of work plans and other submittals provided by the Participant during the course of undertaking voluntary remediation activities.

IX. Access

To the extent that the Site or other areas where work is to be performed hereunder are presently owned or controlled by parties other than those bound by this Agreement, the Participant shall obtain or shall use its best efforts to obtain access agreements from the present owners. Best efforts shall include, at a minimum, certified letters from Participant to the present owners of such properties requesting access agreements to permit the Participant, Department, and their authorized representatives' access to such property. Such agreements shall provide access for the Department

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and authorized representatives of the Department, as specified below. In the event that such access agreements are not obtained, the Participant shall so notify the Department, which may then, at its discretion, assist the Participant in gaining access.

The Participant shall provide authorized representatives of the Department access to the Site and other areas where work is to be performed at all reasonable times. Such access shall be related solely to the work being performed on the Site pursuant to this Agreement and may include, but is not limited to: inspecting and copying of Site and facility records; reviewing the progress of the Participant in carrying out the terms of this Agreement; conducting such tests, inspections, and sampling as the Department may deem necessary; using a camera, sound recording, or other documentary type equipment for field activities; and verifying the data submitted to the Department by the Participant hereunder**.** Prior to conducting remediation activities, the Participant shall provide a minimum of 72 hours' notice to the Department to allow observation of Site activities and to allow the Department's authorized representatives to collect split samples, at the Department's discretion**.** The Participant shall permit the Department's authorized representatives to inspect and copy all records, files, photographs, documents, and other writings, including all sampling and monitoring data, which pertain to this Agreement and over which the Participant exercises authority.

X. Deliverables and Submittal Schedule

A. Final Voluntary Remediation Work Plan

In accordance with 20.6.3.400 NMAC, the Participant shall submit to the Department a proposed final voluntary remediation work plan, detailing investigation and remediation activities to be undertaken to achieve the performance standards described in Section VIII of this Agreement. At a minimum, the final work plan must include the elements listed in 20.6.3.400.B NMAC.

Submittal Schedule:
The proposed final work plan shall be submitted by the Participant no later than 60 days after this Agreement has been signed.

If the work plan is to be prepared in phases, the work plan for the first phase shall be submitted no later than 60 days after this Agreement has been signed. Following completion, to the Department's satisfaction, of the work which is the subject of the final work plan for the first phase, the Department may require submission of one or more proposed final work plans for subsequent phases.

Department Review:
The secretary or his designee shall review and approve, approve with conditions, or disapprove a proposed final work plan within 45 days of receipt. Written notice shall be made of any conditions or deficiencies. If the secretary or his designee disapproves a final work plan, the Participant may be granted an opportunity to submit a revised version, as determined by the secretary or his designee.

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Modification of Voluntary Remediation Work Plan:
The approved final voluntary remediation work plan may be modified at the request of the Participant and/or the Department, with both parties' approval, in accordance with 20.6.3.400.D NMAC.

B. Periodic Status Reports

The Participant shall submit periodic status reports, which detail activities completed for the reporting period and those planned for the upcoming reporting period, to the Department for the duration of this Agreement. The status report shall identify any proposed variances to the approved work plan and describe interim progress on implementation of the work plan, including analytical results of any sampling, water level measurements, Site maps or photos, as appropriate.

Submittal Schedule:
The first status report shall be submitted by the Participant no later than 90 days after this Agreement has been signed. Subsequent status reports shall be submitted on a quarterly basis until the completion report is submitted to the Department.

C. Voluntary Remediation Completion Report

In accordance with 20.6.3.500.B NMAC, following the completion of Site voluntary remediation activities, the Participant shall demonstrate to the Department that Site conditions meet the applicable standards specified in Section VIII of this Agreement by submitting to the Department a voluntary remediation completion report. The content of the completion report is detailed in 20.6.3.500.B NMAC. The report shall be submitted to the Department with the legal description of the affected property, and with an Affidavit of Completion of Voluntary Remediation signed by the Participant that indicates that remediation is complete, in accordance with this Agreement and applicable regulations and guidance.

Submittal Schedule:
The voluntary remediation completion report shall be submitted to the Department within 90 days following completion of voluntary remediation activities.

Department Review:
The Department shall review and determine the sufficiency of a completion report within 45 days of receipt. If the secretary or his designee does not approve the completion report, the secretary or his designee shall either issue a finding that the Participant is not in compliance with the Agreement and terminate the Agreement, or advise the Participant in writing of data gaps in the report. The Participant shall correct any identified data gaps and resubmit the completion report within 30 days of receipt of notice of data gaps.

XI. Certificate of Completion

If the secretary or his designee approves the voluntary remediation completion report, the secretary or his designee will issue either a Certificate of Completion or a Conditional Certificate of Completion, as appropriate, pursuant to Section 74-4G-7 NMSA 1978 and 20.6.3.500.B NMAC.

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If a Conditional Certificate of Completion is issued, the Department shall conduct audits to ensure that all engineering controls, remediation systems, post-closure care, and affirmations of future non-residential land use are being maintained appropriately. These audits shall be performed at least every other year for the first 10 years following the issuance of the Conditional Certificate of Completion, and every five years thereafter. If, during the course of such an audit, the Department finds that any of the monitoring requirements, engineering controls, remediation systems, post-closure care, or affirmations of future non-residential land use are not being properly maintained such that the performance standards described in Section VIII of this Agreement are no longer being met, the Department may revoke the Conditional Certificate of Completion and initiate an enforcement action.

No Certificate of Completion or Conditional Certificate of Completion shall be issued to a Participant who has not paid invoiced oversight costs in full to the Department.

XII. Covenant Not to Sue

Pursuant to Section 74-4G-8 NMSA 1978 and 20.6.3.600 NMAC, after the secretary or his designee issues the Certificate of Completion or Conditional Certificate of Completion, the secretary or his designee shall provide a covenant not to sue to a purchaser or prospective purchaser of the Site that did not contribute to the Site contamination, for any direct liability, including future liability, for claims based upon the contamination covered by the Agreement and over which the Department has authority. Except as may be provided under federal law or as may be agreed to by a federal government entity, the covenant not to sue shall not release or otherwise apply to claims by the federal government for claims based on federal law. Except as may be agreed to by another department or agency of the state, the covenant not to sue shall not release or otherwise apply to claims of any other office, department, or agency of the state. Except as may be agreed to by a third party, the covenant not to sue shall not release or otherwise affect a person's liability to third parties.

XIII. Dispute Resolution

This section shall apply to any dispute arising under any section of this Agreement, unless specifically excepted. Dispute resolution shall be conducted in accordance with 20.6.3.300.I NMAC).

XIV. Reservation of Rights

The Department and Participant reserve all rights and defenses they may have pursuant to any available legal authority unless expressly waived herein. The Department expressly reserves the right to take any action, including any enforcement action, to address any release not covered by this Agreement, including any release that occurs after issuance of the Certificate of Completion or any release of a contaminant not covered by the voluntary remediation agreement. The secretary's covenant not to sue shall not apply to any such release.

Nothing herein is intended to release, discharge, or in any way affect any claims, causes of action or demands in law or equity which the parties may have against any person, firm, partnership or corporation not a party to this Agreement for any liability it may have arising out of, or relating in any way to the generation, storage, treatment, handling, transportation, release or disposal of any

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materials, hazardous substances, hazardous waste, contaminants or pollutants at, to, or from the Site. The parties to this Agreement expressly reserve all rights, claims, demands, and causes of action they have against any and all other persons and entities who are not parties to this Agreement, and as to each other for matters not covered hereby.

The Participant reserves the right to seek contribution, indemnity, or any other available remedy against any person other than the Department found to be responsible or liable for contribution, indemnity or otherwise for any amounts which have been or will be expended by the Participant in connection with the Site.

XV. Enforcement Shield

Pursuant to the provisions of 20.6.3.300.A NMAC, the secretary will not initiate any enforcement action, including an administrative or judicial action, against a Participant for the contamination or release thereof, or for the activity that results in the contamination or release thereof, if the contamination is the subject of an Agreement pursuant to 20.6.3 NMAC. However, this Section shall not be a bar to any enforcement action if the Agreement is not finalized, if the Agreement is terminated or rescinded, or if the Participant does not successfully initiate or implement the Agreement within a reasonable time under the schedules set forth in this Agreement and approved work plans.

XVI. Oversight Costs

The Participant agrees to reimburse the Department for all of its costs associated with oversight and implementation of this Agreement in accordance with 20.6.3.300.J NMAC. These costs shall include those described in 20.6.3.300.J NMAC, as well as long-term oversight performed by the Department, as described in 20.6.3.500.B(5) NMAC, if a Conditional Certificate of Completion is issued.

Oversight will be invoiced based on actual hours of staff oversight, at a variable rate beginning at $90.00 per hour. The hourly rate is calculated and updated on November 1 of each year, following a 30 calendar day public comment period. Travel and per diem costs will be invoiced at state-designated rates. Sampling and analysis costs will be invoiced at actual cost plus indirect overhead rate.

The Department will track all costs to the Department for review and oversight activities related to the Site and provide quarterly (or more often at the discretion of the Department) invoices per this Agreement for said costs. The Participant shall pay these invoiced costs to the Department within 30 calendar days after the date that the Participant receives notice that these costs are due and owed. If payment is not made within 30 days, the Department may terminate this Agreement and bring an action to collect the amount owed and the costs of bringing the collection action. If the Department prevails in such collection action, the Participant shall pay the Department's reasonable attorneys' fees and costs incurred in the collection action.

In the event that this Agreement is terminated for any reason, the Participant agrees to reimburse the Department for all costs incurred or obligated by the Department before the date of notice of termination of the Agreement.

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XVII. Notice of Bankruptcy

As soon as Participant has knowledge of its intention to file bankruptcy, or no later than seven days prior to the actual filing of a voluntary bankruptcy petition, Participant shall notify the Department of its intention to file a bankruptcy petition. In the case of an involuntary bankruptcy petition, Participant shall give notice to the Department as soon as it acquires knowledge of such petition.

XVIII. Indemnification

The Participant shall defend, indemnify, and hold harmless the Department and the State of New Mexico from all actions, proceedings, claims, demands, costs, damages, attorneys' fees, and all other liabilities and expenses of any kind from any source which may arise out of the performance of this Agreement, caused by the negligent act or failure to act of the Participant, its officers, employees, servants, subcontractors or agents, or if caused by the actions of any client of the Participant resulting in injury or damage to persons or property during the time when the Participant or any officer, agent, employee, servant or subcontractor thereof has or is performing services pursuant to this Agreement.

XIX. Effective Date and Subsequent Modification

The Agreement shall become final and effective upon being signed by both the secretary or his designee and the Participant. The effective date of the Agreement shall be the later date of signature by either the secretary or his designee or the Participant. This Agreement may be amended only by mutual agreement of the Department and the Participant. Amendments shall be in writing and shall be effective upon being signed by both the secretary or his designee and the Participant.

XX. Termination

As provided for in 20.6.3.300.H NMAC, if an Agreement is not reached between an applicant and the secretary or his designee on or before the 30th calendar day after the secretary or his designee determines an applicant to be eligible pursuant 20.6.3.200 and 20.6.3.300 NMAC, the applicant or the secretary or his designee may withdraw from the negotiations. The Participant may terminate the voluntary remediation Agreement upon 60 calendar days' written notice via certified mail, return receipt requested to the Department. The secretary or his designee may terminate this Agreement upon finding that the Participant is not in compliance with this Agreement. Notice of termination will be made to the Participant via certified mail, return receipt requested, and facts supporting the rationale for termination shall be set forth in the notification. The Department's costs incurred or obligated before the date the notice of termination is received are recoverable by the Department under the Agreement if the Agreement is terminated.

XXI. Complete Agreement

This Agreement contains the entire Agreement of the parties.

XXII. Applicable Law

This Agreement shall be governed by and construed in accordance with the laws of the State of New Mexico.

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The provisions of this Agreement shall be satisfied when the Department gives the Participant written notice in the form of a Certificate of Completion that the Participant has demonstrated to the secretary's satisfaction that the terms of this Agreement have been completed, including the selection and implementation of a remedial action, when appropriate.

Nothing in this Agreement shall restrict the State of New Mexico from seeking other appropriate relief to protect human health or the environment from contamination at or from this Site if not remediated in accordance with this Agreement.

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Signatures

Participant(s):

By: _____ Name: _____
(Signature of authorized representative) (Print or type)

Date: _____

New Mexico Environment Department:

By: _____ Name: _____
(Secretary or designee) (Print or type)

Date: _____

Enclosures: Exhibit 1: Legal Description of Property
Exhibit 2: Preliminary Work Plan

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NEW MEXICO ENVIRONMENT DEPARTMENT
VOLUNTARY REMEDIATION AGREEMENT

EXHIBIT 1
Legal Description of Property

Angel Fire, LLC site
VRP Site No. 53191002

The site is a 78.6-acre parcel located at 36.4304940, -105.2942430, more particularly described as lots 150, 167 and 168 of the Moreno Valley land third subdivision in the Maxwell Land Grant, Colfax County, New Mexico.

The site map is included on the following page.

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Legend

Site Location

N

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Site Location Map

Angel Fire LLC
Angel Fire, New Mexico

Geosyntec consultants

HG1622 | June 2019

Figure 1

P:\CAD_GIS\Projects\HY1622_Angel Fire\MXDs\Figure 1 Site Location Map.mxd 5/31/2019 12:37:55 PM

NEW MEXICO ENVIRONMENT DEPARTMENT
VOLUNTARY REMEDIATION AGREEMENT

EXHIBIT 2
Preliminary Voluntary Remediation Work Plan

Angel Fire, LLC Site
VRP Site No. 53191002

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Prepared for:

Godfrey & Kahn S.C.

Preliminary Voluntary Remediation Work Plan

Angel Fire LLC
Angel Fire, New Mexico

Prepared by:

Geosyntec consultants

engineers | scientists | innovators

2100 Main Street, Suite 150
Huntington Beach, CA 92648
Telephone: (714) 969-0800
Fax (714) 969-0820
www.geosyntec.com

Project Number: HG1722

June 15, 2019

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LIST OF ACRONYMS AND ABBREVIATIONS

amsl	above mean sea level
ASCE	American Society of Chemical Engineers
AST	aboveground storage tank
bgs	below ground surface
CAR	Corrective Action Report
CHES	Clean Harbors Environmental Service
COCs	Chemicals of Concern
DAF	Dilution Attenuation Factor
EPA	United States Environmental Protection Agency
ft	foot, feet
Geosyntec	Geosyntec Consultants Inc.
HASP	Health and Safety Plan
IDW	investigation derived waste
LIF	laser induced fluorescence
LUST	Leaking Underground Storage Tank
MCL	Maximum Contaminant Level
mg/kg	milligram per kilogram
mg/L	milligrams per liter
MJF	Milwaukee Jewish Federation
Moraine	Moraine Environmental, Inc.
NAPL	Non-Aqueous Phase Liquids
NGPRS	National Ground Penetrating Radar Services, Inc.
NMED	New Mexico Environment Department
NMSSLs	New Mexico Soil Screening Levels
OSHA	Occupational Safety and Health Administration
PAH	polyaromatic hydrocarbons
PCP	Pentachlorophenol
ppm	parts per million
QA/QC	Quality Assurance/Quality Control
RE	Reference Emitter
SVOC	semi-volatile organic compound
TarGOST	Tar-Specific Green Optical Screening Tool

LIST OF ACRONYMS AND ABBREVATIONS (Continued)

TPH	total petroleum hydrocarbons
TPH-DRO	Total petroleum hydrocarbons as diesel
µg/L	micrograms per liter
USA	Underground Service Alert
UST	underground storage tank
VOC	volatile organic compounds
VRP	Voluntary Remediation Program
WQCC	Water Quality Control Commission

1. INTRODUCTION

Geosyntec Consultants, Inc. (Geosyntec) has been retained by Godfrey & Kahn S.C. (Godfrey Kahn) on behalf of Angel Fire, LLC to prepare a Preliminary Voluntary Remediation Work Plan (Work Plan) for the Former Creosote Wood Treatment Plant, Angel Fire, LLC (Site or property), located in Angel Fire, New Mexico (**Figure 1**). The Milwaukee Jewish Federation, Inc. (MJF) has an ownership interest, through an affiliated business, in Angel Fire, LLC, which owns the undeveloped land in Angel Fire, New Mexico. The property was donated by supporters of the MFJ. This Work Plan has been prepared in response to a letter from the New Mexico Environment Department (NMED) to MJF dated February 8, 2019, requiring the current property owner "to submit either a Voluntary Stage 1 Abatement Plan (S1AP) proposal per 20.6.6.4106.B NMAC, or an application for a voluntary remediation agreement (VRA) in accordance with 20.6.3.200B NMAC." In response to NMED's request, the MJF notified NMED of their intent to enter the Voluntary Remediation Program (VRP) and on April 15, 2019, NMED notified the MJF via email of a due date of June 16, 2019 for submittal of the VRP Application. This Work Plan has been prepared to satisfy the requirements of NMED's VRP Application.

1.1 Background

The Site is located in northern central New Mexico (**Figure 1**), approximately 25 miles east of Taos, New Mexico, at an elevation of approximately 8,500 feet (ft) above mean sea level (amsl). The Site is located adjacent to the east of Highway 64 and adjoins the local municipal airport of Angel Fire to the east. The Site consists of "Lots 150, 167 and 168 of the Moreno Valley land third subdivision in the Maxwell Land Grant, Colfax County, New Mexico" [Moraine, 1996].

1.1.1 Site History

Historical information for the Site is limited, and what is known of the Site history has been obtained from a previous investigation report prepared in 1996 by Moraine Environmental Inc. (Moraine). The Site was previously developed as a creosote wood treating plant. Although the date of initial development at the Site is not known, Moraine reported that the creosote aboveground storage tanks (ASTs) were between 45 and 46 years old (in 1996). Assuming the ASTs were installed during initial development, that would indicate the Site was first developed in the early 1950s. The Site was previously known as the Chudnow Property, after owner Mr. Chudnow, the Site was reportedly donated to the MJF by Mr. Chudnow "within the last few years." [personal communication, MJF, 2017].

1.1.2 Site Conditions Prior to Recent Site Investigations

Based on information included in a letter from NMED [2017a], a Site inspection conducted in April 2016 by NMED [NMED, 2016] and the Moraine 1996 report, the Site conditions before field activities conducted by Geosyntec included the following (**Figure 2**):

1. Three ASTs that appear to have been used for creosote storage. The ASTs appear to be of steel construction and approximately 9.5 ft in diameter and 12 ft tall [Moraine, 1996];
2. A surface feature that appears to have been a former concrete dispenser island. This has led to speculation of the presence of an associated underground storage tank (UST). A second concrete dispenser island was noted adjacent to the first;
3. Concrete pit, approximately 30 ft by 20 ft with a depth of 6 ft to 7 ft bgs [Moraine, 1996];
4. Well pit measuring 4.5 ft by 4.5 ft, that contained a six-inch diameter steel casing approximately 30 ft deep during Moraine's investigation in 1996;
5. Wood framed shed and former pole shed;
6. Debris piles (metal and wood);
7. Shallow seasonal pond; and
8. Three compost piles.

The Site is no longer in use for wood-treatment activities, nor on-Site composting and is currently used for storage of horse-led wagon and sleigh ride related equipment.

1.2 Chemicals of Concern

Based on the historical chemical use and analytical data presented in the 1996 Moraine report, and the PAH-creosote-related compounds listed in Table A-1: NMED Soil Screening Levels and DAF-20 values in Volume I Soil Screening Guidance for Human Health Risk Assessments, of the *NMED Risk Assessment Guidance for Site Investigations and Remediation* [NMED, 2017b] the chemicals of concern for the Site included the following:

1. Acenaphthene
2. Anthracene
3. Benzo(a)anthracene
4. Benzo(a)pyrene
5. Benzo(b)fluoranthene
6. Benzo(k)fluoranthene
7. 1,1-Biphenyl
8. Chrysene
9. Dibenz(a,h)anthracene
10. Fluoranthene
11. Fluorene
12. Methylnaphthalenes
13. Naphthalene
14. Pentachlorophenol (PCP)
15. Phenanthrene
16. Pyrene
17. Total petroleum hydrocarbons
18. Fuel-related hydrocarbons

1.3 Regulatory Background

The MJF's involvement in Site investigation activities began and upon receipt of a letter from NMED dated January 20, 2017 [NMED, 2017a]. In this letter, NMED requested the submittal of a workplan to characterize the Site, control and eliminate the source of discharge from ASTs at the Site, propose subsequent remedial actions and abatement and propose a submittal date for a Corrective Action Report (CAR). Details of Site investigation activities conducted in response to NMED's letter are included in Section 3.

2. WORK PLAN ORGANIZATION

The remainder of the Work Plan is organized as follows:

- Section 3, “Previous Site Investigations” presents a summary of previous investigations conducted at the Site;
- Section 4, “Previous Remediation Activities” presents a summary of remedial activities conducted at the Site;
- Section 5, “Proposed Sampling and Analysis” describes the approach to data collection and evaluation;
- Section 6, “Proposed Remediation Activities” describes the proposed remedial activities; and
- Section 7, “References” provides a list of cited references.

3. PREVIOUS SITE INVESTIGATIONS

An initial Site investigation was conducted by Moraine [1996], and in 2017 Geosyntec conducted additional field activities in three phases at the Site between October 2017 and April 2018, which consisted of an initial site inspection, characterization and abatement of discharge, and a subsurface investigation. Summaries of these historical investigation programs are included below to provide a historical background to the progression of activities that have led to the current understanding of the environmental conditions at the Site.

3.1 Initial Site Investigation

In their 1996 report, Moraine described a comparative analysis of chemical constituents of residual creosote from one of the ASTs with Total Petroleum Hydrocarbons (TPH) and concluded that TPH would be an adequate surrogate for creosote contaminants during subsurface investigations [Moraine, 1996]. Between July 18 and July 19, shallow soil borings were advanced at 12 locations between 1.0 and 5.5 feet below ground surface (bgs). Soil samples were collected and analyzed for TPH as Diesel (TPH-DRO), with three samples also analyzed for semi-volatile organic compound (SVOC) using United States Environmental Protection Agency (EPA) Method 8270C. Three samples were also collected from "visually-impacted" areas to support an evaluation of the ability of indigenous microorganisms to degrade hydrocarbons. One grab surface water sample was collected from the pond area and analyzed for SVOCs.

Figure 2 depicts the results of the investigations conducted by Moraine; which indicate the presence of creosote impacts to shallow soil, with the highest concentrations of TPH and SVOCs reported in the vicinity of the ASTs. Concentrations of TPH ranged from 17 to 93,000 milligrams per kilogram (mg/kg) and are illustrated in Figure 2 [Moraine, 1996].

SVOC analysis indicated the presence of PCP and polyaromatic hydrocarbons (PAH) consisting of acenaphthene, anthracene, benzo(a)anthracene chrysene, dibenzofuran, fluoranthene, fluoranthene, fluorene, phenanthrene, and pyrene. PCP and PAHs were detected at the three sample locations where SVOC analyses were conducted, including locations #1 (adjacent to the ASTs), #8 (between the wood and metal piles in the drainage swale) and the pond sludge. The highest concentrations of SVOCs were reported at sample location #1 and included PCP, phenanthrene, fluoranthene and benzo(a)anthracene at concentrations of 7,400; 3,800; 3,000; and 370 mg/kg, respectively.

New Mexico soil screening levels (NMSSL) and New Mexico-specific dilution attenuation factor-1 (DAF-1) and -20 (DAF-20[1]) were not available for Moraine to compare results to in 1996. A comparison with the 2017 NMSSLs, indicate that PCP and benzo(a)anthracene were reported above the Industrial/Occupational soil cancer NMSSLs of 44.5 mg/kg and 32.3 mg/kg, respectively. A comparison with DAF-20 indicated that acenaphthene, benzo(a)anthracene, chrysene, fluoranthene, fluorene, PCP, phenanthrene, and pyrene, were present at concentrations greater than their respective DAF-20 value. Other compounds were not reported above their respective industrial NMSSLs for either cancer or non-cancer risk, or DAF-20 value.

3.2 2017 Site Inspection

An initial inspection was conducted at the Site between October 4 and October 5, 2017 by a Geosyntec geologist. The purpose of the site inspection was to assess current conditions at the Site and evaluate potential access restrictions for subsequent field activities.

During the initial site inspection, the following conditions were observed:

1. Three ASTs, approximately 12 ft by 9 ft 7 inches (in.). were present and intact with some damage (corrosion) to the top covers. Approximately 6 in. to 18 in. of liquid was present in each AST. According to Site tenants, the ASTs had been pumped out in the mid-1990s; based on the corrosion on the top covers, the liquid content was likely a mixture of residual material in the ASTs and precipitation. Staining was observed at the base of one of the ASTs, in the vicinity of a valve connecting the AST to some adjacent piping. The staining was crusty and could be lifted with a shovel. A sample of the staining was collected and submitted for testing against Laser-Induced Fluorescence (LIF)-Tar-specific Green Optical Screening Tool (LIF-TarGOST) by Dakota Technologies. The sample did not respond readily to LIF-TarGOST, which may in part have been due to volatilization of lighter PAHs or cracking of PAHs by ultraviolet light.

2. Debris piles containing likely residential, agricultural and commercial debris were present on the Site, with some untreated wood poles. The vehicles previously identified on-Site were vehicle shells with no apparent fuel tanks or engines.

[1] An assessment of the EPA-derived DAF was conducted using New Mexico-specific environmental parameters including hydraulic conductivities associated with fine-grained sand and infiltration rates associated with semi-arid and arid environments. The NMED determined that a DAF of approximately 20 for a 0.5-acre source acre is protective of groundwater in New Mexico [NMED, 2017b].

3. During the initial site visit, the on-Site pond had water to a depth of approximately 3 in. to 6 in., with some debris present in the pond.

4. Evidence of the presence of USTs was not observed at the Site.

The presence of liquid material in the ASTs represented a potential ongoing source of liquid discharge at the Site, consequently the characterization of liquid material inside the ASTs was scheduled for November 2017, and the removal of liquid material from the ASTs and the removal of the ASTs themselves was tentatively scheduled for early December 2017.

3.3 Characterization and Abatement of Discharge

3.3.1 Liquid material characterization

Liquid samples were collected from inside each of the three ASTs by Clean Harbors Environmental Service (CHES) of Albuquerque, New Mexico on November 16, 2017. The samples were submitted to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico as one composite sample on November 17, 2017. The levels of SVOCs reported within the composite sample were considered as non-hazardous for subsequent disposal (**Appendix A**).

On December 4, 2017, CHES and a Geosyntec geologist mobilized to the Site to abate the discharge, conduct geophysical subsurface utility location and collect surface TPH samples.

3.3.2 Abatement of Discharge

On December 5, 2017 CHES started abating the discharge at the Site by pumping the liquid material from the three ASTs into a vacuum truck. Between December 5 and December 8, 2017, CHES removed the top covers and side portions of the three ASTs, and a total of approximately 150 gallons of liquid material from the three ASTs combined. A solid material, with an asphalt-like texture was identified in the bottom of two of the ASTs and a solid, granular material was identified in the bottom of the third AST. A waste profile of the solid material had not been previously collected, consequently the solid material could not be removed and disposed of in the same mobilization as the liquid material. Samples of the solid material were collected by CHES and submitted for waste characterization to facilitate removal and disposal at a later date. The material was subsequently classified by CHES as non-hazardous semi-solid and suitable for landfarming (**Appendix A**). The sides of the ASTs were removed down to approximately 2 ft above the ground surface to contain the solid material within the ASTs, and tarps were placed over the top of the ASTs to reduce additional precipitation entering the ASTs.

Geosyntec notified the NMED the week of December 10, 2017, that the removal of the liquid material from the ASTs, and the covering of the ASTs to reduce the entrance of precipitation constituted the abatement of discharges from the ASTs at the Site.

3.3.3 Geophysics Subsurface Clearance

Concurrent with source abatement, National Ground Penetrating Radar Service Inc., of Minneapolis, Minnesota (NGPRS) conducted a subsurface assessment at the Site on December 5, 2017 to clear potential boring locations and to assess the potential presence of a former UST at the Site. NGPRS used a combination of ground penetrating radar and electromagnetic induction to locate exterior underground utilities and the potential UST in accordance with the American Society of Chemical Engineers (ASCE) Standard 38-02. No indication of the presence of a UST was observed, however, the proliferation of metal debris throughout the Site and the steel ASTs created excessive interference and prevented the resolution of subsurface utilities at depths greater than 3.5 ft bgs.

3.3.4 Surface TPH Sampling

Surface soil samples were collected on December 5 and December 6, 2017 and analyzed in the field using a Dexsil PetroFLAG TPH Analyzer System (PF-MTR-01), by Dexsil Corporation of Hamden, Connecticut. The field test kit is used for analysis of petroleum hydrocarbons in soil, using turbidometric development and has been assigned an EPA SW-846 Method 9074. The method detection range is reported as 15 to 2,000 parts per million (ppm) and was used as both a confirmation field test screening method of previous investigations at the Site and screening of other potential areas of impact. Samples were collected from the surface to 0.5 bgs since the frozen ground surface at the Site prevented sampling from greater depths. A total of 34 samples were collected, and 33 samples analyzed since one sample was collected within composting operations.

TPH was detected in each of the 33 samples analyzed, Reported TPH concentrations ranged from 50 to 2,580 parts per million (ppm), with three samples reportedly too high for resolution (greater than 2,580 ppm). The results are presented in **Table 1** and **Figure 3** and were generally comparable with previous investigations with elevated concentrations of TPH around the three ASTs, in the drainage area to the east and south of the ASTs, in debris piles, and in the pond area. At the time of the sampling in early December 2017, the pond area was dry.

3.4 Subsurface Investigation

Subsurface investigation field activities were conducted at the Site between April 24 and April 28, 2018 and consisted of screening with LIF-TarGOST, soil sampling, and grab water sampling (**Figure 4**).

3.4.1 LIF-TarGOST

LIF is a well-established technology that relies on the fluorescence of PAHs when stimulated with a laser. A laser-windowed probe is advanced steadily down into the soil column using direct push technology and pulses of laser are emitted into the surrounding soil, fluorescence is detected by the probe and used to assess relative fluorescence with depth compared with a target wavelength spectrum to a reference emitter (RE), vertically delineating areas of potential impact from PAH-containing materials. The technology can be used to rapidly screen an impacted area to target subsequent soil sampling. LIF-TarGOST is a tool specifically designed for detecting PAH-components of tar (including creosote). LIF-TarGOST is not effective in delineating hydrocarbons associated with gasoline or the non-PAH fractions of diesel and was not used to attempt to delineate the potential UST in the northwestern portion of the Site. LIF-TarGOST is also not effective with chlorinated PAHs, however Site history does not suggest that these would be present beyond fluorene and fluoranthene [Moraine, 1996].

For the Site, LIF-TarGOST was used to screen 21 boring locations for potential impacts from historic Site operations. LIF-TarGOST sampling was conducted on April 24 and April 25, 2018, with 11 and 10 borings advanced respectively. After completing a boring, the boring was backfilled with bentonite to ground surface, and the location marked with a survey stake. Total depth for borings varied from approximately 18 ft bgs to 22 ft bgs, and the boring locations are indicated in **Figure 5**. Considerable variation in fluorescence (abundance of PAHs) was observed vertically within borings and laterally between borings (**Figure 5**). The highest fluorescence with a RE value of 611% was observed in B-01 (**Figure 5**) at a depth of approximately 5.5 ft bgs to 9.5 ft bgs, located immediately adjacent to the northeastern AST (**Figure 5**), while minimal fluorescence above background was noted in borings to the north, south, west, northwest and northeast of the ASTs (**Figure 5**), with R.E. values typically less than 10%. Lateral distribution of PAHs in soil in the vicinity of the ASTs appeared limited to an area of approximately 40 ft east to west and 20 ft north to south centered between B-01 (RE of 611%) and B-02 (RE of 142.6%). PAH-impacted soil was generally located between approximately 6 and 9 ft bgs which coincide with the water table. Lower levels of fluorescence were observed in the drainage swale and higher fluorescence again observed in the pond area (**Figure 5**). RE values in the drainage swale were 62.1% and 30.5% in B-12 and B-14, respectively,

at the likely depth of groundwater. These RE values are lower than beneath the ASTs (R.E. = 611%).

In the pond and drainage swale, PAH-impacted soil was located between approximately 4 and 7 ft bgs with R. E. values for B-16 and B-18 of 510% and 287.9%, respectively.

Fluorescence charts including R.E. values plotted as a function of depth for each boring have been included in **Appendix B**.

3.4.2 Soil Sampling

Soil sample locations were based on several factors, including areas of historic operations and use of ASTs, visually-apparent staining, previous investigations, surface soil sampling conducted in October 2017, real-time measurement technologies including the LIF-TarGOST analysis conducted on April 24 and 25, 2018, and TPH soil kits.

The 23 soil sampling locations collected in April and October 2018 are illustrated in **Figures 4, 6 and 7**. Borings were advanced, cores were logged, and samples collected using direct-push technology per the NMED-approved Work Plan. Boring logs for each boring are included in **Appendix C**, and comprise the total depth, soil sample location, sample depth, observations on Unified Soil Classification System (USCS) logging, odors or staining, and depth and length of well screen as appropriate. Borings DP-01 to DP-08 were advanced on April 26, 2018, borings DP-09 to DP-17 were advanced on April 27, 2018, and borings DP-18 to DP-20 were advanced on April 28, 2018. Soil samples were collected from each boring at either the depth of highest LIF-TarGOST fluorescence, a geologic anomaly (such as a gravel layer), the highest TPH reading, strong odor or obvious visible staining. Borings were back-filled with hydrated bentonite after samples were collected, if the boring was not converted into a temporary piezometer. Samples were stored on ice until April 30, 2018 then shipped using an overnight courier to TestAmerica of Irvine, California for Volatile organic compound (VOC) and SVOC analysis by EPA Methods 8260B and 8270C, respectively. Three soil samples were collected from PZ-12, -19, and -20 on October 16 and 17, 2018 and submitted to TestAmerica of Irvine, California for SVOC and metals analysis by EPA Methods 8270C and 6010B, respectively. Detected concentrations of VOCs, SVOCs, and metals in soil are presented in **Table 2** and **Table 3**.

Nine VOC compounds were detected in soil samples ranging in concentration from 0.0056 to 110 mg/kg. Naphthalene was reported at the highest concentration and was the

most frequently detected VOC. The highest concentrations of naphthalene[2] were reported in DP-11-5', DP-14-6' and DP-15-7', with respective naphthalene concentrations of 110, 68, and 13 mg/kg (**Figure 6**), these three soil sample locations are in the drainage swale and pond area. None of the reported detections of naphthalene exceeded the lowest NMSSL (residential soil, non-cancer, with a value of 1.16E+03 mg/kg) at the Site. The highest concentration of naphthalene detected was approximately 10-fold lower than the residential soil, non-cancer NMSSL [NMED, 2017b]. Naphthalene was detected at concentrations greater than the DAF-20 of 8.23E-02 (0.0823 mg/kg) with detections of 110, 68, 13, 5.1, 1.1, 0.62, and 0.38 mg/kg at DP-11-5', DP-14-6', DP-15-7', DP-18-4', DP-19-5', DP-1-13', and DP-16-8', respectively. Based on the exceedance of the DAF-20 value, naphthalene may theoretically be detected in groundwater at the Site.

Other detected VOCs were reported between 0.0056 and 0.51 mg/kg and included various isomers of benzene including 1,2,4-trimethyl benzene, 1,3,5-Trimethylbenzene, ethylbenzene, isopropylbenzene, butylbenzene, and propylbenzene. Ethylbenzene was the only detected VOC with a NMSSL other than naphthalene, which was detected at DP-7-10' with a concentration of 0.290 mg/kg, several orders of magnitude below the corresponding NMSSL, and slightly above the DAF-20 value of 0.264 mg/kg. The benzene and toluene isomers were detected in DP-1-13', DP-4-6', DP-5-11', DP-6-12', DP-7-10' and DP-9-12, generally located around the ASTs, and the area between the ASTs and compost piles.

Thirteen SVOC compounds were detected in soil, ranging in concentration from 0.39 to 320 mg/kg, with PCP reported at the highest concentration of 320 mg/kg in DP-4-6'; however, PCP was detected in only four soil samples, DP-1-13', DP-4-6', DP-18-4', and PZ-20-7' and was not the most frequently detected SVOC (**Table 3**). Dibenzofuran, fluoranthene, fluorene, phenanthrene and pyrene were each detected in 8 samples, DP-1-13', DP-4-6', DP-11-5', DP-14-6', DP-18-4', PZ-19-10', and PZ-20- ''. The distribution of phenanthrene detections in soil, which is also a surrogate for the other detected PAHs, is presented on **Figure 7** Naphthalene was reported using both VOC and SVOC analysis, detected naphthalene concentrations were approximately 2-fold higher for VOC analysis than for SVOC analysis. None of the detected SVOCs exceeded the corresponding lowest NMSSLs except for PCP; however, 1-methylnaphthalene, 2-methylnaphthalene, ethylbenzene, naphthalene, PCP and phenanthrene exceeded their corresponding DAF-20 values to varying degrees (**Table 3**).

[2] Naphthalene was reported as both a VOC and SVOC, the largest concentrations have been used for reporting in Figure 6 and for comparison with NMSSLs.

PCP was the only compound that exceeded both NMSSLs and DAF-20 values, exceedances of the NMSSLs occurred in two locations adjacent to the ASTs, DP-1-13' and DP-4-6'. PCP soil concentration at DP-4-6' was 320 mg/kg; exceeding the residential soil cancer, residential soil non-cancer, and industrial/occupational soil cancer NMSSLs of 9.85 mg/kg; 234 mg/kg; and 44 mg/kg, respectively. PCP soil concentration at DP-1-13' was 85 mg/kg, exceeding only the industrial/occupation soil cancer NMSSL. The DAF-20 value for PCP was exceeded at DP-1-13', DP-4-6' and DP-18-4', by between one and four orders of magnitude.

Based on the exceedances of the DAF-20 value, PCP and other SVOCs may theoretically be detected in groundwater at the Site.

3.4.3 Grab Water Sampling

Borings DP-01 to DP-05 advanced on April 26, 2018 were converted into temporary piezometers PZ-01 to PZ-05, and borings DP-09 to DP-11 advanced on April 27, 2018 were converted in temporary piezometers PZ-06 to PZ-08. Temporary piezometers PZ-9 to PZ-16 were installed on October 16, 2018 and temporary piezometers PZ-17 to PZ-20 were installed on October 17, 2018. Depth to water measurements were collected prior to colleting grab water samples on April 28, 2018 from the temporary piezometers PZ-1 to PZ-8 (**Figure 8a**) and on October 18, 2018 from, PZ-9 to PZ-20 (**Figure 8b**). Water level measurements and well construction details are included in **Table 4** and **Appendix C**.

It was noted on April 29, 2018, that water recharge into the temporary piezometers after sampling the previous day was slow, and it would not have been possible to collect water samples if three well volumes had been purged from the temporary piezometers. Grab water samples were collected for VOC and SVOC analysis using a peristaltic pump, and after collection on April 28, 2018, were submitted to TestAmerica of Irvine, California on April 30, 2018 under chain-of-custody protocol (**Appendix D**). Grab water samples collected on October 18, 2018 were submitted to TestAmerica of Irvine, California for analysis of SVOCs on October 23, 2018. Split samples were collected by NMED from PZ-12, PZ-19, and PZ-20 and submitted to their in-house laboratory for metals analysis by EPA Method 200.8.

Seventeen VOC and/or SVOC compounds were detected in the 22 grab water samples, ranging in concentration from 2.0 to 120,000 micrograms per liter (µg/L). Of the 17 compounds detected, PCP and xylene were the only two compounds with EPA National Primary Drinking Water Regulation Maximum Contaminant Levels (MCLs). of 0.001 milligrams per liter (mg/L) and 10 mg/L, respectively. PCP exceeded the MCL in 21 samples, while xylene was not detected above the MCL.

The NMED defines PCP as a toxic pollutant (20.6.2.7.WW(35)) and has assigned a tap water cancer threshold value of 4.13E-01 (µg/L) for PCP in groundwater, equivalent to a lifetime risk of 1 per 100,000 [NMED, 2018]. PCP concentrations in the eight grab water samples collected at the site, exceeded this tap water cancer number, in some cases by several orders of magnitude.

Eight metals were detected in the three split samples collected by NMED. Uranium was detected in PZ-20 at a concentration of 0.045 mg/L, which exceeded its MCL of 0.03 mg/L (**Table 5**). No other metals exceeded their respective MCLs.

Nine PAHs including 2-chloronaphthalene, 2-methylnaphthalene, 3&4-methylnaphthalene, acenaphthene, fluoranthene, fluorene, naphthalene, phenanthrene and pyrene were detected at low concentrations, typically between 15 and 510 µg/L in six of the eight temporary piezometers (**Table 4**). These PAH compounds are commonly found in creosote [ATSDR, 2002]. Similarly, low concentrations of benzene isomers and xylenes were detected in two locations (PZ-6 and PZ-8), concentrations ranged from 2.0 to 3.9 µg /L. The absence of high concentrations of compounds associated with gasoline or diesel in soil or grab water samples collected at the Site indicates that if any leaking underground storage tanks (LUST) are present on the Site, they currently have minimal impacts on Site groundwater.

Photograph 1 High Turbidity in Grab Water Sample



PCP was the only compound detected in each of the eight temporary piezometers and was found at concentrations ranging from 35 to 120,000 µg/L. The solubility of PCP is pH-dependent and is considered practically insoluble at 8 milligrams per liter (mg/L) or 8,000 µg/L [Merck, 2001], since the melting point for PCP is 190-191°C [Merck, 2001], PCP present above the solubility limit and at ambient temperature at the Site would likely be present as a solid and not a liquid or non-aqueous phase liquid (or NAPL). The grab water samples were also collected from temporary piezometers and had not been developed because of slow recharge rates, as a result grab water samples had high turbidity levels and likely included a large amount of sediment (see Photograph 1).

The highest PCP concentration was reported in PZ-1, located adjacent to the ASTs, concentrations decreased by an order of magnitude in PZ-2 and PZ-8, the temporary piezometers with the next two highest concentrations of PCP. The other five temporary piezometers reported PCP

concentrations of between 35 µg/L in PZ-5 and 2,100 µg/L in PZ-6 (**Figure 9**). The maximum concentration of PCP reported in groundwater (120,000 µg/L in PZ-01) is approximately 6-fold higher than the maximum PCP solubility and given the solubility and melting point characteristics described above, the PCP detected at this location is likely a solid, potentially sorbed to sediment. The grab water sample collected in the pond area is within the pH-dependent solubility range and may therefore also be present as a solid or sorbed to sediment material in the pond area.

During this assessment the pond was dry, and no surface water samples could be collected.

3.5 Discussion

Based on the results obtained during the recent sampling events and the previous investigations at the Site, it would appear that historic operations of the Site as a wood treatment facility, have impacted the subsurface. Specifically, the operation of ASTs for storage of creosote and possibly PCP resulted in discharges to the surface from valves and associated piping. Creosote and PCP appear to have migrated vertically through soil to groundwater, resulting in subsurface exceedance of NMSSLs and DAF-20 values in the area of the ASTs, but has been limited in lateral extent, most likely due to low permeability soils, the low solubility of PCP and PAHs, the solid state of PCP under ambient site temperatures and the relative tendency of these contaminants to sorb to the organic fraction in soils and not migrate with groundwater. The absence of elevated R.E. values in the upper portion of the drainage swale indicate that is unlikely that creosote-related compounds have migrated in groundwater to the pond from the ASTs. Elevated concentrations of PCP in soil and grab water in the pond area could be due to two possible mechanisms:

- The use of the pond as a wastewater disposal pond during Site operations, or
- Surface water run off of discharges from the ASTs into the drainage swale and ultimately the pond.

The berm surrounding the southern and eastern extent of the pond has likely limited discharge from the pond. The types and distribution of contaminants identified at the Site are consistent with the operation of a wood treatment facility using both creosote and PCP as pesticides [Groenier and Lebow, 2006].

4. PREVIOUS REMEDIATION ACTIVITIES

At the request of NMED, the remnants of the of the three ASTs were removed from the Site in May 2019. Removal activated consisted of removing creosote solids from the ASTs and scraping stained surface soils from beneath the ASTs and placing the material in roll-off bins. The ASTs were then cut into sections and placed in a separate roll-off bin for disposal. A Corrective Action Report documenting the removal activities, and analytical results from soil samples collected below the former ASTs will be submitted to NMED under separate cover.

5. PROPOSED SAMPLING AND ANALYSIS

The potential for ongoing discharges at the Site have been abated, and the vertical and lateral extents of soil impacts from the historic operations of the Site have been adequately characterized. There remains uncertainty on the lateral extent of PCP-impacts to groundwater, based on the presences of PCP in grab water samples at the Site that exceed the NMED tap water cancer risk value; however, sediment in the grab water samples could affect PCP results in the samples. Based on these findings, we recommend additional investigation activities for the Site to include installation and sampling of groundwater monitoring wells and collection of soil samples to obtain the data necessary to characterize the dissolved phase PCP concentrations (based on low turbidity water samples) and to comply with the performance standards described in the New Mexico Water Quality Control Commission (WQCC) Regulations (20.6.3.10 NMAC). Proposed monitoring well locations are presented on **Figure 10**.

5.1 Pre-Field Activities

Geosyntec will prepare a site-specific Health and Safety Plan (HASP) in accordance with Occupational Safety & Health Administration (OSHA) requirements. The HASP will address potential health hazards at the Site, including requirements for worker protection. Boring and well installation permits will be obtained from the as necessary. At least 48 hours prior to initiating subsurface sampling, Geosyntec will mark-out the limits of the proposed borings and contact Underground Service Alert (USA) to identify the location of underground utilities. A surface geophysical survey will also be performed by a private underground utility locator at each proposed boring location to evaluate the presence of subsurface utilities and obstructions prior to commencing subsurface investigation and sampling.

5.2 Description of Field Activities

5.2.1 Install Groundwater Monitoring Wells

Four groundwater monitoring wells will be installed in the vicinity of the ASTs and Debris Piles to evaluate groundwater conditions beneath the site. The monitoring well locations will be determined based on the results of the temporary piezometer groundwater sampling results presented in the CAR and in compliance with 20.6.3.10 NMAC. One upgradient (i.e. background) and three downgradient wells will be placed relative to the ASTs and Debris Piles and estimated groundwater flow direction to monitor groundwater impacts and calculate the groundwater elevations and gradient.

Each boring will be advanced to a depth of approximately 20 feet below ground surface

(bgs) (actual depth will be approximately ten feet below first groundwater) using a hollow-stem auger drill-rig equipped with 8-inch outside-diameter hollow-stem augers. Each boring will be logged by a Geosyntec geologist. Soil conditions encountered during drilling will be described in accordance with ASTM D2488 and recorded on field boring logs. Soil samples will be collected at approximately 5-foot intervals using a split spoon sampler and submitted for laboratory analysis.

At the conclusion of drilling, each 8-inch diameter soil boring will be converted into a monitoring well by installing 2-inch diameter, schedule-40 PVC well casing with 10 feet of 0.010-inch factory-slotted well screen and a threaded well cap at the bottom of each well, with the bottom of the screen placed at a depth of 5 to 7 feet below the water table at the time of installation. After casing installation, a filter pack consisting of #2/12 Lapis Lustre sand will be installed to a depth approximately 2 feet above the top of the screen in each well. Following placement of the filter pack, the well casing will be surged across the screened interval to settle the filter pack material prior to placement of a bentonite seal. A bentonite seal consisting of at least 3 feet of bentonite chips will be placed above the filter pack to an approximate depth of 3 feet bgs, hydrated with potable water, and allowed to stand for a minimum of 30 minutes prior to completing the surface seal. A concrete surface seal will be placed in the upper 3 feet of annular space in each well into which a 12-inch diameter above ground steel well-vault will be set. Following well construction, the top of casing elevation and location will be surveyed by a licensed surveyor in the state of New Mexico.

5.2.2 Well Development

Following a minimum of 48 hours after well installation, the groundwater monitoring wells will be developed by surging each well with a surge block followed by bailing and pumping until the water is relatively free of sand and suspended sediment and a minimum of three borehole volumes of water have been removed. Field parameters (pH, conductivity, turbidity, and temperature) will be monitored and recorded during development to verify stabilization of water quality parameters.

5.2.3 Perform Quarterly Groundwater Monitoring

Four quarterly groundwater monitoring events will be performed on each of the monitoring wells to evaluate groundwater impacts and seasonal trends in groundwater elevations at the site. Prior to sampling, depth to liquid levels in the groundwater monitoring wells will be measured using an electronic meter. Monitoring wells will be purged and sampled using low-flow purging methods in accordance with ASTM D6771-02.

5.3 Investigative-Derived Waste

Soil cuttings and decontamination water will be stored on-site in 55-gallon drums pending receipt of laboratory analytical results. One composite sample from the investigative derived waste (IDW) will be collected for analysis of chemical of concern (COCs). Pending the receipt of analytical results, proper disposal of the IDW will be evaluated. Disposal of IDW will be the responsibility of the MJF, with coordination assistance provided by Geosyntec. Geosyntec will assist in the characterization and disposal of IDW but cannot sign manifests for waste disposal (hazardous or non-hazardous) or select the transporter or disposal facility if the IDW is classified as hazardous waste.

5.4 Laboratory Analysis

Based on historical activities conducted at the site, the target COCs are SVOCs. Groundwater samples will be collected from each of the four proposed groundwater monitor wells during four quarterly groundwater monitoring events. Soil and groundwater samples will be analyzed for SVOCs by EPA Method 8270B.

5.5 Sample Handling

The following sections detail methods that will be used for sample labeling, identification, containerizing, preservation, transportation, and maintaining proper chain of custody. Soil and groundwater samples will be handled in accordance with standard EPA sampling protocol.

5.5.1 Sample Labeling and Identification

Each soil and groundwater sample collected for analyses will be designated with a unique identification number. The sample identification number will include information to identify the sample location and the depth of the sample, if applicable. For example, a soil sample collected from MW-1 at 13 feet bgs would be designated as MW-1-13.

5.5.2 Sample Transportation

Sample containers will be labeled, sealed in plastic bags, stored on ice, and transported in a cooler to the laboratory under chain-of-custody procedures.

5.5.3 Chain of Custody

A chain-of-custody form will be used to record possession of the samples from the time of collection to arrival at the laboratory. The samples will be released to the laboratory by signature to the chain-of custody form. The laboratory control officer will verify all samples listed on the chain-of custody form are present; verify sample integrity; and that

proper sample preservation procedures are utilized.

5.6 Field Quality Assurance/Quality Control

Quality Assurance/Quality Control (QA/QC) for fieldwork refers to methods to check the quality of the field techniques. Drilling, sampling, and field record keeping will be conducted in accordance with standard EPA sampling protocol and Geosyntec's standard operating procedures for soil and groundwater sampling. Field instrumentation will be calibrated in accordance with the manufacturer's instructions at the beginning of each field day.

In addition to the primary samples, the following QA/QC samples will be collected:

- **Trip Blank**. A trip blank, provided by the laboratory, will be used to evaluate whether VOC contamination occurred during sample transport or storage. A trip blank consists of a deionized water sample or an evacuated Summa canister transported to the field by sampling personnel, shipped along with the samples to the laboratory, and analyzed for the same VOCs as the samples. One trip blank will be analyzed with each sample shipment to the laboratory.
- **Field Blank**. A field blank, consisting of deionized water transferred from its original container to a sample container in the field, will be collected to evaluate the potential for airborne VOCs to impact groundwater samples during sample collection. One field blank will be collected during each day of groundwater sampling. The location where the field blank was collected will be noted on the sampling logs.
- **Equipment Rinsate Blank**. Equipment rinsate blanks, consisting of deionized water poured over decontaminated sampling equipment (hand augers, soil coring barrels, trowels, drive samplers, non-dedicated pumps, and other reusable sampling devices) and into appropriate sample containers, will be collected to evaluate the potential for contaminants in samples resulting from inadequate decontamination. One equipment rinsate blank for each type of reusable sampling device will be collected during each day of field operations.

5.7 Equipment Decontamination

Prior to sampling, re-usable sampling equipment will be decontaminated using an Alconox wash, followed by a potable water rinse, followed by a distilled water final rinse (the 3-bucket wash method).

5.8 Reporting

Following completion of the field investigation, a report will be prepared in accordance

with the guidelines described in 20.6.3.10 NMAC. The report will include the following information:

- A summary of site information including, site history, and figures displaying site characteristics;
- A detailed description of site geology, hydrology and hydrogeology;
- Figures showing the delineation of contamination;
- Exposure concerns;
- An explanation of field activities including drilling, sampling and site safety procedures;
- A summary of the investigation, conclusions, and recommendations for remedial alternatives; and
- Appendices with boring logs, permits, laboratory data and chain of custody documentation.

To achieve the project objectives, the report will also include a human health risk assessment and an evaluation of potential remediation alternatives. The risk assessment will include data review and evaluation, exposure assessment, toxicity assessment, and risk characterization to assess potential risk for residential and commercial land use scenarios. Potential remedial alternatives for the site will be based on the site's anticipated future use.

5.9 Schedule of Proposed Work

Following receipt of direction to proceed from the NMED, the field investigation will be completed within approximately 90 days. A report will be prepared approximately 90 following completion of the field investigation.

6. PROPOSED REMEDIATION ACTIVITIES

The purpose of this Work Plan is to present an additional Site investigation designed to obtain data to further characterize groundwater and soil conditions at the Site, with specific reference to the target analytes at the Site, and to provide information for the selection of applicable remedial actions to abate potential discharges that may have occurred. Data obtained will be evaluated along with the existing dataset to inform recommendations for additional remedial activities for the Site; which, if warranted, will be presented in a Final Voluntary Remediation Work Plan.

7. REFERENCES

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TABLES

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Table 1. Shallow Soil TPH Sampling
Phase II Site Characterization
Angel Fire LLC, Angel Fire, New Mexico

SAMPLE ID	TPH PetroFlag (ppm)	SAMPLE ID	TPH PetroFlag (ppm)
AF01	1748	AF19	483
AF02	906	AF20	288
AF03	50	AF21	Not Analyzed
AF04	2392	AF22	226
AF05	ARL	AF23	74
AF06	398	AF24	274
AF07	2283	AF25	782
AF08	2580	AF26	520
AF09	1174	AF27	1427
AF10	1232	AF28	1463
AF11	2093	AF29	1382
AF12	982	AF30	403
AF13	1594	AF31	ARL
AF14	1130	AF32	ARL
AF15	1473	AF33	Not Analyzed
AF16	1183	AF34	1084
AF17	734	AF35	577
AF18	1527	AF36	Not Analyzed

Notes

ppm parts per million

PetroFlag Samples Collected December 5-6, 2017

ARL Above reporting limit

TPH Total Petroleum Hydrocarbon

Geosyntec consultants

Table 2. Detected Volatile Organic Compounds in Soil and NMED SSL
Phase II Site Characterization
Angel Fire LLC, Angel Fire, New Mexico

SAMPLE ID	DATE COLLECTED	TPH PetroFlag (ppm)	VOLATILE ORGANIC COMPOUNDS (ug/kg)								
			1,2,4-TMB	1,3,5-TMB	Ethylbenzene	Isopropylbenzene	Naphthalene	*n* -Butylbenzene	N-Propylbenzene	sec-Butylbenzene	p-Isopropyltoluene
NMSSL - residential soil cancer			--	--	74500	--	--	--	--	--	--
NMSSL - residential soil non-cancer			--	--	3920000		1160000	--	--	--	--
NMSSL - Industrial/Occupational soil cancer			--	--	365000	--	2890000000	--	--	--	--
NMSSL - Industrial/Occupational soil non-cancer			--	--	28800000	--	25700000	--	--	--	--
DP-1-13'	4/26/2018	1640	160	170	ND	ND	620	38	11	ND	26
DP-2-14'	4/26/2018	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-3-7'	4/26/2018	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-4-6'	4/26/2018	1763	37	40	ND	ND	ND	ND	ND	ND	5.6
DP-5-11'	4/26/2018	111	ND	ND	ND	28	ND	54	48	47	ND
DP-6-12'	4/26/2018	166	27	ND	ND	9.3	16	ND	16	53	23
DP-7-10'	4/26/2018	539	220	390	290	200	ND	440	510	220	160
DP-8-14'	4/26/2018	88	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-9-12'	4/27/2018	602	16	ND	ND	ND	ND	31	12	27	12
DP-10-20'	4/27/2018	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-11-5'	4/27/2018	1487	ND	ND	ND	ND	110000	ND	ND	ND	ND
DP-12-4'	4/27/2018	21	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-13-10'	4/27/2018	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-14-6'	4/27/2018	539	ND	ND	ND	ND	68000	ND	ND	ND	ND
DP-15-7	4/27/2018	1626	ND	ND	ND	ND	13000	ND	ND	ND	ND
DP-16-8'	4/27/2018	0	ND	ND	ND	ND	380	ND	ND	ND	ND
DP-17-8'	4/27/2018	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-18-4'	4/28/2018	49	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-19-5'	4/28/2018	6	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-20-4'	4/28/2018	18	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes

ppm parts per million
ug/kg micrograms per kilogram
NMSSL New Mexico Soil Screening Level
Results depicted in **bold** exceed a NMSSL
1,2,4-TMB 1,2,4-Trimethylbenzene
1,3,5-TMB 1,3,5-Trimethylbenzene

Table 3. Detected Semi-Volatile Organic Compounds and Metals in Soil and NMED SSL
Phase II Site Characterization
Angel Fire LLC, Angel Fire, New Mexico

SAMPLE ID	DATE COLLECTED	TPH PetroFlag (ppm)	SEMI-VOLATILE ORGANIC COMPOUNDS (ug/kg)												
			1-MNap	2-Mnap	Acenaphthene	Anthracene	Benzo(a)anthracene	Chrysene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	PCP	Phenanthrene	Pyrene
NMSSL - residential soil cancer			--	--	--	--	1530	153000	--	--	--	--	9850	--	--
NMSSL - residential soil non-cancer			--	232000	3480000	17400000	--	--	--	2320000	2320000	1160000	234000	1740000	1740000
NMSSL - Industrial/Occupational soil cancer			--	--	--	--	32300	3230000	--	--	--	--	44500	--	--
NMSSL - Industrial/Occupational soil non-cancer			--	3370000	50500000	253000000	--	--	--	33700000	33700000	16800000	3180000	25300000	25300000
DP-1-13'	4/26/2018	1640	ND	ND	41000	ND	ND	ND	26000	56000	36000	ND	**85000**	100000	41000
DP-2-14'	4/26/2018	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-3-7'	4/26/2018	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-4-6'	4/26/2018	1763	ND	ND	ND	ND	ND	ND	25000	23000	23000	ND	**320000**	60000	17000
DP-5-11'	4/26/2018	111	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-6-12'	4/26/2018	166	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-7-10'	4/26/2018	539	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-8-14'	4/26/2018	88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-9-12'	4/27/2018	602	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-10-20'	4/27/2018	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-11-5'	4/27/2018	1487	20000	34000	23000	ND	ND	ND	16000	26000	21000	59000	ND	55000	17000
DP-12-4'	4/27/2018	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-13-10'	4/27/2018	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-14-6'	4/27/2018	539	29000	48000	29000	10000	ND	ND	20000	28000	25000	44000	ND	64000	18000
DP-15-7	4/27/2018	1626	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-16-8'	4/27/2018	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-17-8'	4/27/2018	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DP-18-4'	4/28/2018	49	1800	3300	2600	720	450	440	1700	2700	2200	5100	820	5400	2000
DP-19-5'	4/28/2018	6	390	690	520	ND	ND	ND	390	540	470	1100	ND	1300	420
DP-20-4'	4/28/2018	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-12-7'	10/16/2018	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PZ-19-10'	10/17/2018	--	5700	ND	5900	ND	ND	ND	4200	3300	5500	ND	ND	15000	ND
PZ-20-7'	10/17/2018	--	6400	9500	3900	ND	ND	ND	3600	4200	4100	4100	7600	12000	2900

Notes

ppm	parts per million
ug/kg	micrograms per kilogram
NMSSL	New Mexico Soil Screening Level

Results depicted in **bold** exceed a NMSSL

1-MNap	1-Methylnaphthalene
2-MNap	2-Methylnaphthalene
PCP	Pentachlorophenol

Table 3. Detected Semi-Volatile Organic Compounds and Metals in Soil and NMED SSL
Phase II Site Characterization
Angel Fire LLC, Angel Fire, New Mexico

SAMPLE ID	DATE COLLECTED	TPH PetroFlag (ppm)	METALS (mg/kg)										
			Arsenic	Barium	Beryllium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Vanadium	Zinc
NMSSL - residential soil cancer			7.07	--	64400	96.6	17200	--	--	--	595000	--	--
NMSSL - residential soil non-cancer			13.0	15600	156	45200	23.4	3130	--	23.8	1560	394	23500
NMSSL - Industrial/Occupational soil cancer			35.9	--	313000	505	83400	--	--	--	2890000	--	--
NMSSL - Industrial/Occupational soil non-cancer			208	255000	2580	314000	388	51900	--	112	25700	6530	389000
DP-1-13'	4/26/2018	1640	--	--	--	--	--	--	--	--	--	--	--
DP-2-14'	4/26/2018	13	--	--	--	--	--	--	--	--	--	--	--
DP-3-7'	4/26/2018	0	--	--	--	--	--	--	--	--	--	--	--
DP-4-6'	4/26/2018	1763	--	--	--	--	--	--	--	--	--	--	--
DP-5-11'	4/26/2018	111	--	--	--	--	--	--	--	--	--	--	--
DP-6-12'	4/26/2018	166	--	--	--	--	--	--	--	--	--	--	--
DP-7-10'	4/26/2018	539	--	--	--	--	--	--	--	--	--	--	--
DP-8-14'	4/26/2018	88	--	--	--	--	--	--	--	--	--	--	--
DP-9-12'	4/27/2018	602	--	--	--	--	--	--	--	--	--	--	--
DP-10-20'	4/27/2018	0	--	--	--	--	--	--	--	--	--	--	--
DP-11-5'	4/27/2018	1487	--	--	--	--	--	--	--	--	--	--	--
DP-12-4'	4/27/2018	21	--	--	--	--	--	--	--	--	--	--	--
DP-13-10'	4/27/2018	14	--	--	--	--	--	--	--	--	--	--	--
DP-14-6'	4/27/2018	539	--	--	--	--	--	--	--	--	--	--	--
DP-15-7	4/27/2018	1626	--	--	--	--	--	--	--	--	--	--	--
DP-16-8'	4/27/2018	0	--	--	--	--	--	--	--	--	--	--	--
DP-17-8'	4/27/2018	0	--	--	--	--	--	--	--	--	--	--	--
DP-18-4'	4/28/2018	49	--	--	--	--	--	--	--	--	--	--	--
DP-19-5'	4/28/2018	6	--	--	--	--	--	--	--	--	--	--	--
DP-20-4'	4/28/2018	18	--	--	--	--	--	--	--	--	--	--	--
PZ-12-7'	10/16/2018	--	ND	87	0.73	31	9.6	26	8.6	0.034	16	41	50
PZ-19-10'	10/17/2018	--	ND	55	ND	9.6	3.8	9.1	2.7	0.093	5.6	18	16
PZ-20-7'	10/17/2018	--	3.1	120	ND	26	6.3	18	5.8	0.22	11	44	36

Notes

ppm	parts per million
ug/kg	micrograms per kilogram
NMSSL	New Mexico Soil Screening Level
Results depicted in **bold** exceed a NMSSL	
1-MNap	1-Methylnaphthalene
2-MNap	2-Methylnaphthalene
PCP	Pentachlorophenol

Geosyntec consultants

Table 4. Detected Volatile and Semi-Volatile Organic Compounds in Groundwater
Phase II Site Characterization
Angel Fire LLC, Angel Fire, New Mexico

SAMPLE ID	DATE COLLECTED	SCREEN INTERVAL (ft bgs)	WATER LEVEL (ft bgs)	VOLATILE and SEMI-VOLATILE ORGANIC COMPOUNDS (ug/L)									
				1,2,4-TMB	Isopropylbenzene	*m, p* -Xylene	Xylenes total	Naphthalene	N-Propylbenzene	2-ClNaph	2-MNaph	3-MNap + 4-MNap	Acenaphthene
Maximum Contaminant Level (MCL)				--	--	10,000	10,000	--	--	--	--	--	--
PZ-1	4/28/2018	6-16	11.145	ND	ND	ND	ND	ND	ND	ND	ND	ND	360
PZ-2	4/28/2018	10-20	13.417	ND	ND	ND	ND	33	ND	ND	ND	ND	28
PZ-3	4/28/2018	10-20	11.227	ND	ND	ND	ND		ND	ND	ND	ND	ND
PZ-4	4/28/2018	10-20	10.415	ND	ND	ND	ND	7.1	ND	ND	ND	ND	ND
PZ-5	4/28/2018	10-20	12.457	ND	ND	ND	ND		ND	ND	ND	ND	ND
PZ-6	4/28/2018	8-18	10.200	3.9	2.0	ND	ND	ND	2.9	ND	30	ND	ND
PZ-7	4/28/2018	5-20	6.305	ND	ND	ND	ND	ND	ND	15	ND	ND	ND
PZ-8	4/28/2018	3-13	4.347	ND	ND	2.0	2.0	290	ND	ND	ND	40	56
PZ-9	10/18/2018	10-20	16.67	--	--	--	--	--	--	ND	ND	ND	ND
PZ-10	10/18/2018	10-20	14.05	--	--	--	--	--	--	ND	ND	ND	ND
PZ-11	10/18/2018	5-20	7.2	--	--	--	--	--	--	ND	14	ND	14
PZ-12	10/18/2018	5-20	7.83	--	--	--	--	--	--	ND	ND	ND	ND
PZ-12 DUP	10/18/2018	5-20	7.83	--	--	--	--	--	--	ND	ND	ND	ND
PZ-13	10/18/2018	5-20	8.67	--	--	--	--	--	--	ND	ND	ND	ND
PZ-14	10/18/2018	10-20	12.38	--	--	--	--	--	--	ND	ND	ND	ND
PZ-15	10/18/2018	10-20	11.92	--	--	--	--	--	--	ND	ND	ND	ND
PZ-16	10/18/2018	10-20	12.81	--	--	--	--	--	--	ND	ND	ND	ND
PZ-17	10/18/2018	10-20	14.96	--	--	--	--	--	--	ND	ND	ND	ND
PZ-18	10/18/2018	9-19	15.71	--	--	--	--	--	--	ND	ND	ND	ND
PZ-19	10/18/2018	10-20	9.91	--	--	--	--	--	--	ND	ND	ND	ND
PZ-19 DUP	10/18/2018	10-20	9.91	--	--	--	--	--	--	ND	ND	ND	ND
PZ-20	10/18/2018	9-14	4.42	--	--	--	--	--	--	ND	ND	ND	ND

Notes

ft	feet
bgs	below ground surface
ug/L	micrograms per liter
mg/L	milligrams per liter
3-MNap + 4-MNap	3-Methylnaphthalene + 4-Methylnaphthalene
1,2,4-TMB	1,2,4-Trimethylbenzene
2-ClNaph	2-Chloronaphthalene
2-MNaph	2-Methylnaphthalene

Results depicted in **bold** exceed their respective MCL

Solubility of PCP approximately 8 mg/l, PCP in gw detected at 35 to 120000 ug/l or 120 mg/l. PCP detected in PZ-1 at greater than 10 x solubility limit, PZ-2 and PZ-8 likely at the lowet end of solubility limit.

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Table 4. Detected Volatile and Semi-Volatile Organic Compounds in Groundwater
Phase II Site Characterization
Angel Fire LLC, Angel Fire, New Mexico

SAMPLE ID	DATE COLLECTED	SCREEN INTERVAL (ft	WATER LEVEL (ft bgs)	VOLATILE and SEMI-VOLATILE ORGANIC COMPOUNDS (ug/L)						
				Dibenzofuran	Fluoranthene	Fluorene	Naphthalene	Pentachlorophenol	Phenanthrene	Pyrene
Maximum Contaminant Level (MCL)				--	--	--	--	1	--	--
PZ-1	4/28/2018	6-16	11.145	ND	260	230	ND	**120000**	510	ND
PZ-2	4/28/2018	10-20	13.417	ND	ND	ND	19	**11000**	17	ND
PZ-3	4/28/2018	10-20	11.227	ND	ND	ND	ND	**230**	ND	ND
PZ-4	4/28/2018	10-20	10.415	ND	ND	ND	ND	**1300**	ND	ND
PZ-5	4/28/2018	10-20	12.457	ND	ND	ND	ND	**35**	ND	ND
PZ-6	4/28/2018	8-18	10.200	ND	ND	ND	ND	**2100**	ND	ND
PZ-7	4/28/2018	5-20	6.305	ND	ND	ND	ND	**1000**	ND	ND
PZ-8	4/28/2018	3-13	4.347	ND	130		190	**11000**	ND	82
PZ-9	10/18/2018	10-20	16.67	ND	ND	ND	ND	ND	ND	ND
PZ-10	10/18/2018	10-20	14.05	ND	ND	ND	ND	**1100**	ND	ND
PZ-11	10/18/2018	5-20	7.2	14	ND	11	ND	**460**	ND	ND
PZ-12	10/18/2018	5-20	7.83	ND	ND	ND	ND	**3000**	ND	ND
PZ-12 DUP	10/18/2018	5-20	7.83	ND	ND	ND	ND	**3000**	ND	ND
PZ-13	10/18/2018	5-20	8.67	ND	ND	ND	ND	**3400**	ND	ND
PZ-14	10/18/2018	10-20	12.38	ND	ND	ND	ND	**ND**	ND	ND
PZ-15	10/18/2018	10-20	11.92	ND	ND	ND	ND	**ND**	ND	ND
PZ-16	10/18/2018	10-20	12.81	ND	ND	ND	ND	**ND**	ND	ND
PZ-17	10/18/2018	10-20	14.96	ND	ND	ND	ND	**ND**	ND	ND
PZ-18	10/18/2018	9-19	15.71	ND	ND	ND	ND	**ND**	ND	ND
PZ-19	10/18/2018	10-20	9.91	ND	ND	ND	ND	**1100**	ND	ND
PZ-19 DUP	10/18/2018	10-20	9.91	59	ND	ND	150	**920**	69	ND
PZ-20	10/18/2018	9-14	4.42	ND	ND	ND	ND	**9200**	ND	ND

Notes

ft	feet
bgs	below ground surface
ug/L	micrograms per liter
mg/L	milligrams per liter
3-MNap + 4-MNap	3-Methylnaphthalene + 4-Methylnaphthalene
1,2,4-TMB	1,2,4-Trimethylbenzene
2-ClNaph	2-Chloronaphthalene
2-MNaph	2-Methylnaphthalene

Results depicted in **bold** exceed their respective MCL

Solubility of PCP approximately 8 mg/l, PCP in gw detected at 35 to 120000 ug/l or 120 mg/l. PCP detected in PZ-1 at greater than 10 x solubility limit, PZ-2 and PZ-8 likely at the lowet end of solubility limit.

Table 5. Detected Metals in Groundwater
Phase II Site Characterization
Angel Fire LLC, Angel Fire, New Mexico

SAMPLE ID	DATE COLLECTED	SCREEN INTERVAL (ft bgs)	WATER LEVEL (ft bgs)	METALS (mg/L)							
				Aluminum	Arsenic	Barium	Cobalt	Manganese	Molybdenum	Uranium	Vanadium
Maximum Contaminant Level (MCL)				--	0.010	2	--	--	--	0.03	--
PZ-12	10/18/2018	5-20	7.83	0.03	ND	0.05	0.005	1.7	0.007	0.017	0.002
PZ-19	10/18/2018	10-20	9.91	ND	0.003	0.11	0.004	3.1	0.004	0.005	0.002
PZ-20	10/18/2018	9-14	4.42	0.02	0.001	0.04	0.002	0.55	0.017	**0.045**	0.003

Notes
ft feet
bgs below ground surface
mg/L milligrams per liter
Results depicted in **bold** exceed their respective MCL

FIGURES



Legend

Site Location

N

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Site Location Map

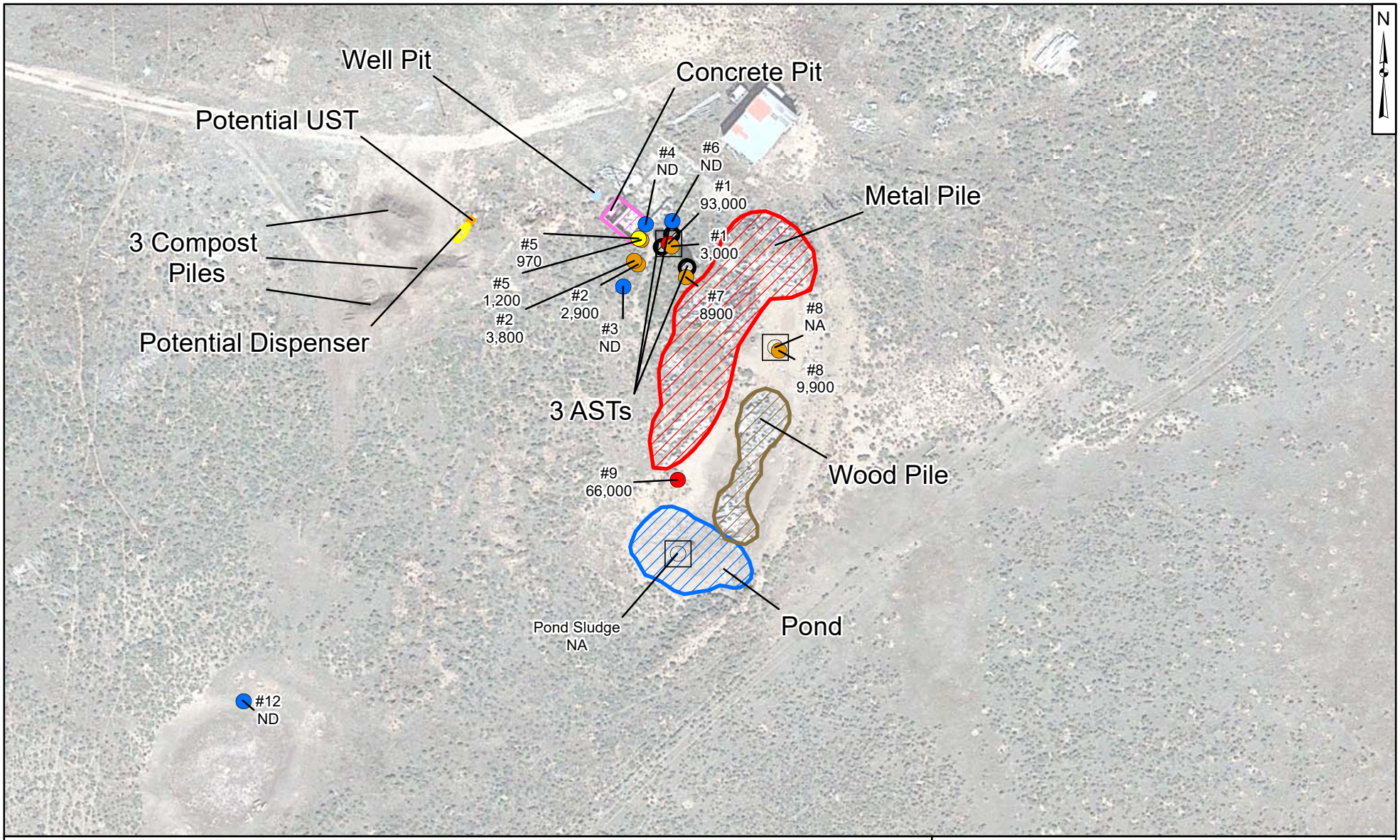
Angel Fire LLC
Angel Fire, New Mexico

Geosyntec consultants

HG1622 | June 2019

Figure 1

P:\CAD_GIS\Projects\HY1622_Angel Fire\MXDs\Figure 1 Site Location Map.mxd 5/31/2019 12:37:55 PM



Legend

Total Petroleum Hydrocarbons (TPH)

- Not Analyzed (NA)
- Non-Detect (ND)
- 0 - 100 mg/kg
- >100 - 1,000 mg/kg
- >1,000 - 10,000 mg/kg
- >10,000 - 100,000 mg/kg

Notes

-Data obtained from Moraine 1996, Investigative Activities and Findings.
-Three offsite sampling locations could not be accurately located.
The Total Petroleum Hydrocarbons (TPH) (reported as diesel) are as follows:
#10 17 mg/kg
#11 ND
#12 ND

-Box outlining location indicates additional analytes were analyzed.
-mg/kg: milligrams per kilogram
-UST: Underground Storage Tank
-AST: Aboveground Storage Tank

0 50 100 Feet

Moraine 1996 Investigation

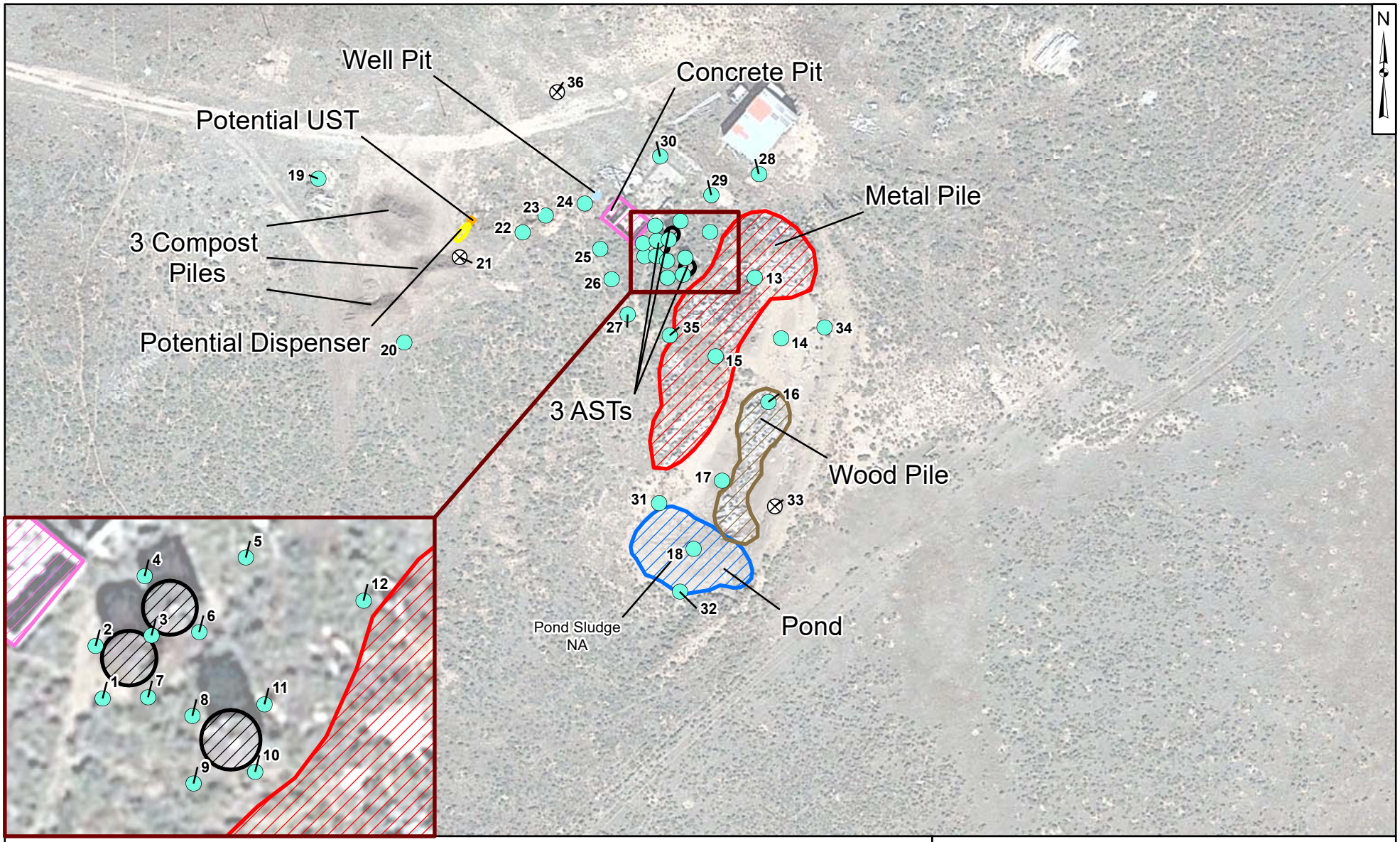
Angel Fire LLC
Angel Fire, New Mexico

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Figure 2

SantaBarbara-01\P:\GIS\HY1622\Projects\2019 VRP Workplan\Fig02_Previous_Investigations.mxd 6/14/2019 (Author: SAntonelli) 2:39:24 PM



Legend

- Surface Soil Sample Location
- Surface Soil Sample Location - not sampled

Notes

-Petroflag sample locations 1-36 collected December 5-6, 2017.
-mg/kg: milligrams per kilogram
-UST: Underground Storage Tank
-AST: Aboveground Storage Tank

0 50 100 Feet

Surface Sampling Locations

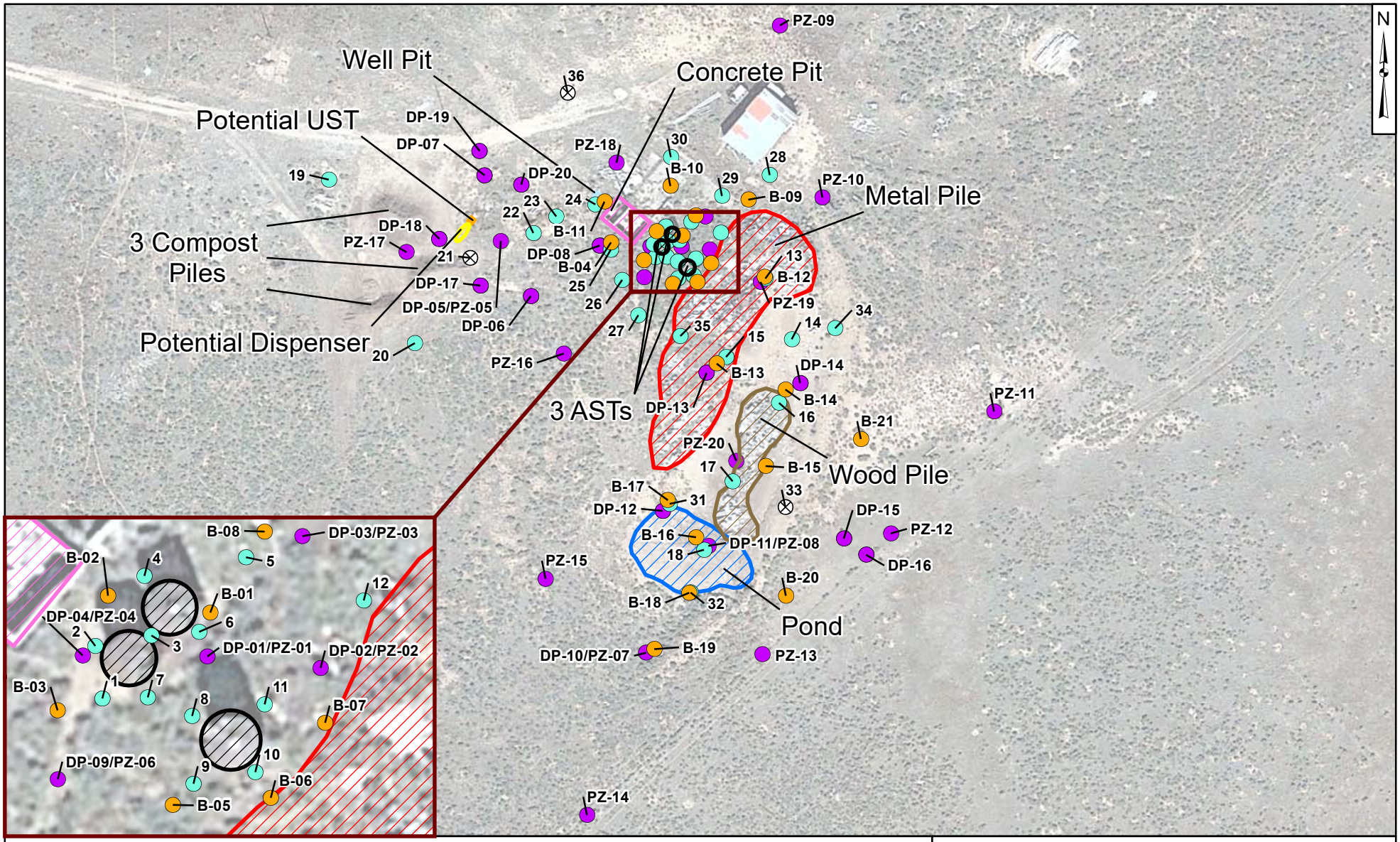
Angel Fire LLC
Angel Fire, New Mexico

Geosyntec consultants

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Figure 3

SantaBarbara-01\P:\GIS\HY1622\Projects\2019 VRP Workplan\Fig03_Surface_Soil_Sampling.mxd 6/14/2019 (Author: SAntonelli) 2:39:39 PM



Legend

- Surface Soil Sample Location
- Surface Soil Sample Location - not sampled
- LIF-TarGOST Sample Location
- Direct Push / Temporary Piezometer Location

Notes

-mg/kg: milligrams per kilogram
-UST: Underground Storage Tank
-AST: Aboveground Storage Tank

0 50 100 Feet

Soil and Grab Water Sampling Locations

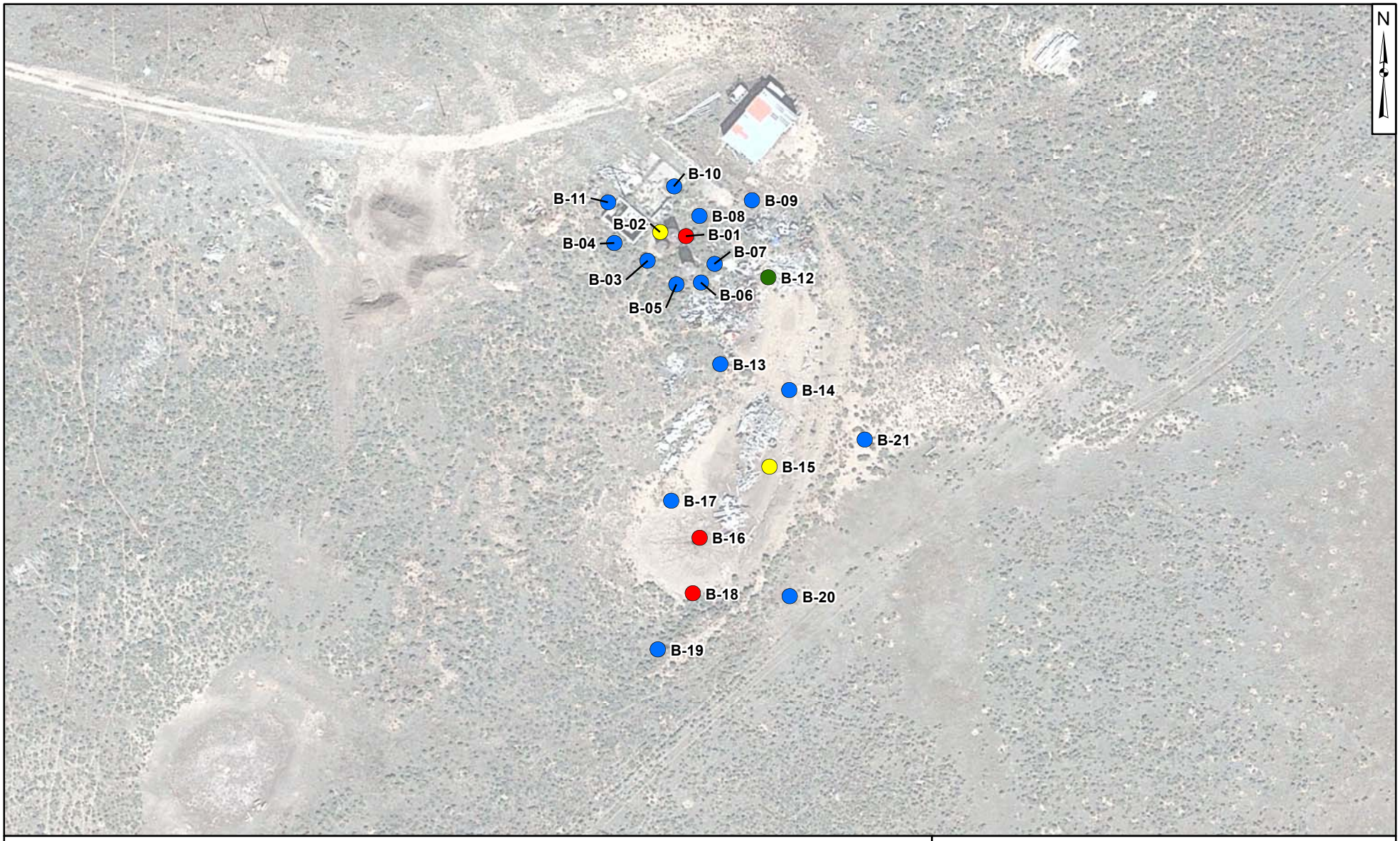
Angel Fire LLC
Angel Fire, New Mexico

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Figure 4

SantaBarbara-01\P:\GIS\HY1622\Projects\2019 VRP Workplan\Fig04_Soil_Sample_Locations.mxd 6/14/2019 (Author: SAntonelli) 2:39:56 PM



Legend

- ≤ 50 % Reference Emitter
- 50 - 100 % Reference Emitter
- 100 - 250 % Reference Emitter
- > 250 % Reference Emitter

0 50 100 Feet

LIF-TarGOST Sampling

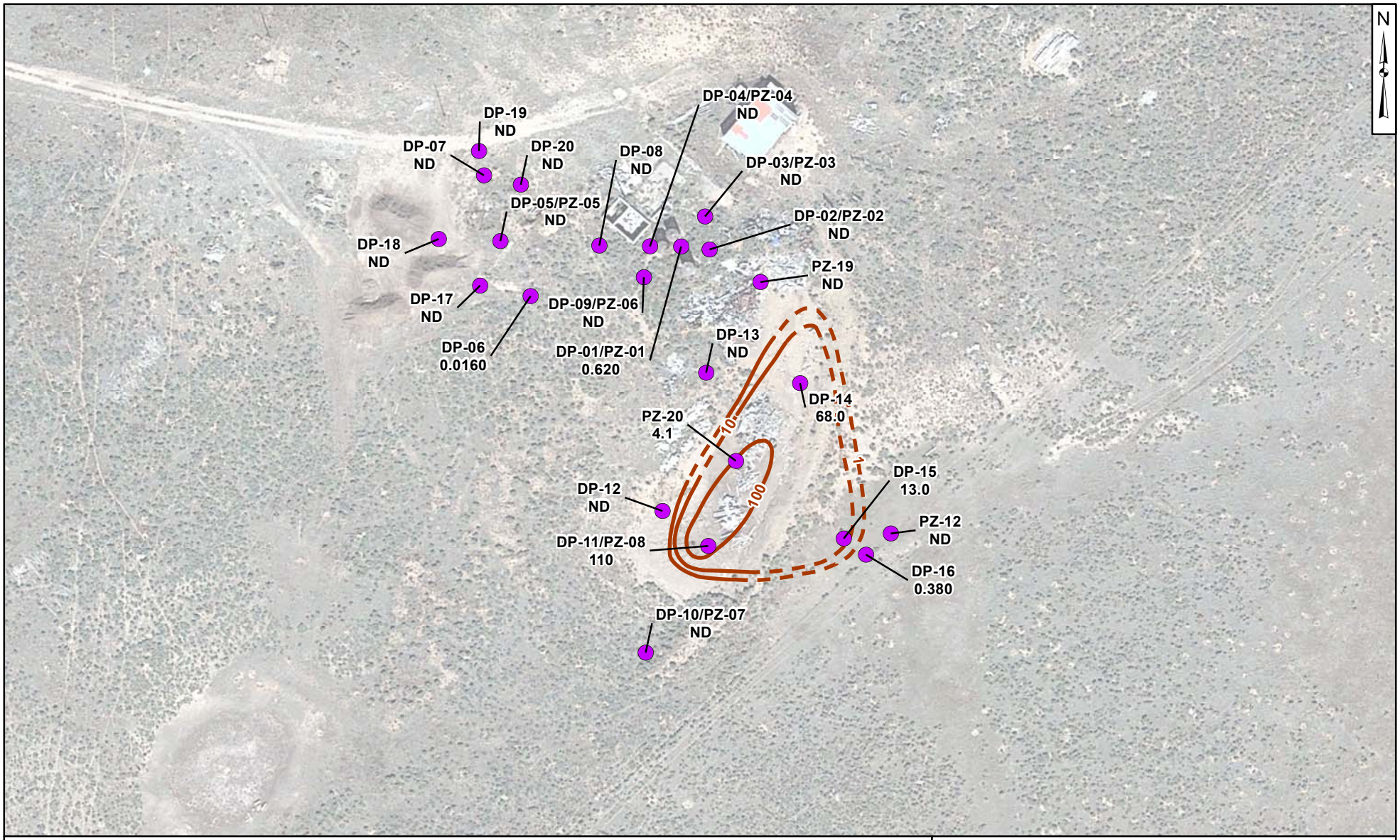
Angel Fire LLC
Angel Fire, New Mexico

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Figure 5

SantaBarbara-01\P:\GIS\HY1622\Projects\2019 VRP Workplan\Fig05_LIF-TarGOST_Sampling.mxd 6/14/2019 (Author: SAntonelli) 2:40:09 PM



Legend

- Direct Push / Temporary Piezometer Location
- Naphthalene Concentration (mg/kg)
- Inferred Naphthalene Concentration (mg/kg)

Location = **DP-01/PZ-01**
Concentration (mg/kg) = **0.620**

Note
-mg/kg: milligrams per kilogram
-ND: nondetect
-Naphthalene Risk-based SSL, DAF 1 = 0.00411 mg/kg
-Naphthalene Risk-based SSL, DAF 20 = 0.0823 mg/kg

0 50 100 Feet

Naphthalene Soil Concentrations

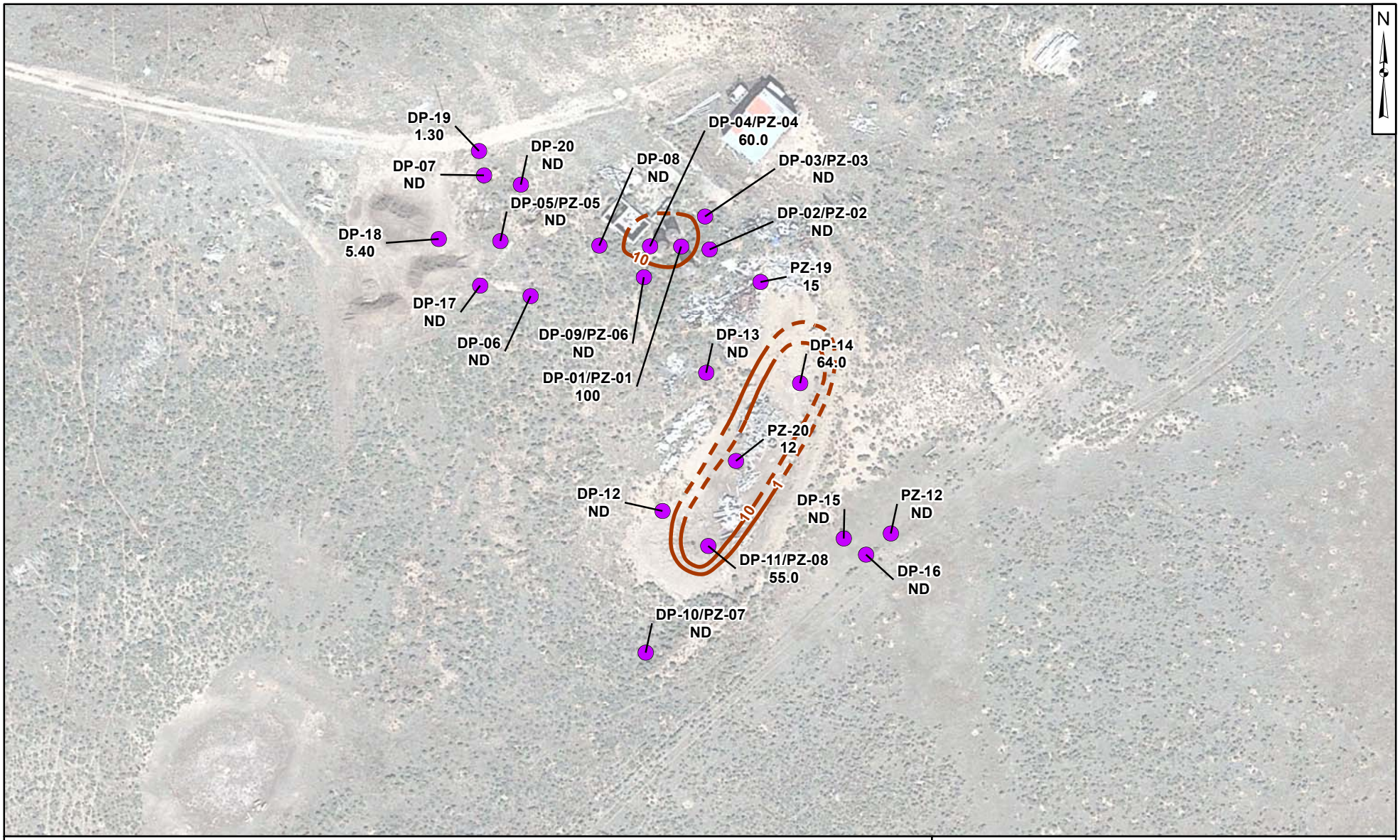
Angel Fire LLC
Angel Fire, New Mexico

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Figure 6

SantaBarbara-01\P:\GIS\HY1622\Projects\2019 VRP Workplan\Fig06_Naphthalene_Soil_Concentrations.mxd 6/14/2019 (Author: SAntonelli) 2:40:24 PM



Legend

- Direct Push / Temporary Piezometer Location
- Phenanthrene Concentration (mg/kg)
- Inferred Phenanthrene Concentration (mg/kg)

Note

-mg/kg: milligrams per kilogram
-ND: nondetect
-Phenanthrene Risk-based SSL, DAF 1 = 4.30 mg/kg
-Phenanthrene Risk-based SSL, DAF 20 = 85.9 mg/kg

Location = **DP-04/PZ-04**
Concentration (mg/kg) = **60.0**

0 50 100 Feet

Phenanthrene Soil Concentrations

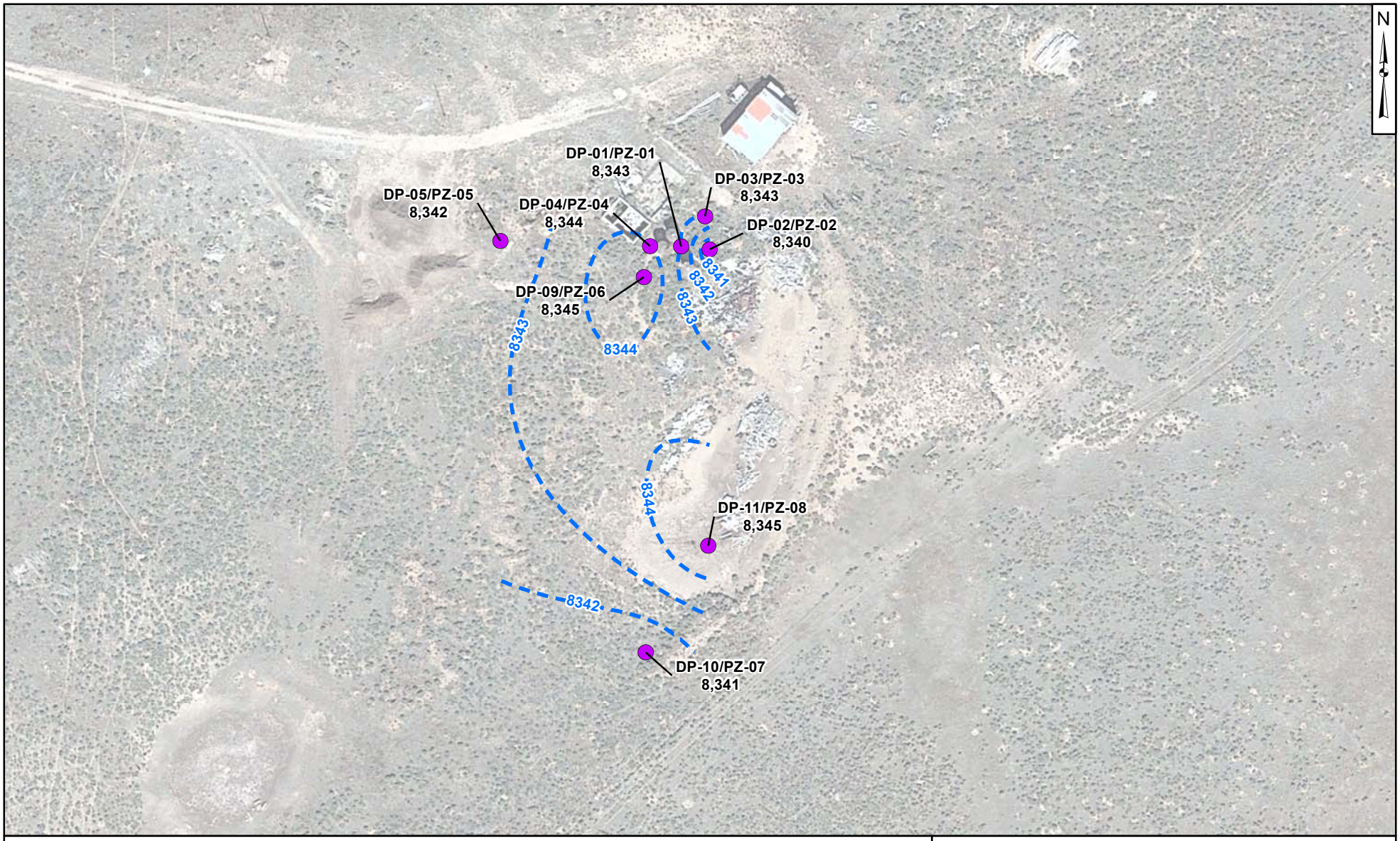
Angel Fire LLC
Angel Fire, New Mexico

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Figure 7

SantaBarbara-01\P:\GIS\HY1622\Projects\2019 VRP Workplan\Fig07_Phenanthrene_Soil_Concentrations.mxd 6/14/2019 (Author: SAntonelli) 2:40:37 PM



Legend

- Direct Push / Temporary Piezometer Location
- Groundwater Contour (ft amsl)

Note
ft amsl: feet above mean sea level

Location = **DP-04/PZ-04**
Groundwater Elevation (ft amsl) = **8,344**

0 50 100 Feet

Grab Water Elevations April 2018

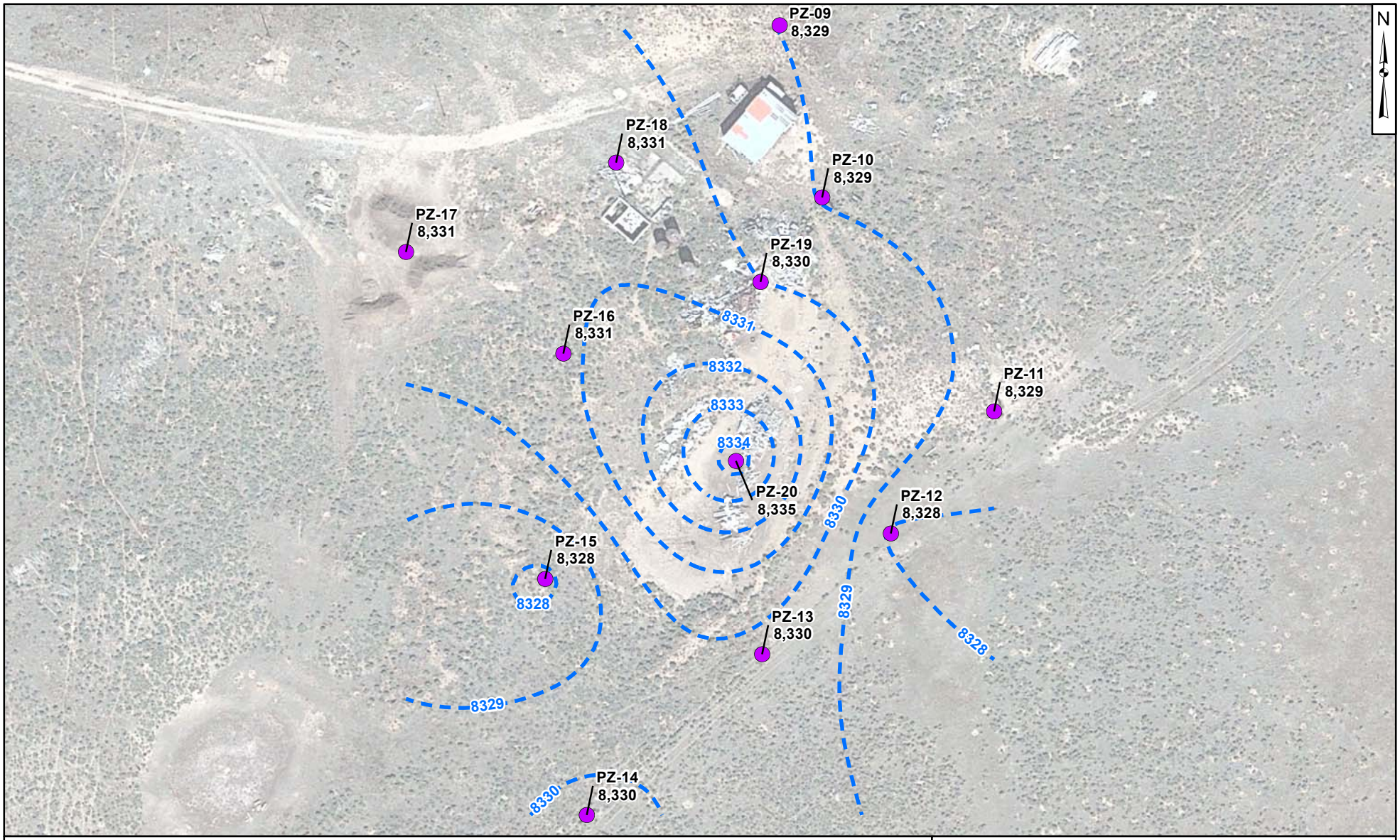
Angel Fire LLC
Angel Fire, New Mexico

Geosyntec consultants

Project No: HG1722 | June 2019

Figure 8a

SantaBarbara-01\P:\GIS\HY1622\Projects\2019 VRP Workplan\Fig08a_Grab_Water_Elevations_April2018.mxd 6/14/2019 (Author: SAntonelli) 2:40:50 PM



Legend

- Direct Push / Temporary Piezometer Location
- Groundwater Contour (ft amsl)

Note
ft amsl: feet above mean sea level

Location = **PZ-19**
Groundwater Elevation (ft amsl) = **8,330**

0 50 100 Feet

Grab Water Elevations
October 2018

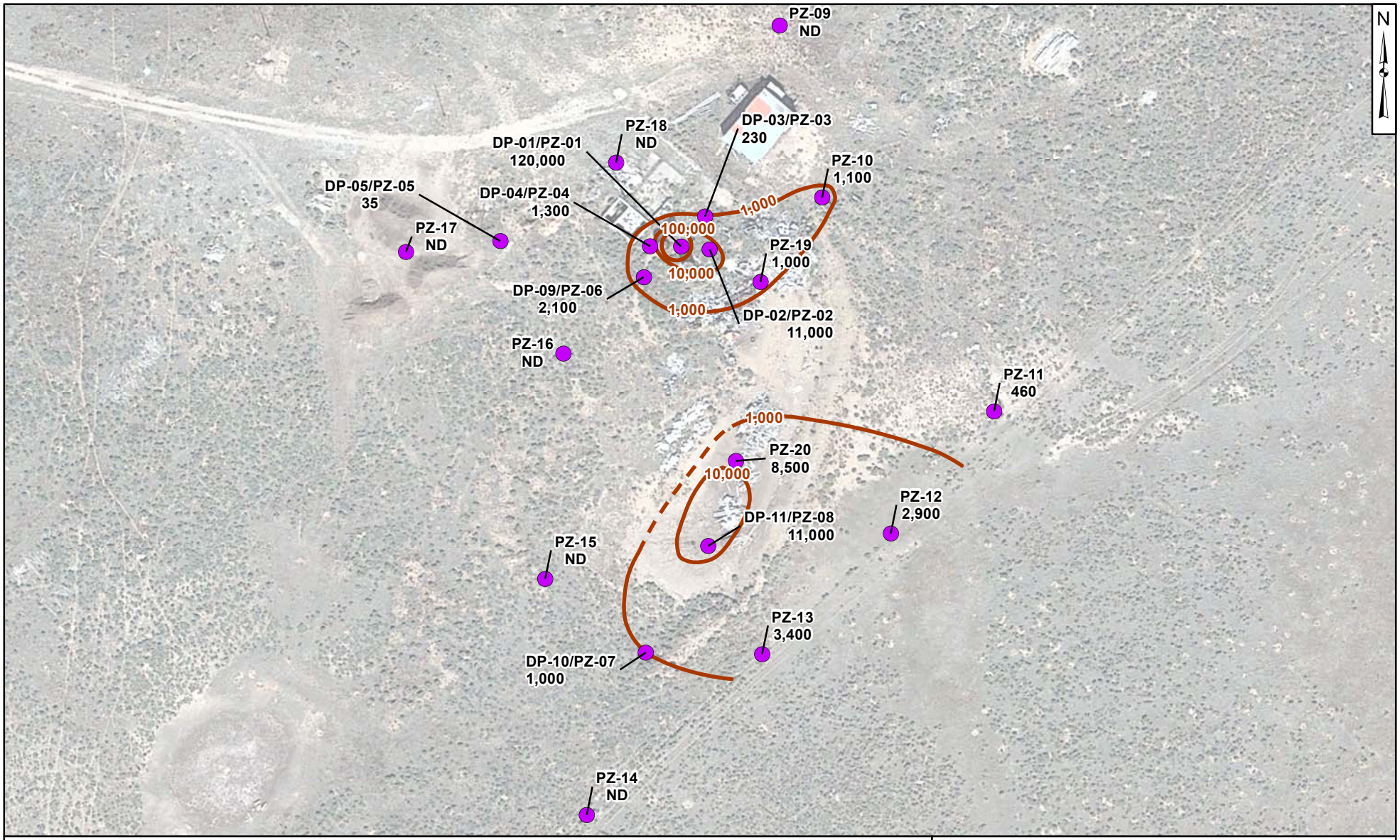
Angel Fire LLC
Angel Fire, New Mexico

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Project No: HG1722 | June 2019

Figure 8b

SantaBarbara-01\P:\GIS\HY1622\Projects\2019 VRP Workplan\Fig08b_Grab_Water_Elevations_October2018.mxd 6/14/2019 (Author: SAntonelli) 2:41:03 PM



Legend

- Direct Push / Temporary Piezometer Location
- Pentachlorophenol Concentration (µg/L)
- Inferred Pentachlorophenol Concentration (µg/L)

Location = **DP-04/PZ-04**
Concentration (µg/L) = **1,300**

Notes

-µg/L: micrograms per liter
-ND: nondetect
-Average of detections shown for duplicates
-NMED toxic pollutant lifetime risk of 1 per 100,000 value for pentachlorophenol = 0.413 µg/L (NMED, 2018)

0 50 100 Feet

Pentachlorophenol Concentrations in Grab Water Samples

Angel Fire LLC
Angel Fire, New Mexico

Geosyntec consultants

Project No: HG1722 | June 2019

Figure 9

SantaBarbara-01\P:\GIS\HY1622\Projects\2019 VRP Workplan\Fig09_Pentachlorophenol_Concentrations_GW.mxd 6/14/2019 (Author: SAntonelli) 2:41:13 PM



Legend

Proposed Groundwater Well Location

0 50 100 Feet

Proposed Groundwater Well Locations

Angel Fire LLC
Angel Fire, New Mexico

Geosyntec consultants

Project No: HG1722 | June 2019

Figure 10

SantaBarbara-01\P:\GIS\HY1622\Projects\2019 VRP Workplan\Fig10_Proposed_GW_Locs.mxd 6/14/2019 (Author: SAntonelli) 2:47:19 PM

APPENDIX A

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 27, 2017

Brett Perry

Clean Harbors
2720 Girard NE
Albuquerque, NM 87107
TEL: (505) 263-5851
FAX

RE: Geosyntec OrderNo.: 1711928

Dear Brett Perry:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/17/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,



Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Clean Harbors
Client Sample ID: Angel Fire
Project: Geosyntec
Collection Date: 11/16/2017 2:30:00 PM
Lab ID: 1711928-001
Matrix: AQUEOUS
Received Date: 11/17/2017 9:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	450	100	D	µg/L	1	11/21/2017 11:52:03 AM
Acenaphthylene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Aniline	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Anthracene	1000	100	D	µg/L	1	11/21/2017 11:52:03 AM
Azobenzene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Benz(a)anthracene	250	100	D	µg/L	1	11/21/2017 11:52:03 AM
Benzo(a)pyrene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Benzo(b)fluoranthene	120	100	D	µg/L	1	11/21/2017 11:52:03 AM
Benzo(g,h,i)perylene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Benzo(k)fluoranthene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Benzoic acid	ND	200	D	µg/L	1	11/21/2017 11:52:03 AM
Benzyl alcohol	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Bis(2-chloroethoxy)methane	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Bis(2-chloroethyl)ether	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Bis(2-chloroisopropyl)ether	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Bis(2-ethylhexyl)phthalate	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
4-Bromophenyl phenyl ether	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Butyl benzyl phthalate	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Carbazole	800	100	D	µg/L	1	11/21/2017 11:52:03 AM
4-Chloro-3-methylphenol	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
4-Chloroaniline	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
2-Chloronaphthalene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
2-Chlorophenol	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
4-Chlorophenyl phenyl ether	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Chrysene	280	100	D	µg/L	1	11/21/2017 11:52:03 AM
Di-n-butyl phthalate	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Di-n-octyl phthalate	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Dibenz(a,h)anthracene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Dibenzofuran	520	100	D	µg/L	1	11/21/2017 11:52:03 AM
1,2-Dichlorobenzene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
1,3-Dichlorobenzene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
1,4-Dichlorobenzene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
3,3´-Dichlorobenzidine	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Diethyl phthalate	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Dimethyl phthalate	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
2,4-Dichlorophenol	ND	200	D	µg/L	1	11/21/2017 11:52:03 AM
2,4-Dimethylphenol	2000	400	D	µg/L	4	11/21/2017 12:19:53 PM
4,6-Dinitro-2-methylphenol	ND	200	D	µg/L	1	11/21/2017 11:52:03 AM
2,4-Dinitrophenol	ND	200	D	µg/L	1	11/21/2017 11:52:03 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Clean Harbors
Client Sample ID: Angel Fire
Project: Geosyntec
Collection Date: 11/16/2017 2:30:00 PM
Lab ID: 1711928-001
Matrix: AQUEOUS
Received Date: 11/17/2017 9:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
2,6-Dinitrotoluene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Fluoranthene	1400	100	D	µg/L	1	11/21/2017 11:52:03 AM
Fluorene	830	100	D	µg/L	1	11/21/2017 11:52:03 AM
Hexachlorobenzene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Hexachlorobutadiene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Hexachlorocyclopentadiene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Hexachloroethane	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Indeno(1,2,3-cd)pyrene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Isophorone	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
1-Methylnaphthalene	480	100	D	µg/L	1	11/21/2017 11:52:03 AM
2-Methylnaphthalene	360	100	D	µg/L	1	11/21/2017 11:52:03 AM
2-Methylphenol	3100	400	D	µg/L	4	11/21/2017 12:19:53 PM
3+4-Methylphenol	12000	1000	D	µg/L	10	11/21/2017 12:48:50 PM
N-Nitrosodi-n-propylamine	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
N-Nitrosodimethylamine	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
N-Nitrosodiphenylamine	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Naphthalene	500	100	D	µg/L	1	11/21/2017 11:52:03 AM
2-Nitroaniline	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
3-Nitroaniline	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
4-Nitroaniline	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Nitrobenzene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
2-Nitrophenol	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
4-Nitrophenol	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Pentachlorophenol	16000	2000	D	µg/L	10	11/21/2017 12:48:50 PM
Phenanthrene	2500	400	D	µg/L	4	11/21/2017 12:19:53 PM
Phenol	3900	400	D	µg/L	4	11/21/2017 12:19:53 PM
Pyrene	1000	100	D	µg/L	1	11/21/2017 11:52:03 AM
Pyridine	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
1,2,4-Trichlorobenzene	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
2,4,5-Trichlorophenol	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
2,4,6-Trichlorophenol	ND	100	D	µg/L	1	11/21/2017 11:52:03 AM
Surr: 2-Fluorophenol	85.4	15-88	D	%Rec	1	11/21/2017 11:52:03 AM
Surr: Phenol-d5	71.2	15-72.4	D	%Rec	1	11/21/2017 11:52:03 AM
Surr: 2,4,6-Tribromophenol	96.7	15-117	D	%Rec	1	11/21/2017 11:52:03 AM
Surr: Nitrobenzene-d5	115	33.5-120	D	%Rec	1	11/21/2017 11:52:03 AM
Surr: 2-Fluorobiphenyl	101	26.5-109	D	%Rec	1	11/21/2017 11:52:03 AM
Surr: 4-Terphenyl-d14	60.8	21.7-98.7	D	%Rec	1	11/21/2017 11:52:03 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1711928**

27-Nov-17

Client: Clean Harbors

Project: Geosyntec

Sample ID **mb-35085**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW**	Batch ID: **35085**	RunNo: **47248**
Prep Date: **11/20/2017**	Analysis Date: **11/20/2017**	SeqNo: **1506843** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
3,3´-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	20								

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1711928**

27-Nov-17

Client: Clean Harbors

Project: Geosyntec

Sample ID **mb-35085**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW**	Batch ID: **35085**	RunNo: **47248**
Prep Date: **11/20/2017**	Analysis Date: **11/20/2017**	SeqNo: **1506843** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	10								
Nitrobenzene	ND	10								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	10								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2-Fluorophenol	130		200.0		65.5	15	88			
Surr: Phenol-d5	110		200.0		52.6	15	72.4			
Surr: 2,4,6-Tribromophenol	210		200.0		107	15	117			
Surr: Nitrobenzene-d5	93		100.0		93.0	33.5	120			
Surr: 2-Fluorobiphenyl	89		100.0		89.1	26.5	109			
Surr: 4-Terphenyl-d14	120		100.0		122	21.7	98.7			S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1711928**

27-Nov-17

Client: Clean Harbors

Project: Geosyntec

Sample ID **lcs-35085**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSW**	Batch ID: **35085**	RunNo: **47248**
Prep Date: **11/20/2017**	Analysis Date: **11/20/2017**	SeqNo: **1506844** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	82	10	100.0	0	82.5	41.2	98.9			
4-Chloro-3-methylphenol	150	10	200.0	0	76.6	29.1	111			
2-Chlorophenol	150	10	200.0	0	75.5	23.3	108			
1,4-Dichlorobenzene	70	10	100.0	0	69.5	29.4	84.5			
2,4-Dinitrotoluene	74	10	100.0	0	73.9	36.6	88.7			
N-Nitrosodi-n-propylamine	79	10	100.0	0	79.2	46.9	106			
4-Nitrophenol	98	10	200.0	0	49.2	15	74.7			
Pentachlorophenol	130	20	200.0	0	67.1	28.1	85.4			
Phenol	86	10	200.0	0	43.2	15	78.2			
Pyrene	81	10	100.0	0	81.2	44.4	96.8			
1,2,4-Trichlorobenzene	79	10	100.0	0	79.0	34.3	89			
Surr: 2-Fluorophenol	110		200.0		53.0	15	88			
Surr: Phenol-d5	89		200.0		44.4	15	72.4			
Surr: 2,4,6-Tribromophenol	170		200.0		83.1	15	117			
Surr: Nitrobenzene-d5	83		100.0		82.6	33.5	120			
Surr: 2-Fluorobiphenyl	79		100.0		79.3	26.5	109			
Surr: 4-Terphenyl-d14	84		100.0		83.7	21.7	98.7			

Sample ID **lcsd-35085**	SampType: **LCSD**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS02**	Batch ID: **35085**	RunNo: **47248**
Prep Date: **11/20/2017**	Analysis Date: **11/20/2017**	SeqNo: **1506845** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	92	10	100.0	0	91.8	41.2	98.9	10.7	37.4	
4-Chloro-3-methylphenol	170	10	200.0	0	87.2	29.1	111	12.9	26.8	
2-Chlorophenol	180	10	200.0	0	88.6	23.3	108	15.9	30.3	
1,4-Dichlorobenzene	83	10	100.0	0	82.9	29.4	84.5	17.6	32	
2,4-Dinitrotoluene	76	10	100.0	0	76.4	36.6	88.7	3.33	36.7	
N-Nitrosodi-n-propylamine	95	10	100.0	0	95.3	46.9	106	18.5	29.9	
4-Nitrophenol	98	10	200.0	0	48.9	15	74.7	0.428	28.8	
Pentachlorophenol	160	20	200.0	0	78.7	28.1	85.4	16.0	38.2	
Phenol	100	10	200.0	0	51.2	15	78.2	17.0	39.8	
Pyrene	93	10	100.0	0	92.5	44.4	96.8	13.0	28.3	
1,2,4-Trichlorobenzene	91	10	100.0	0	91.4	34.3	89	14.6	39.8	S
Surr: 2-Fluorophenol	120		200.0		59.4	15	88	0	0	
Surr: Phenol-d5	100		200.0		51.0	15	72.4	0	0	
Surr: 2,4,6-Tribromophenol	200		200.0		98.2	15	117	0	0	
Surr: Nitrobenzene-d5	92		100.0		92.3	33.5	120	0	0	
Surr: 2-Fluorobiphenyl	90		100.0		90.1	26.5	109	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1711928**

27-Nov-17

Client: Clean Harbors

Project: Geosyntec

Sample ID	**lcsd-35085**	SampType:	**LCSD**		TestCode:	**EPA Method 8270C: Semivolatiles**					
Client ID:	**LCSS02**	Batch ID:	**35085**		RunNo:	**47248**					
Prep Date:	**11/20/2017**	Analysis Date:	**11/20/2017**		SeqNo:	**1506845**	Units:	**µg/L**			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Terphenyl-d14		110		100.0		109	21.7	98.7	0	0	S

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
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HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CLEAN HARBORS -ABQ Work Order Number: 1711928 RcptNo: 1

Received By: Isaiah Ortiz 11/17/2017 9:20:00 AM

Completed By: Isaiah Ortiz 11/17/2017 10:06:17 AM

Reviewed By:

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Client		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☐	No ☑	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	# of preserved bottles checked for pH:
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

Poured off from 4oz jars into 500 unpreserved amber for 8270 analysis.

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	28.8	Good	Not Present			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: CLEAN HARBORS -ABQ Work Order Number: 1711928 RcptNo: 1

Chain-of-Custody Record

Client: ~~(Geo-synTec)~~ Clean Harbors

Mailing Address: 2720 Girard Blvd NE ABQ, NM 87107

Phone #: (505) 238-2523

email or Fax#: Brett Perry Perry.brett@cleanharbors.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Geosyntec

Project #:

Project Manager: Brett Perry (505)238-2523

Sampler: Andrew Montoya

On Ice: ☐ Yes ☒ No

Sample Temperature: 28.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
4/17/17	2:35		8270			1711928												
4/16/17	2:30	Ag	Dingle Fire			-001											X	

Date:	Time:	Relinquished by:	Received by:	Date	Time
11-17-2017	920	Andrew Montoya		11/17/17	9:20
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Clean Harbors Environmental Services, Inc.
2720 Girard NE
Albuquerque, NM 87107
www.cleanharbors.com

November 14, 2017

Attn: Mr. Anthony Jones
Geosyntec
1650 Iowa Avenue, Suite 180
Riverside, CA 92507

Quote #2787916, Angel Fire, LLC, Angel Fire, NM

Dear Mr. Jones

Thank you for considering Clean Harbors Environmental Services, Inc. for your environmental service needs. We provide a broad range of environmental services including hazardous and non-hazardous waste transportation and disposal, laboratory chemical packing, emergency response, field services and industrial maintenance. We are pleased to provide this proposal based on the scope of work outlined below.

We offer our clients a broad spectrum of environmental services and the ability to dispose of hazardous material at or through a Clean Harbors' owned and operated facility. In addition to managing your waste streams, a Clean Harbors' professional can assist you with:

- Waste Transportation & Disposal
- Laboratory Chemical Packing
- Field Services
- 24-Hour Environmental Emergency Response
- Industrial Services
- InSite Services

I look forward to servicing your environmental needs. When you are ready to place an order, please contact our Customer Service group at 800.444.4244. If you have any questions or need further assistance, you may reach me at the number below.

Sincerely,

Kris Kamosa
Branch Manager
Phone: 505.280.7462

ESTIMATE ONLY

QUOTE CONDITIONS

The proposal is based on the following assumptions and site conditions. Any work which falls outside of the assumptions will constitute work beyond the intended scope and be completed upon mutually satisfactory terms.

Clean Harbors Environmental Services (CHES) will conduct Health and Safety meeting prior to the start of the project to go over any hazards of the job.

This quote is for vac services, (1) Equipment Operator (1) Field Tech (1) Vac Truck (1) Man Lift (1) Pickup truck. This quote is for the removal of the water from all three tanks on location, is off of east side of Mountain View Blvd and Highway 64 Angel Fire. CHES will have to extract the water from the top of the tank, because the valves that are currently on the tank will not allow CHES to extract the water completely. CHES will remove the water and transport to the disposal facility.

No waste will be shipped off location prior to a waste profile being approved by the disposal facility. Sampling may be required by the disposal facility prior to waste profile approval, in which waste class code could change.

For the purpose of this quote, we are ESTIMATING this job will take 6 hours to complete. Customer will ONLY be charged for the hour(s) worked.

A signed quote and PO#, issued to Clean Harbors, will be required prior to starting any work outlined in this proposal.

Any delays outside the control of Clean Harbor i.e. weather, strikes, Acts of God, etc., which affect the operating plan may result in a change order being agreed upon by both parties prior to continuing with the project.

ESTIMATE ONLY

QUOTE SUMMARY

Description	Estimated Amount
TASK 1: MOB / DEMOB	$1,858.00
$929.00 per move, estimated 2 moves	
TASK 2: TANK CLEANING (3) TANKS	$3,619.00
$329.00 per hour, estimated 11 hours	
TASK 3: MAN LIFT	$1,029.00
$1,029.00 per maint. service, estimated 1 maint. service	
TASK 4: TANK REMOVAL (3) TANKS	$5,978.00
$2,989.00 per man-day, estimated 2 man-days	
TASK 5: TRANSPORTATION TO DIPSOSAL / LIQUIDS	$2,329.00
$2,329.00 per load, estimated 1 load	
TASK 6: DISPOSAL LIQUIDS WASTE	$756.00
TASK 7: TRANSPORATION FOR RECYCLE	$989.00
$989.00 per move, estimated 1 move	
Subtotal	**$16,558.00**
Estimated Recovery Fee	**$1,821.38**
ESTIMATED QUOTE TOTAL*	**$18,379.38**

*Quote total is an estimate. Final billing will be based upon actual quantities of resources used and/or volumes of waste produced in performance of the quoted services.

ESTIMATE ONLY

TASK 1: MOB / DEMOB

TASK 1: TOTAL LABOR, EQUIPMENT, AND MATERIAL	**$1,858.00**
$929.00 per move, estimated 2 moves	
Estimated Recovery Fee	$204.38
Estimated total, including Fees	**$2,062.38**

TASK 2: TANK CLEANING (3) TANKS

TASK 2: TOTAL LABOR, EQUIPMENT, AND MATERIAL	**$3,619.00**
$329.00 per hour, estimated 11 hours	
Estimated Recovery Fee	$398.09
Estimated total, including Fees	**$4,017.09**

TASK 3: MAN LIFT

TASK 3: TOTAL LABOR, EQUIPMENT, AND MATERIAL	**$1,029.00**
$1,029.00 per maint. service, estimated 1 maint. service	
Estimated Recovery Fee	$113.19
Estimated total, including Fees	**$1,142.19**

TASK 4: TANK REMOVAL (3) TANKS

TASK 4: TOTAL LABOR, EQUIPMENT, AND MATERIAL	**$5,978.00**
$2,989.00 per man-day, estimated 2 man-days	
Estimated Recovery Fee	$657.58
Estimated total, including Fees	**$6,635.58**

TASK 5: TRANSPORTATION TO DIPSOSAL / LIQUIDS

ESTIMATE ONLY

TASK 5: TOTAL LABOR, EQUIPMENT, AND MATERIAL — $2,329.00

$2,329.00 per load, estimated 1 load

Estimated Recovery Fee	$256.19
Estimated total, including Fees	**$2,585.19**

TASK 6: DISPOSAL LIQUIDS WASTE

DISPOSAL

Profile / Waste Code	Waste Description	Price/UOM
CNOS	NON HAZARDOUS SEMI-SOLIDS	$0.25 / gallon*

*The following minimum price(s) will apply:

Profile/Waste Code	UOM	Minimum Price
CNOS	container	$500.00

TRANSPORTATION

Transportation Hub	Vehicle Type	Unit Rate	Unit of Measure
LES, AZ	Vacuum Trailer with Operator	N/A	N/A

Transportation is covered by Labor, Equipment, and Material on another Task.

ACCESSORIALS

Pumping time	$125.00 per Hour
Per Diem / Subsistence	$211.00 per Day
Tank Wash	$256.00 Each

WASTE CLASSIFICATIONS SPECIFICATIONS

Waste Code	Description
CNOS	**Non Hazardous Semi-Solids** Must be able to be landfilled No herbicides, pesticides, or cyanides Source of PCB < 50 ppm Flash point over 140°F PRIMARY DISPOSAL METHOD: NON HAZARDOUS LANDFILL **********

ESTIMATE ONLY

WASTE CLASSIFICATIONS SPECIFICATIONS

Waste Code	Description
CNOS	**Non Hazardous Semi-Solids** Non-hazardous Must be biodegradable No PCB pH – 2.1 to 12.4 PRIMARY DISPOSAL METHOD: NON HAZARDOUS LANDFARM

TASK 7: TRANSPORATION FOR RECYCLE

TASK 7: TOTAL LABOR, EQUIPMENT, AND MATERIAL **$989.00 per move, estimated 1 move**	**$989.00**
Estimated Recovery Fee	$108.79
Estimated total, including Fees	**$1,097.79**

GENERAL CONDITIONS

- Except where superseded by an existing services agreement the following terms and conditions apply to this quoted business.
- The customer hereby acknowledges that the estimated cost is based upon a preliminary appraisal by a Clean Harbors Representative, and that the amount invoiced by Clean Harbors will be based upon labor and materials actually expended in performing the scope of work. Any changes in the scope will be billed on a time and materials basis.
- Clean Harbors guarantees to hold these prices firm for 60 days.
- Terms: Paid When Paid, Net 45
- For work to begin we ask that you acknowledge the quotation with a signature and provide the appropriate purchase order number. Where modifications to the scope of services become necessary, Clean Harbors will notify the customer promptly and obtain customer authorization for such modifications and a revised contract price will be established in order to finish the project.

ESTIMATE ONLY

GENERAL CONDITIONS

- This proposal is contingent on the customer providing full and complete access to the site. Customer represents and warrants to Clean Harbors that the customer has the legal right, title and interest necessary to provide access to the site. In addition, customer warrants that it has supplied Clean Harbors complete and accurate information regarding the site, subsurface conditions, utility locations, site ownership, hazardous materials or wastes and other substances or hazards likely to be present and any other reports, documentation or information concerning the scope of work.
- Interest will be charged at 1.5% per month or the maximum allowed by law for all past due amounts.
- Disposal will be managed within the Clean Harbors Network of Approved Facilities.
- Local, state and federal fees/taxes applying to the generating location/receiving facilities are not included in disposal pricing and will be added to each invoice as applicable.
- Materials subject to additional charges if they do not conform to the listed specifications.
- Electronically submitted profiles will be approved at no charge. Paper profiles will be charged at $75.00 each.
- Clean Harbors supports many invoice delivery options (E-mail, Electronic Invoicing, EDI, Etc.). Pricing is based on Clean Harbors' standard invoice delivery method of E-mail. If another delivery method is required there could be an additional service fee per invoice. Any alternate delivery methods must be reviewed and approved by Clean Harbors prior to acceptance and implementation.
- A variable Recovery Fee (that fluctuates with the DOE national average diesel price), currently at 11.0%, will be applied to the total invoice. For more information regarding our recovery fee calculation please go to: www.cleanharbors.com/recoveryfee.
- Pickups that require same day or next day service may be subject to additional charges.
- Pickups cancelled within 72 hours of scheduling will be subject to cancellation charges.
- Transportation charges to the final disposal facility will be charged in addition to local transportation to our truck to truck hub/local facility and will vary with logistics and routing.
- Time over eight (8) hours in the normal workday and all day Saturday is considered overtime and will be billed at 1.5 times the applicable straight time rate for all billable personnel unless otherwise quoted. Sunday and Holidays are considered premium time and will be billed at 2.0 times the applicable straight time rate for all billable personnel unless otherwise quoted.
- This proposal is submitted contingent upon the right to negotiate mutually acceptable contract terms and conditions, which are reflective of the work contemplated, and an equitable distribution of the risks involved therein. In the event that such agreement cannot be reached, Clean Harbors reserves the right to decline to enter into such an agreement without prejudice or penalty.
- In the event that legal or other action is required to collect unpaid invoice balances, Customer agrees to pay all costs of collection, including reasonable attorneys' fees, and agrees to the jurisdiction of the Commonwealth of Massachusetts.

ESTIMATE ONLY

ACKNOWLEDGEMENT

Your signature below indicates your acceptance of the pricing and terms detailed in the quote above.

Thank you for the opportunity to be of service.

Signature	PO#	Date

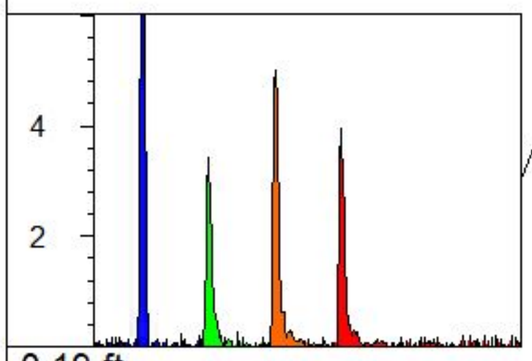
Print Name

Quote # 2787916

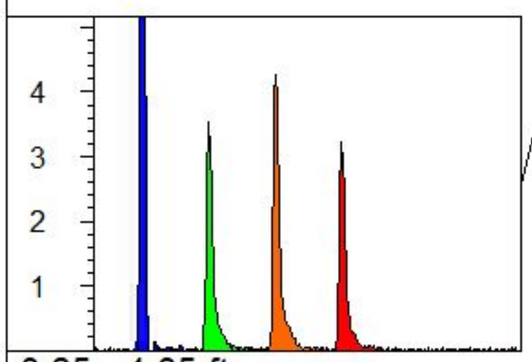
ESTIMATE ONLY

APPENDIX B

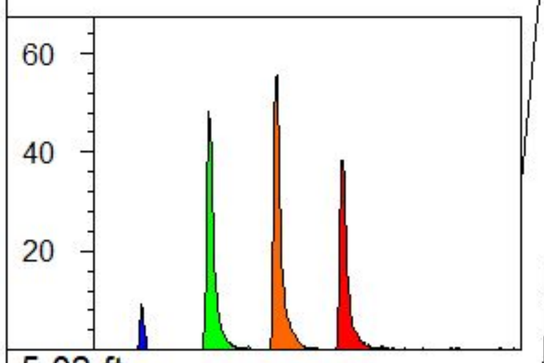
Callouts



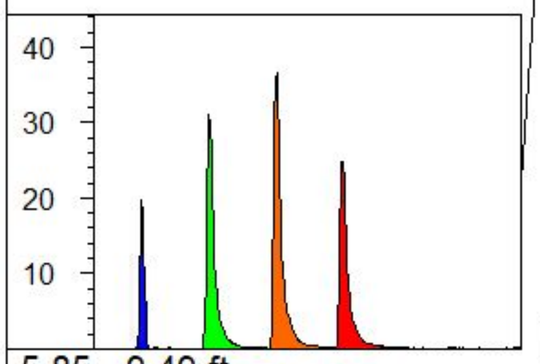
0.19 ft
24.1 %RE
?



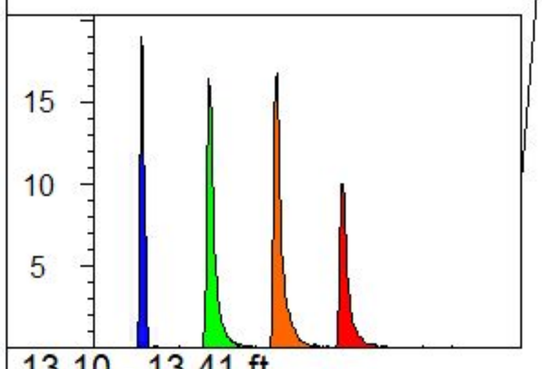
3.25 - 4.65 ft
18.7 %RE (s 2.5)
?



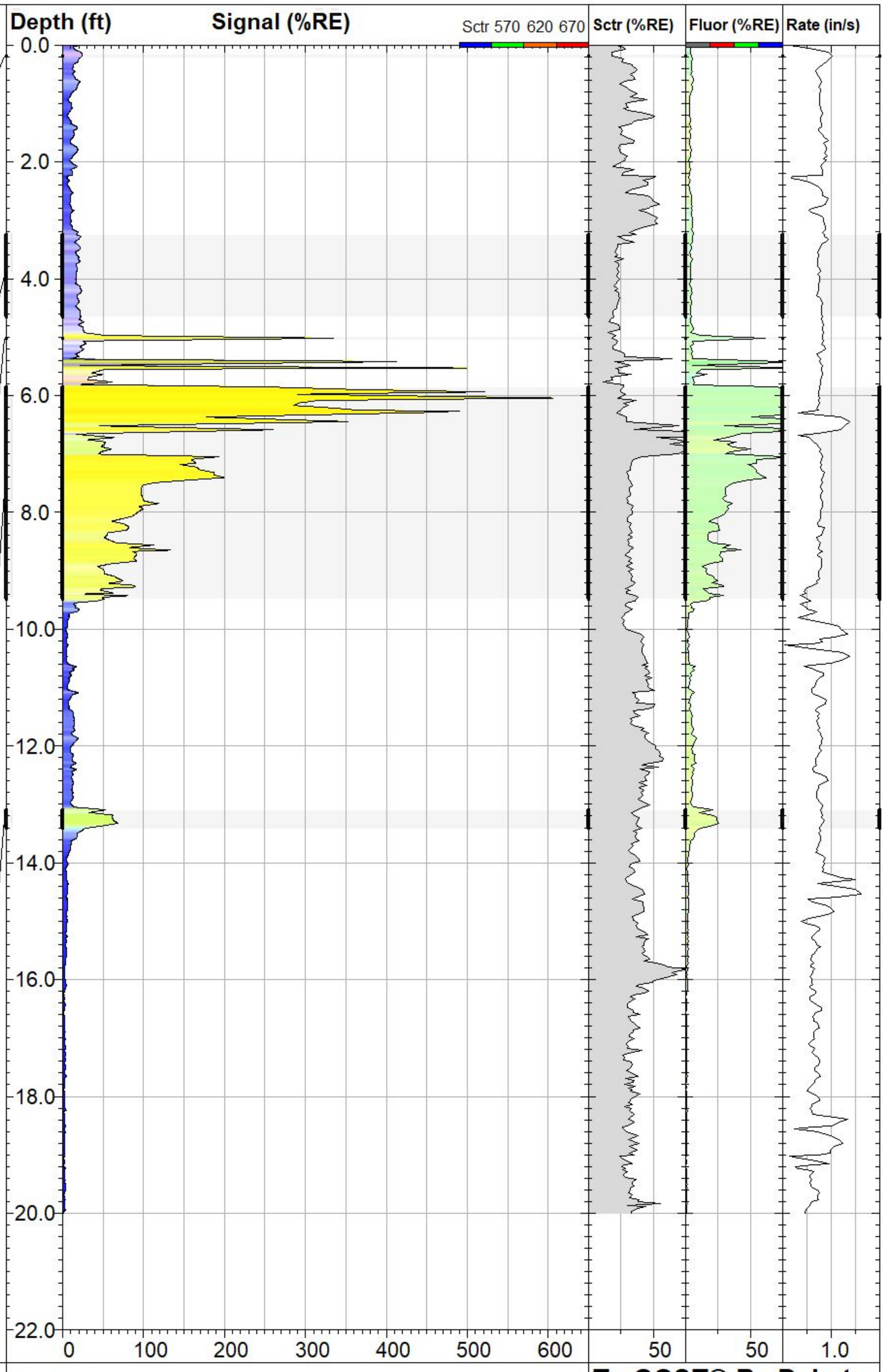
5.02 ft
337.7 %RE



5.85 - 9.49 ft
109.0 %RE (s 122.6)



13.10 - 13.41 ft
52.0 %RE (s 15.1)



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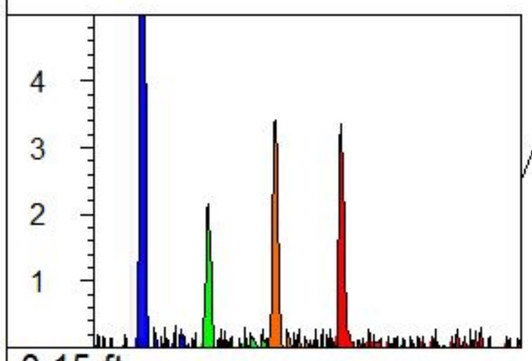
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B-01

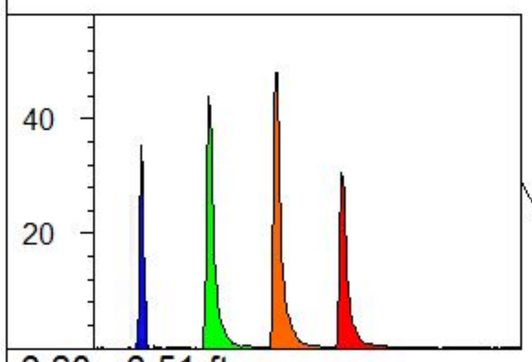
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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.00 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **611.0 %RE @ 6.04 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 09:23 MDT**

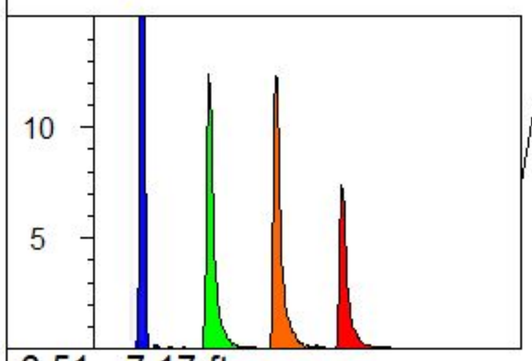
Callouts



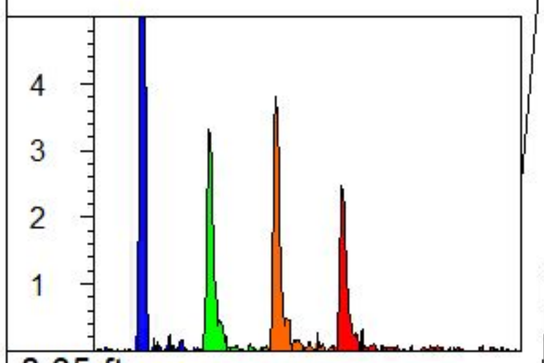
0.15 ft
10.7 %RE
?



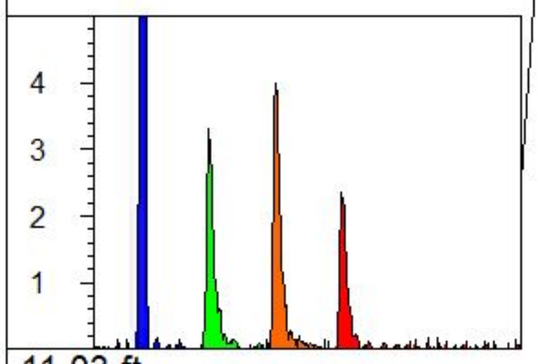
6.20 - 6.51 ft
82.0 %RE (s 35.9)



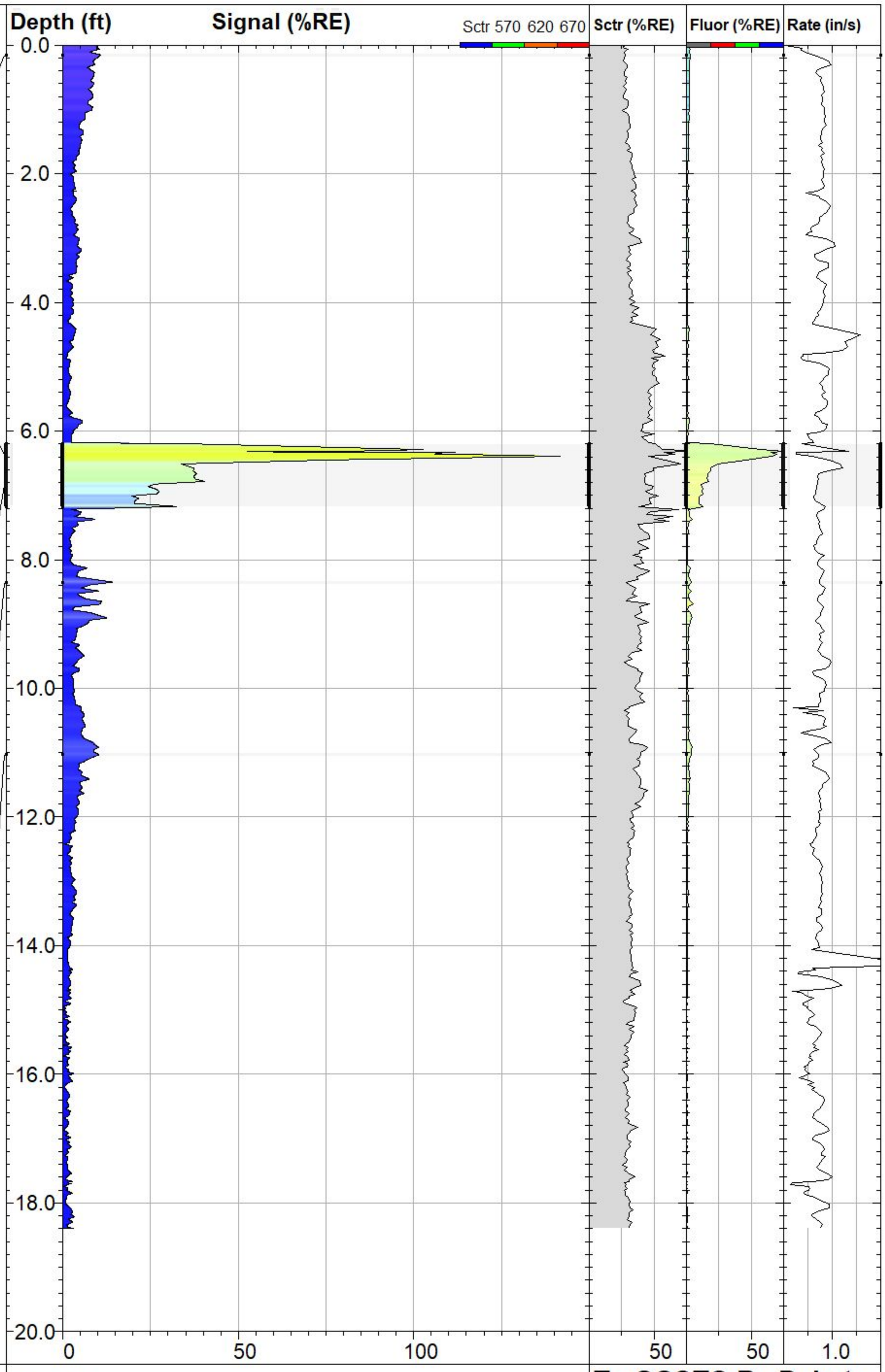
6.51 - 7.17 ft
29.7 %RE (s 7.3)



8.35 ft
14.4 %RE
?



11.03 ft
10.3 %RE
?



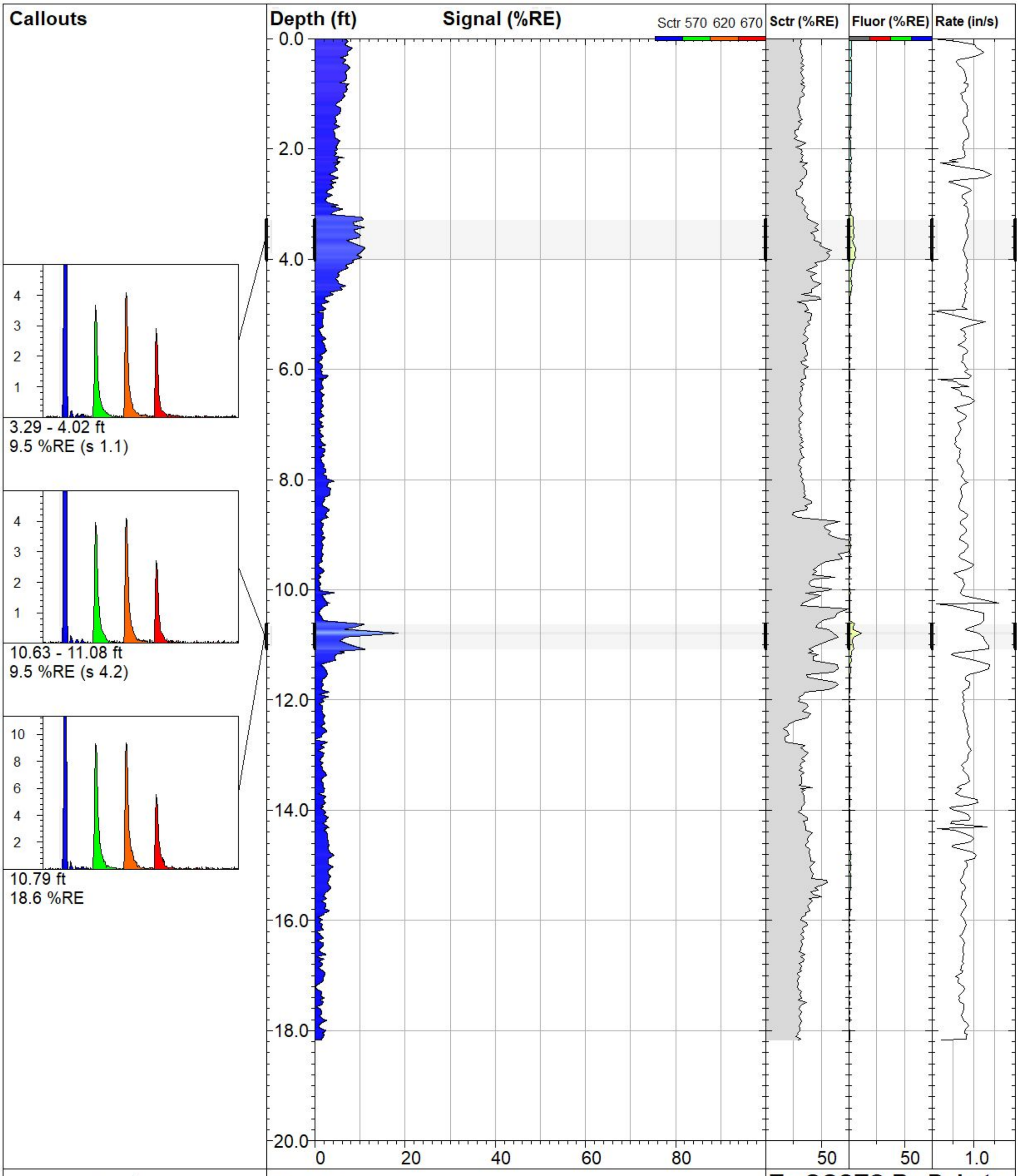
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B-02

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.40 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **142.6 %RE @ 6.39 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 10:25 MDT**



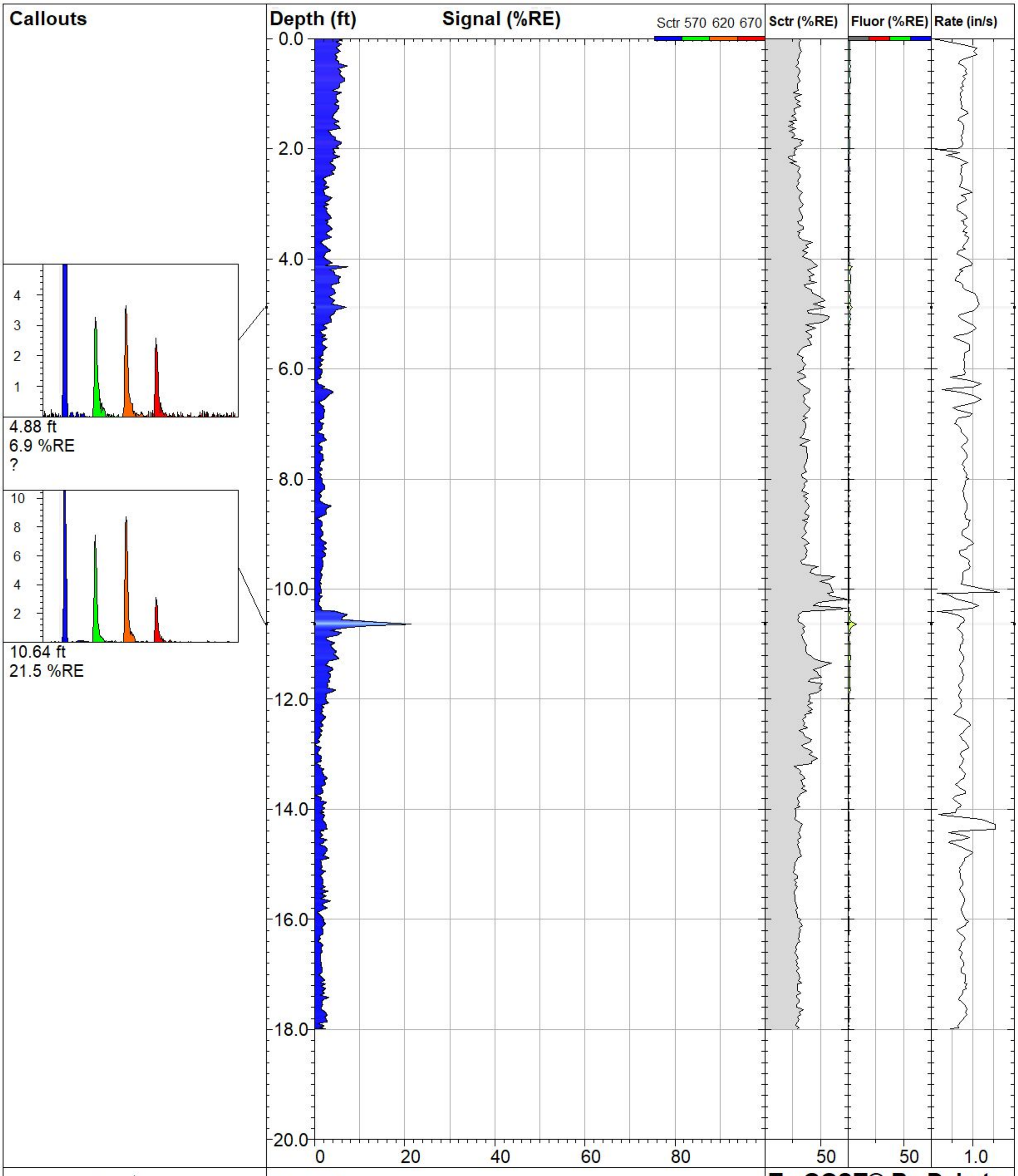
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B-03

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.17 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **18.6 %RE @ 10.79 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 10:58 MDT**



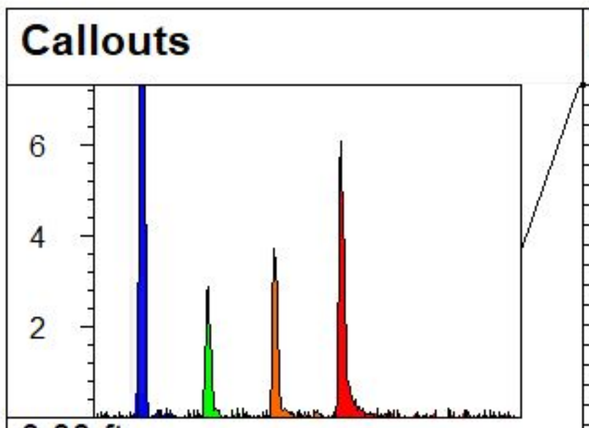
DAKOTA TECHNOLOGIES

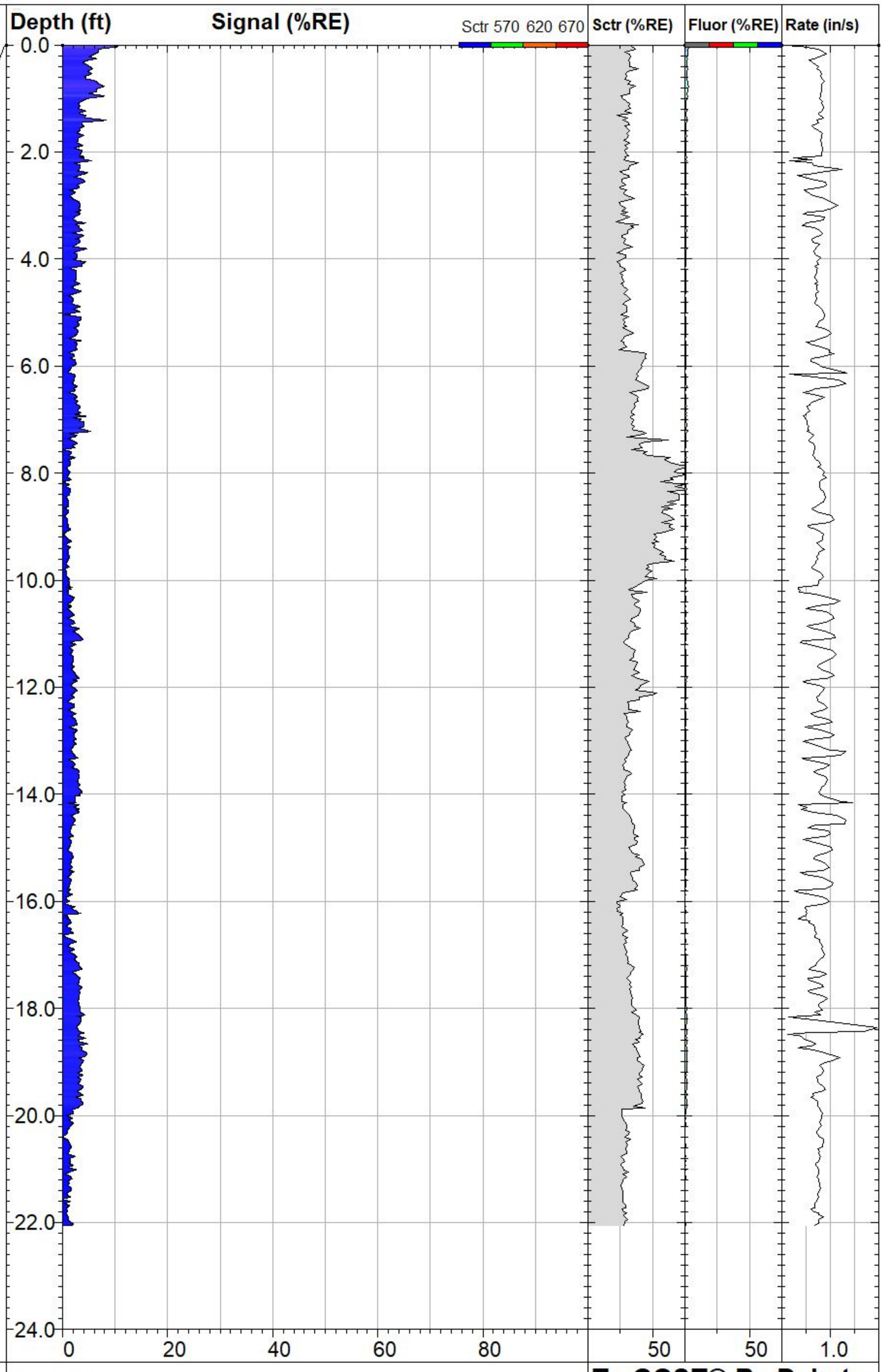
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B-04

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.99 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **21.5 %RE @ 10.64 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 11:29 MDT**





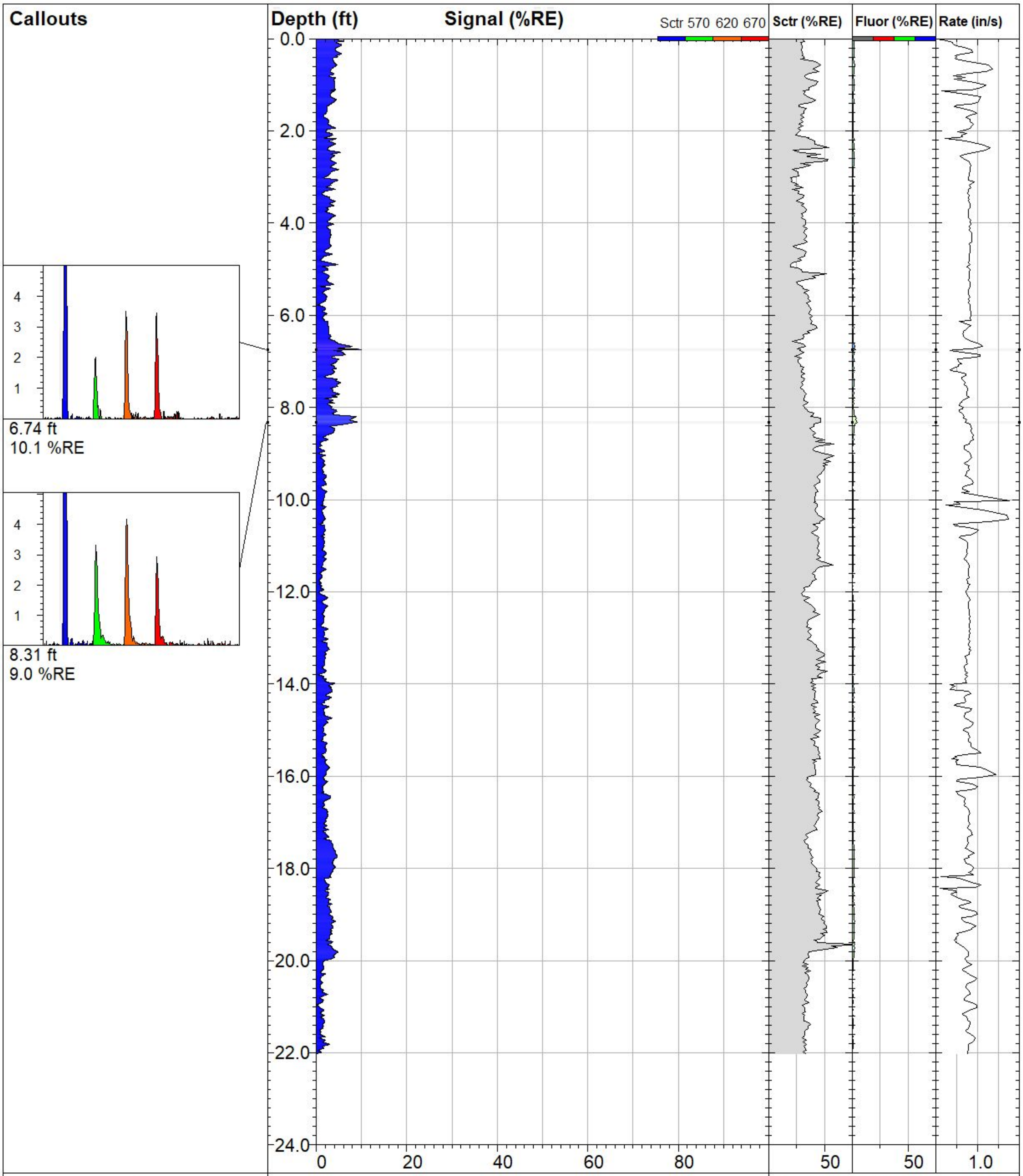
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B-05

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **22.06 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **12.6 %RE @ 0.00 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 12:04 MDT**



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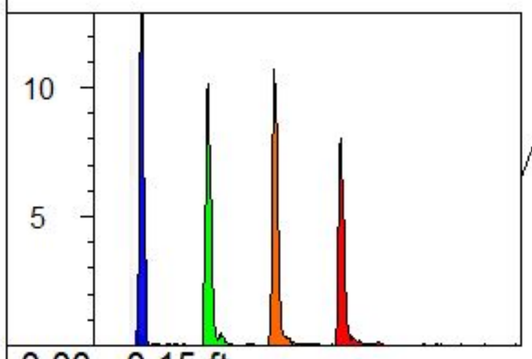
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B-06

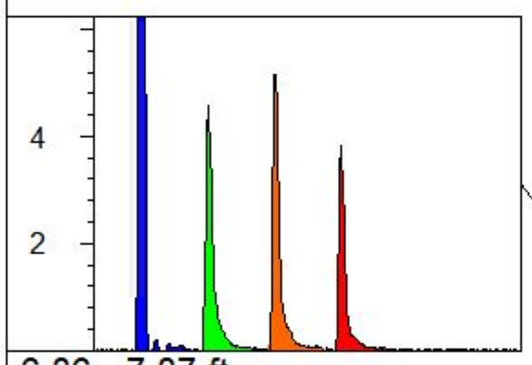
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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **22.01 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **10.1 %RE @ 6.74 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 12:40 MDT**

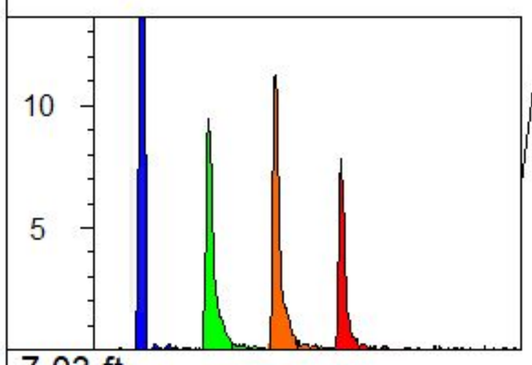
Callouts



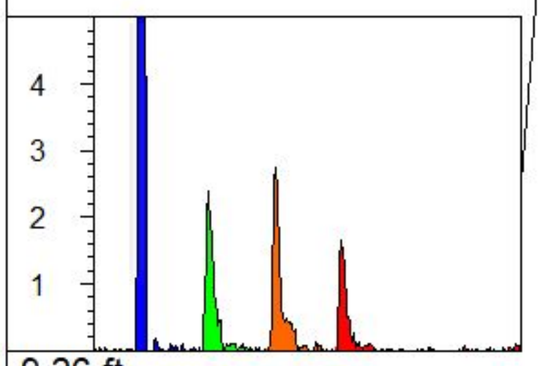
0.00 - 0.15 ft
32.3 %RE (s 5.6)
?



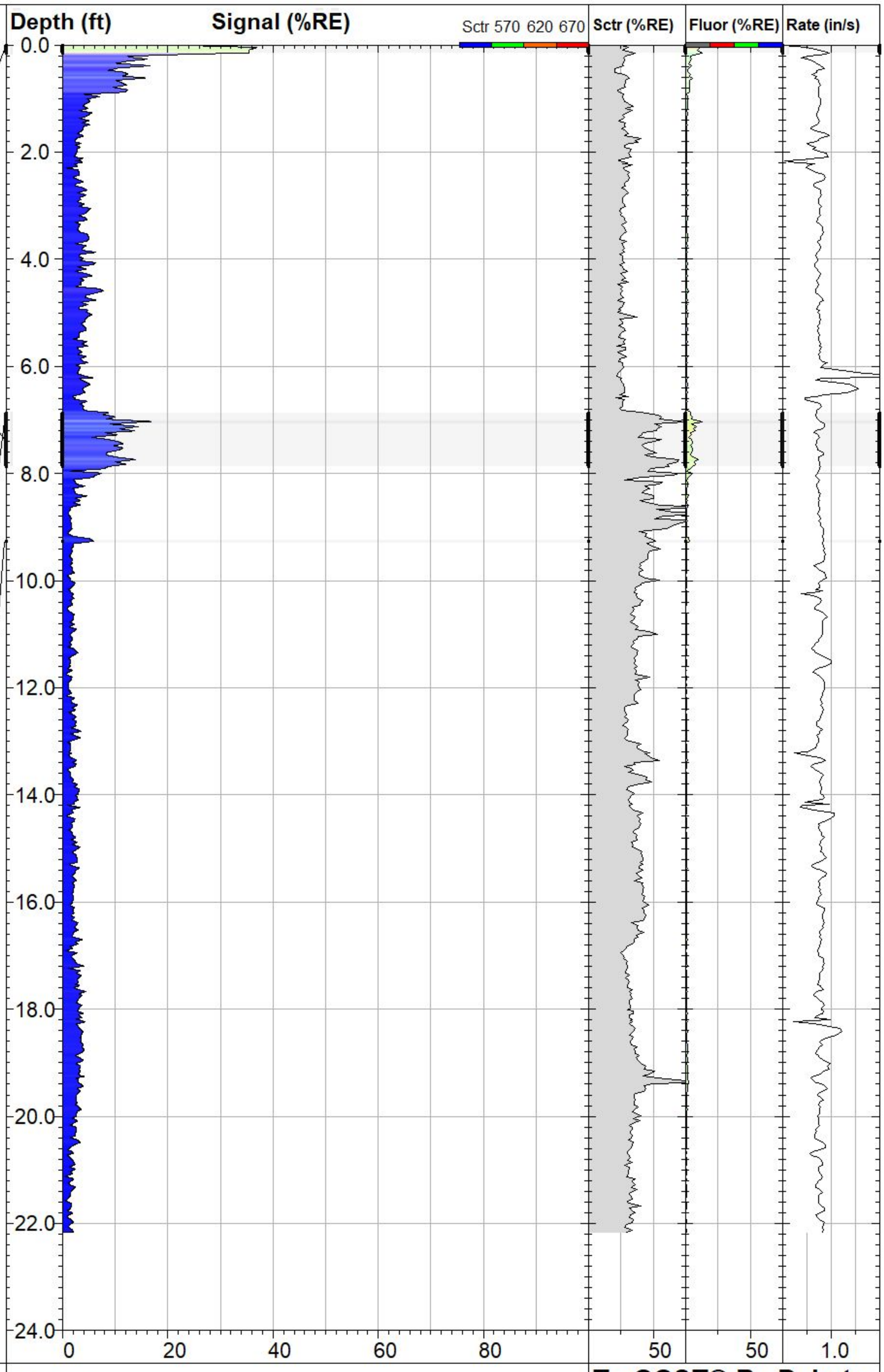
6.86 - 7.87 ft
10.5 %RE (s 2.5)



7.03 ft
16.8 %RE



9.26 ft
5.9 %RE



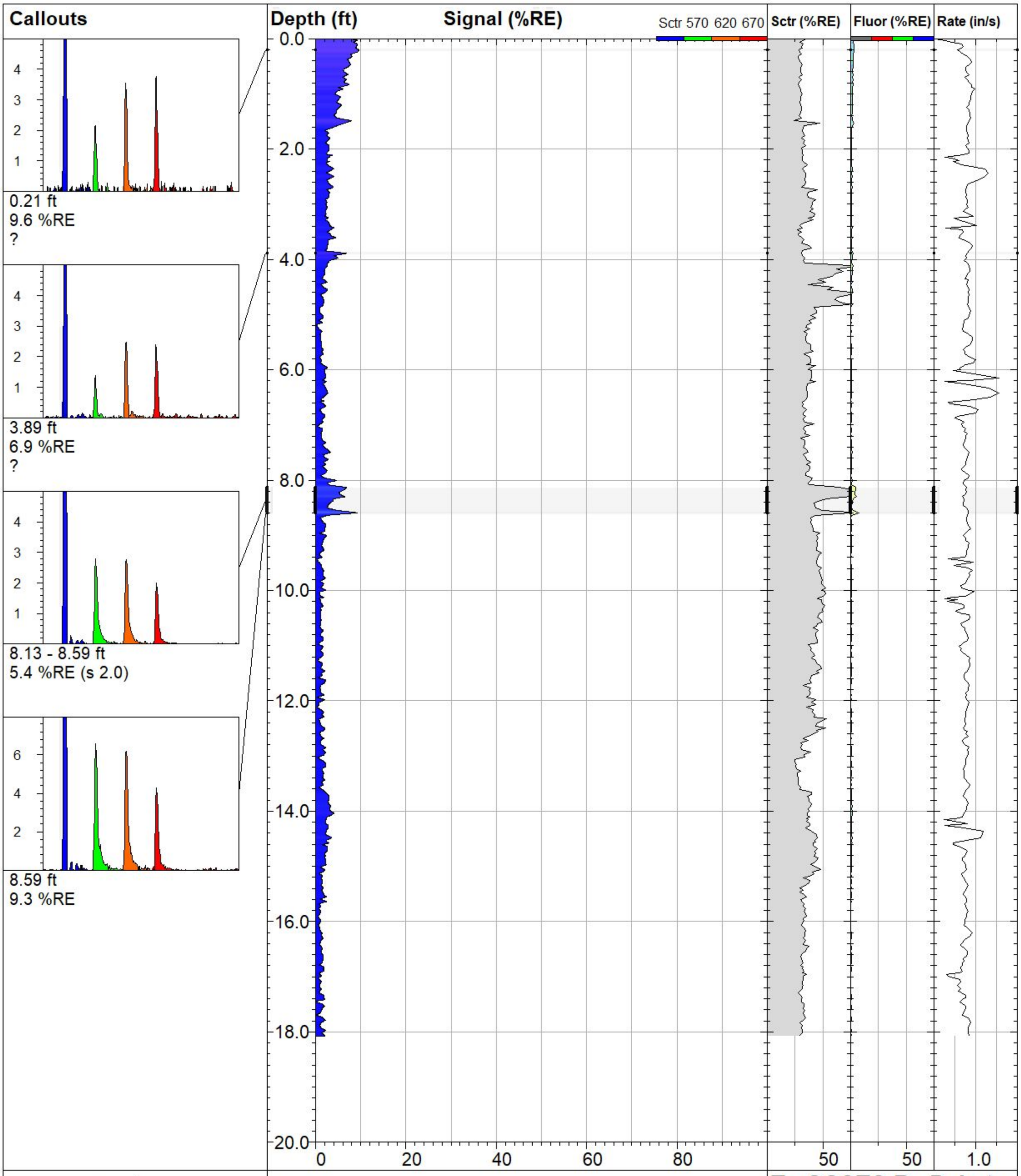
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B-07

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **22.16 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **36.9 %RE @ 0.05 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 13:19 MDT**



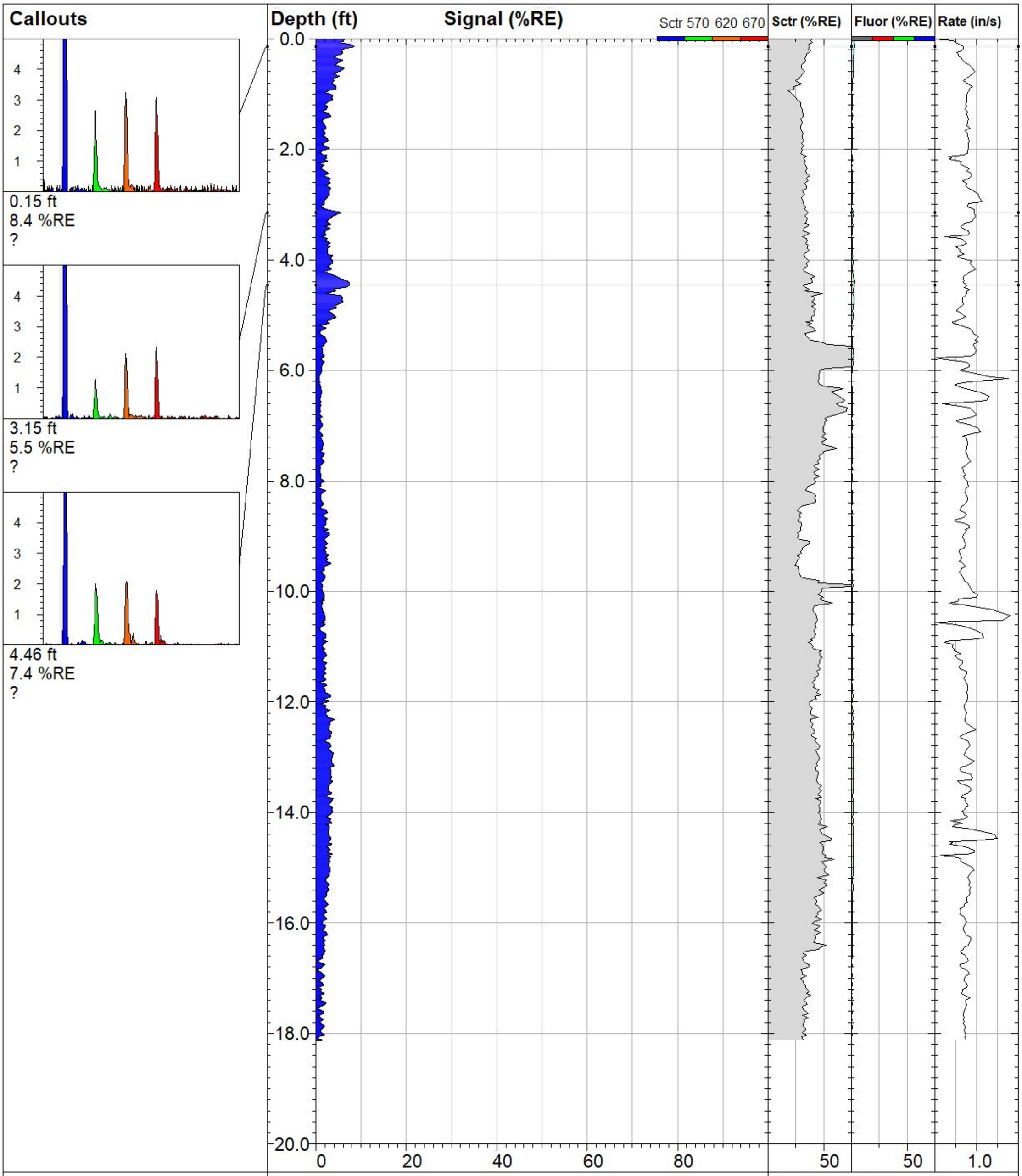
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B-08

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.08 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **9.6 %RE @ 0.21 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 13:49 MDT**



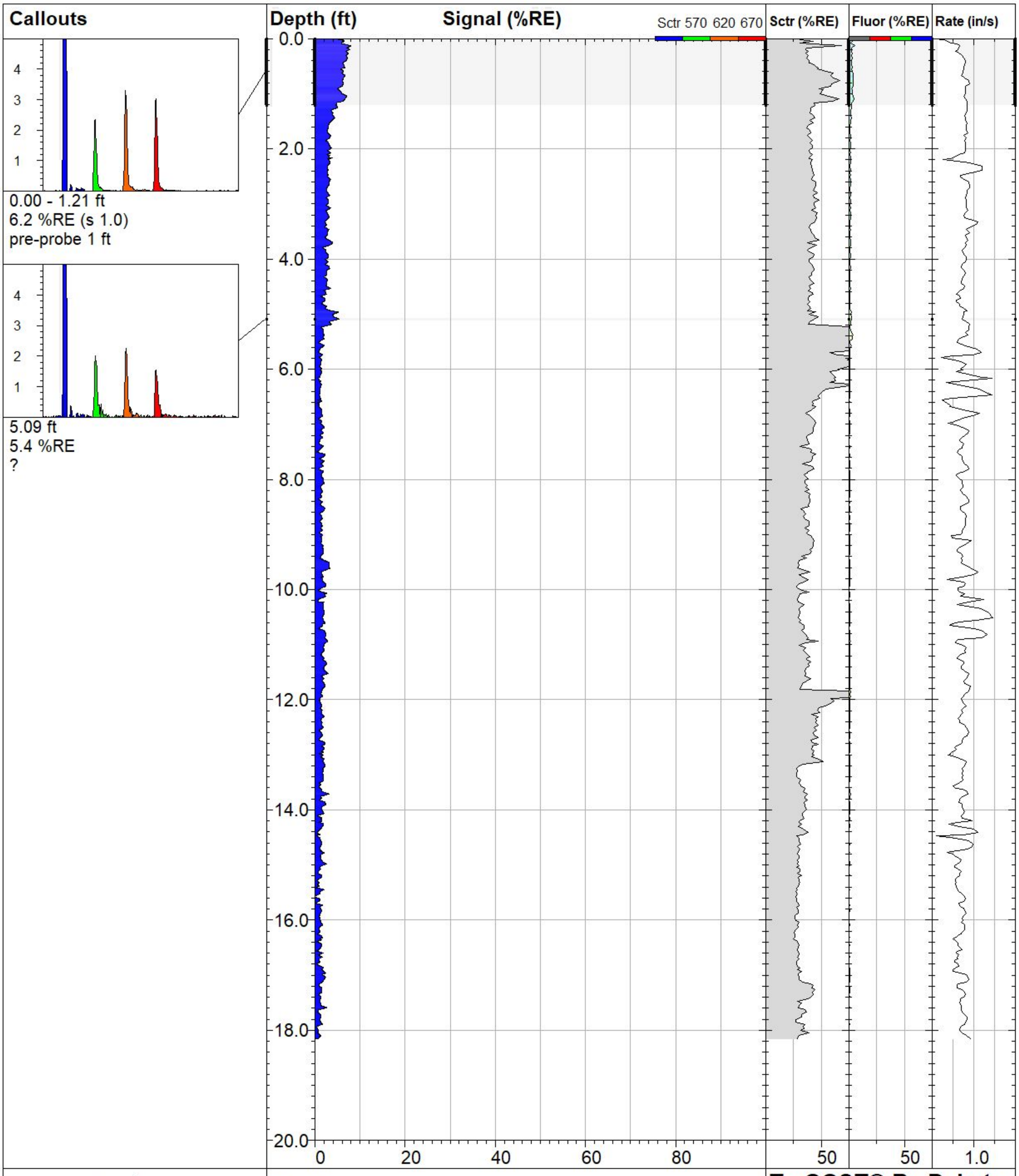
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B-09

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.12 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.4 %RE @ 0.15 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 14:25 MDT**



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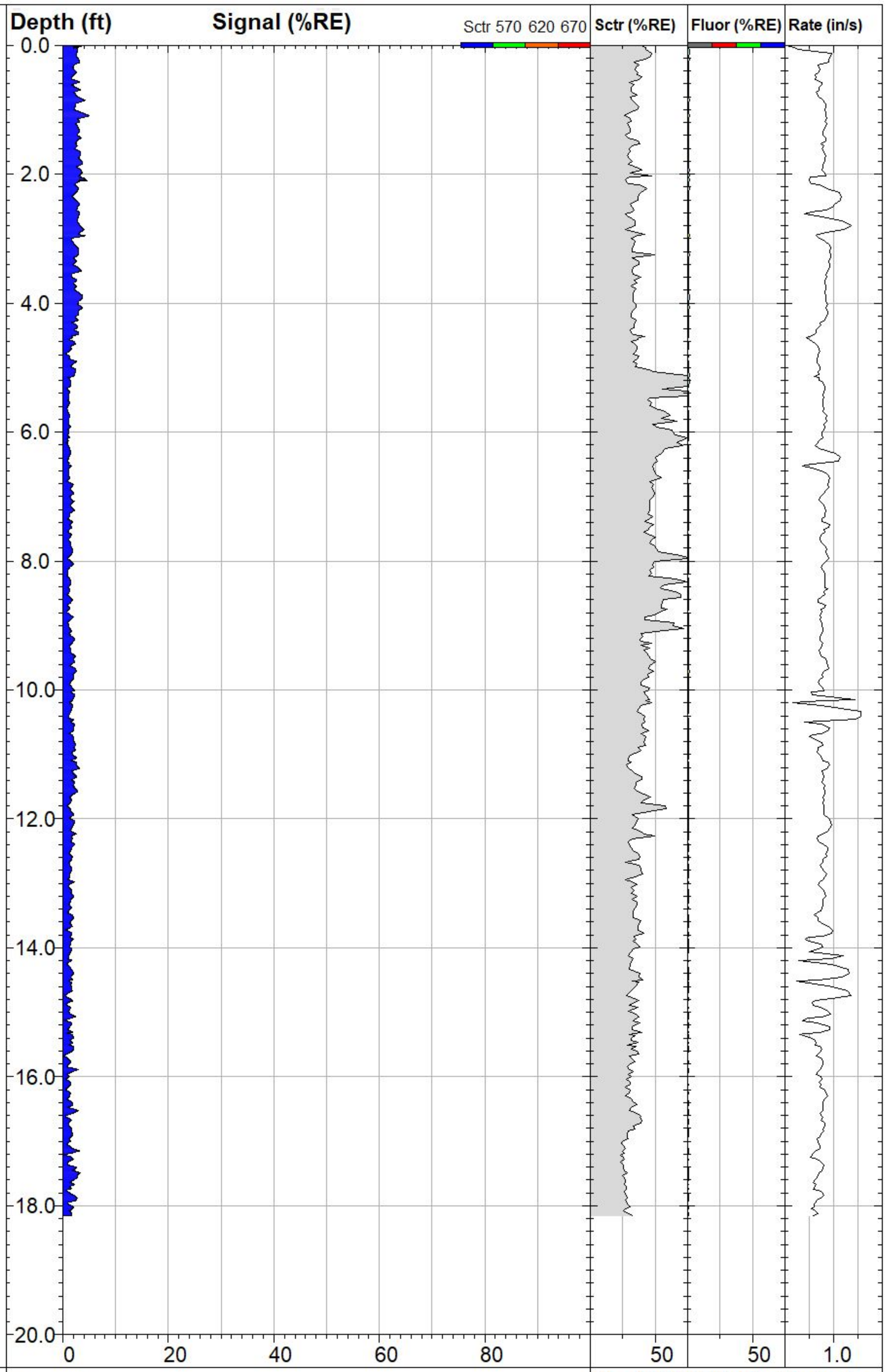
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B-10

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.15 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.0 %RE @ 0.13 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 15:20 MDT**

Callouts



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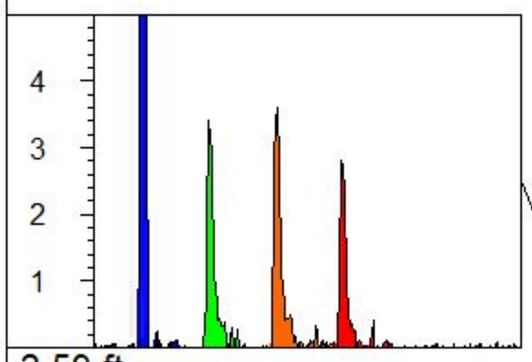
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B-11

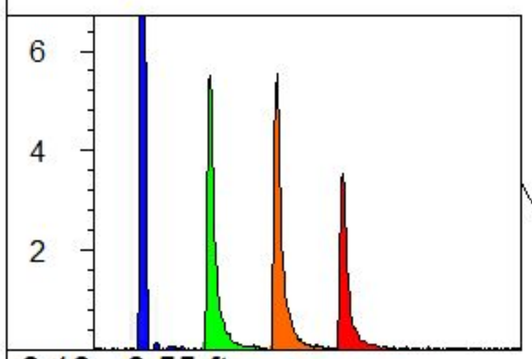
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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.15 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.1 %RE @ 1.10 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-24 15:59 MDT**

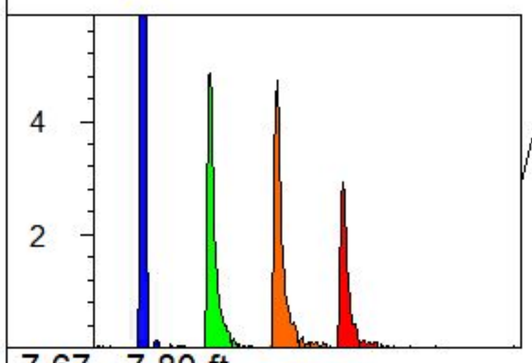
Callouts



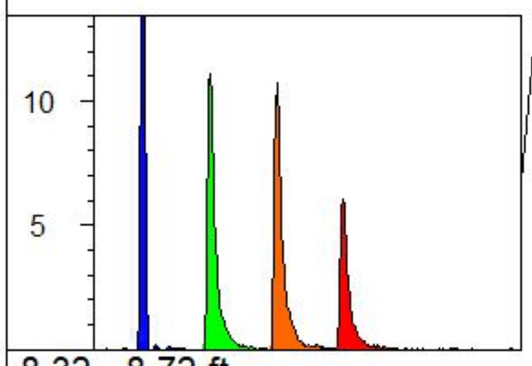
2.59 ft
7.6 %RE
?



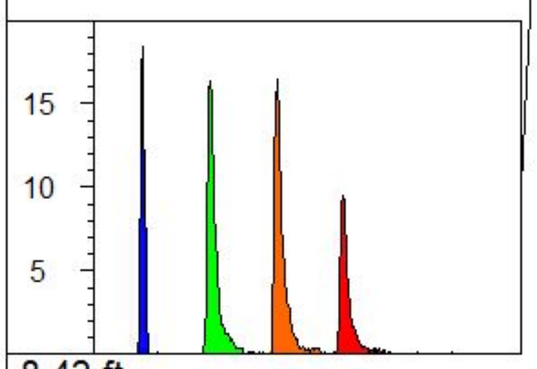
6.16 - 6.55 ft
21.2 %RE (s 12.4)



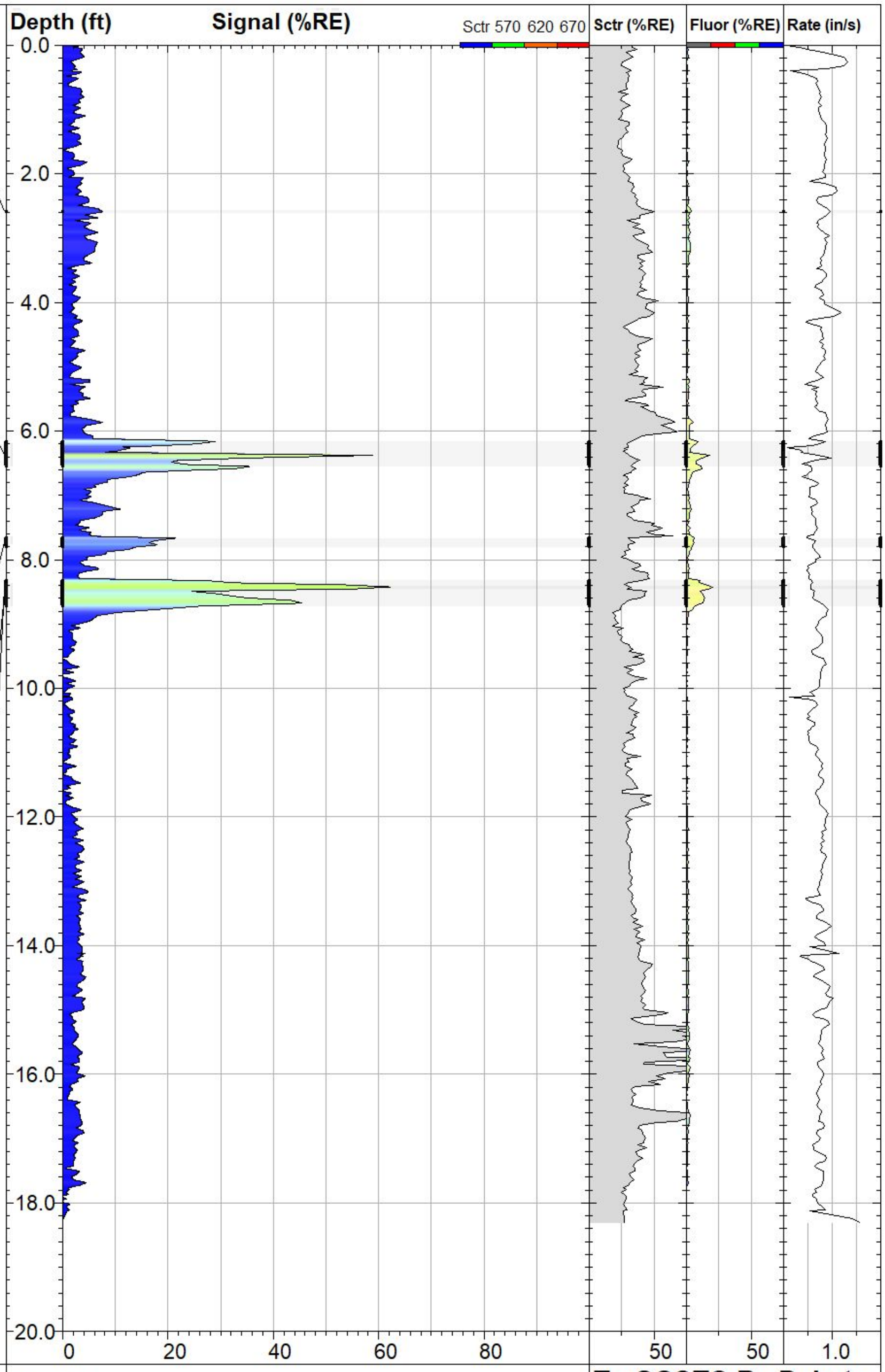
7.67 - 7.80 ft
17.4 %RE (s 2.8)



8.32 - 8.72 ft
37.5 %RE (s 12.8)



8.42 ft
62.1 %RE



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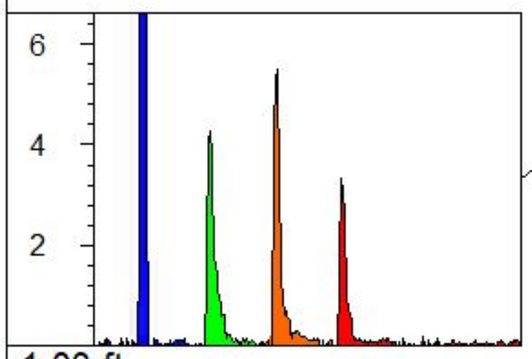
www.DakotaTechnologies.com

B-12

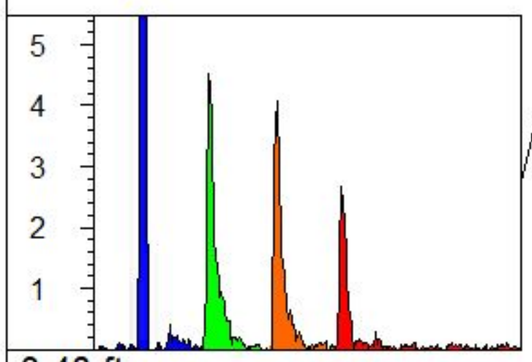
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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.30 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **62.1 %RE @ 8.42 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 08:37 MDT**

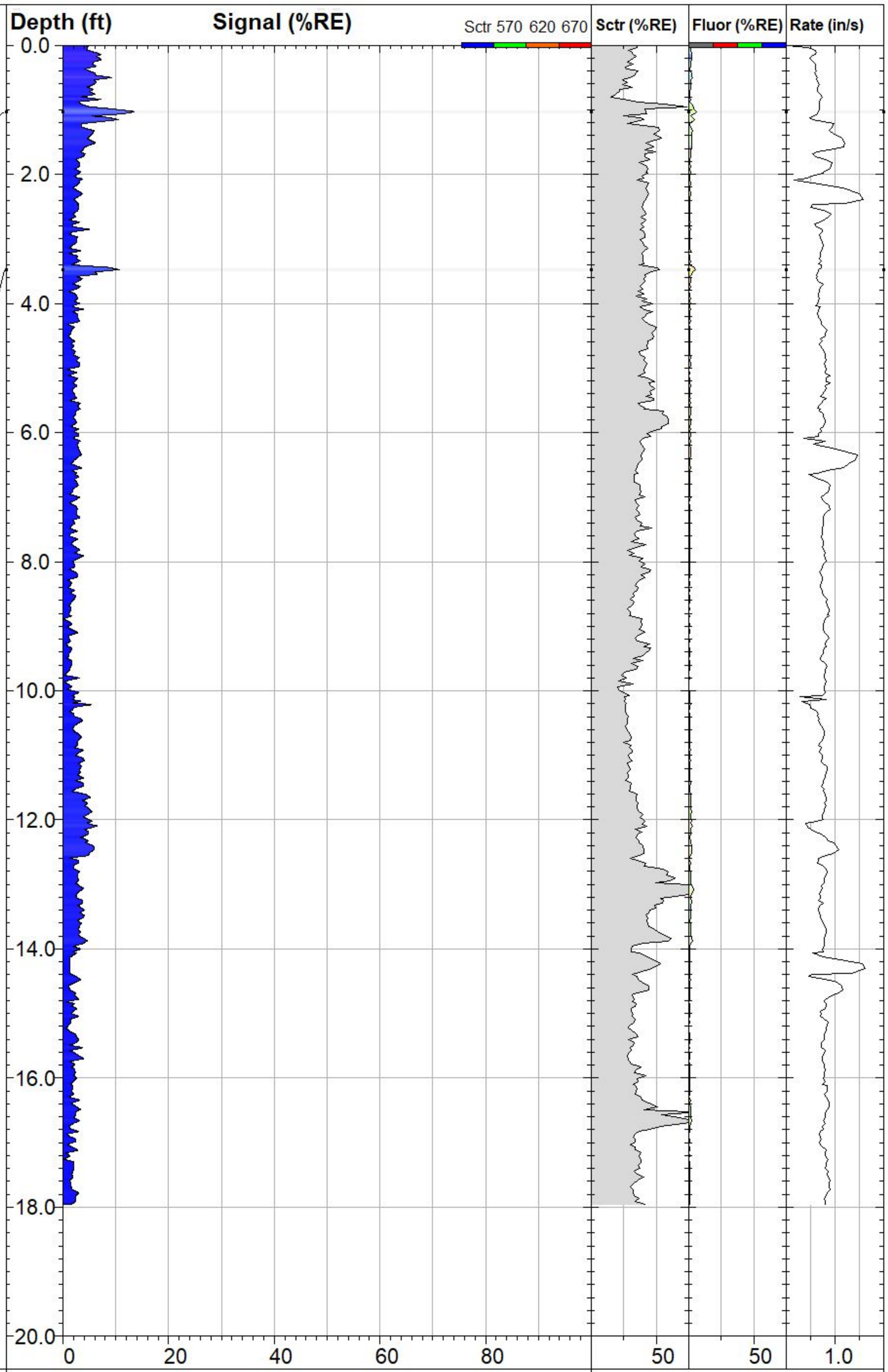
Callouts



1.03 ft
13.6 %RE
?



3.48 ft
10.7 %RE
?



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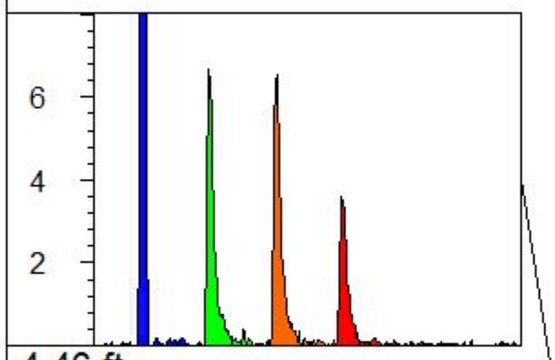
WWW.DAKOTATECHNOLOGIES.COM

B-13

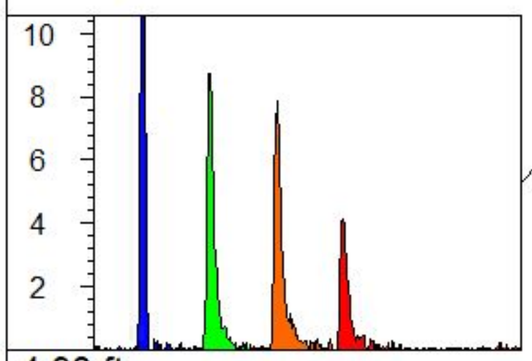
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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **17.96 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **13.6 %RE @ 1.03 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 09:05 MDT**

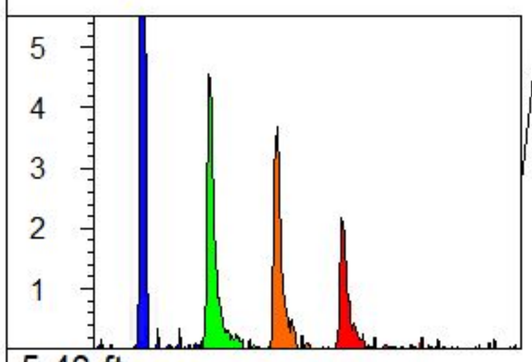
Callouts



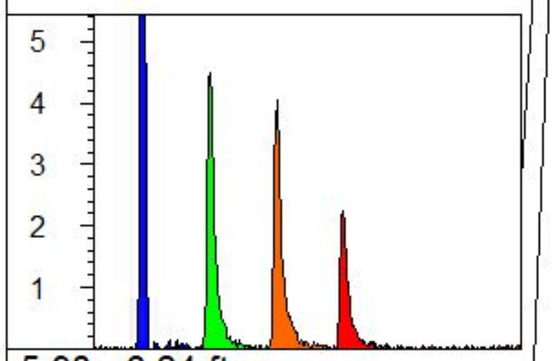
4.46 ft
14.8 %RE



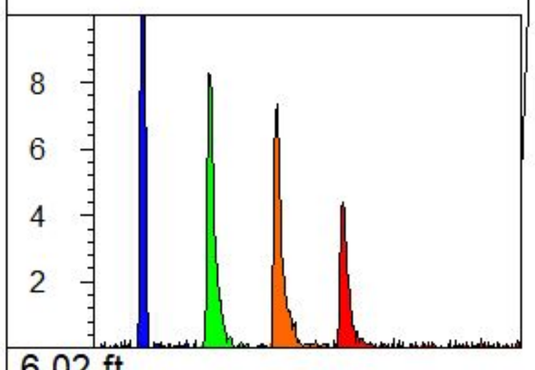
4.96 ft
29.1 %RE



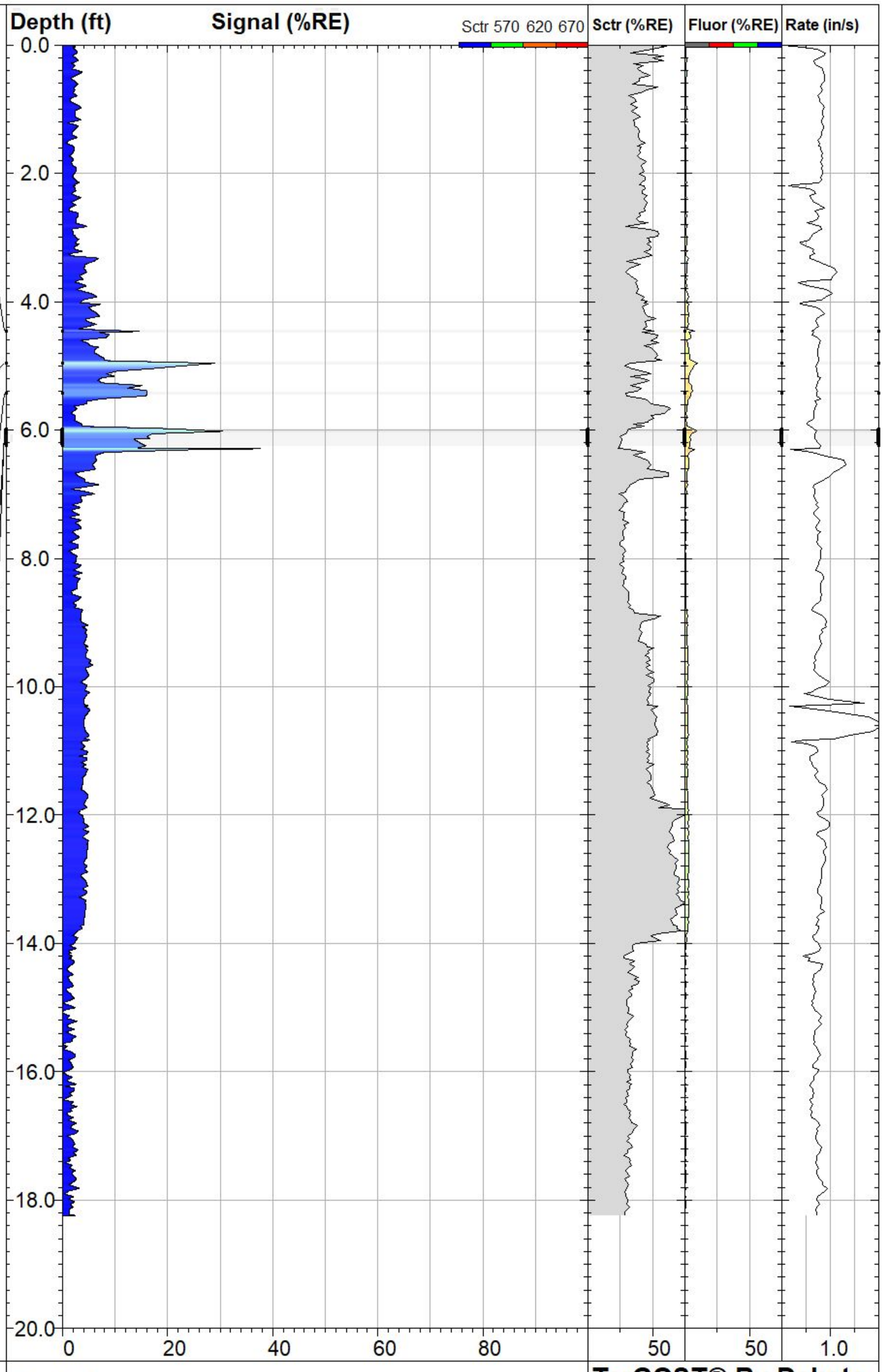
5.43 ft
16.0 %RE



5.98 - 6.24 ft
18.5 %RE (s 5.4)



6.02 ft
30.5 %RE



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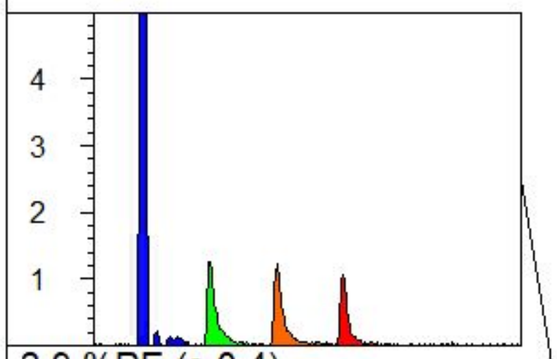
www.DakotaTechnologies.com

B-14

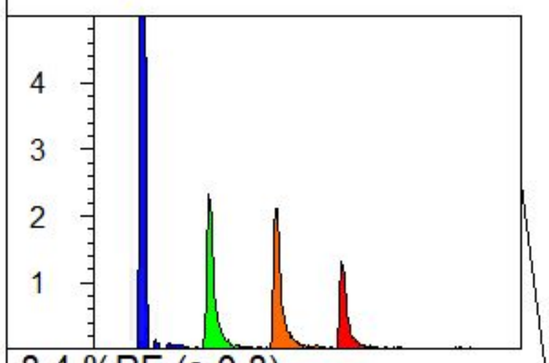
TarGOST® By Dakota
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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.24 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **38.2 %RE @ 6.29 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 09:34 MDT**

Callouts

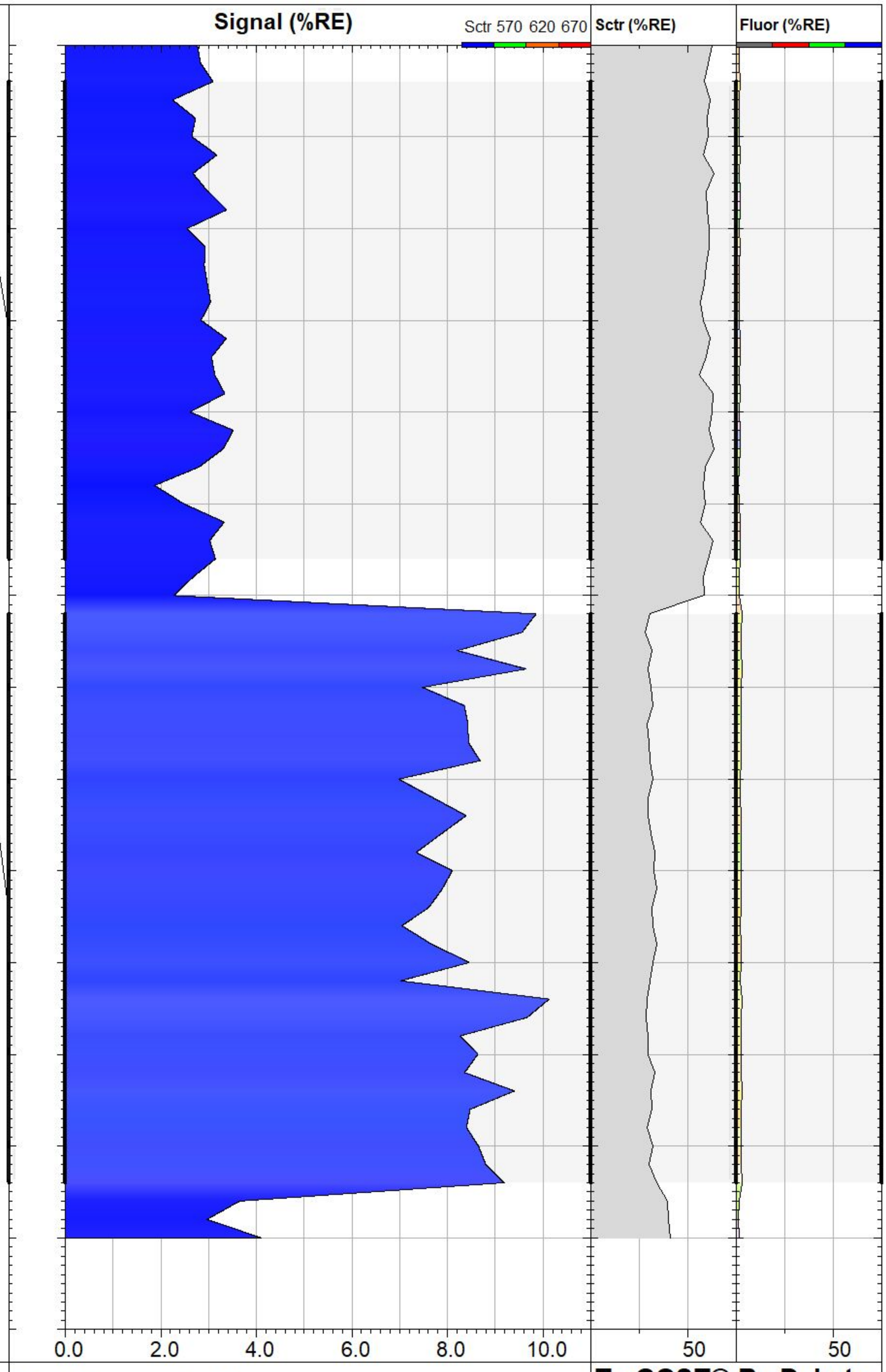


2.9 %RE (s 0.4)
clean sand



8.4 %RE (s 0.8)
emulation

ran emulation on dark gray, silty clay material with a motor oil? odor...found on tip of probe after trip out on B-15



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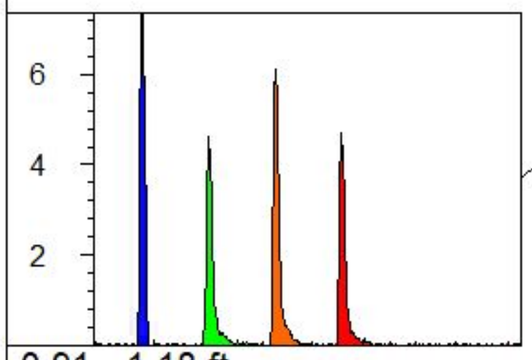
www.DakotaTechnologies.com

B-15 emulation

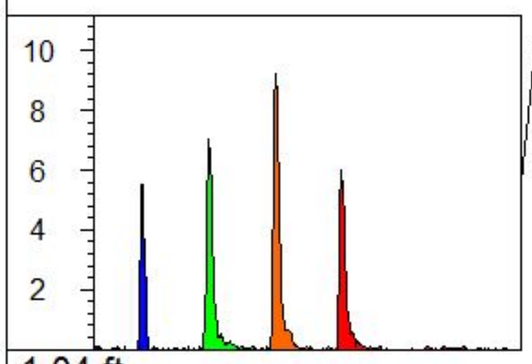
TarGOST® By Dakota
www.DakotaTechnologies.com

Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:*
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **10.1 %RE**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 10:25 MDT**

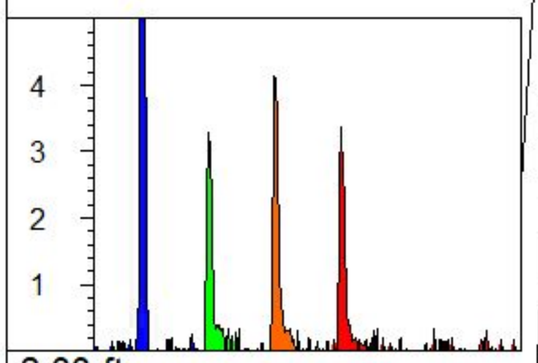
Callouts



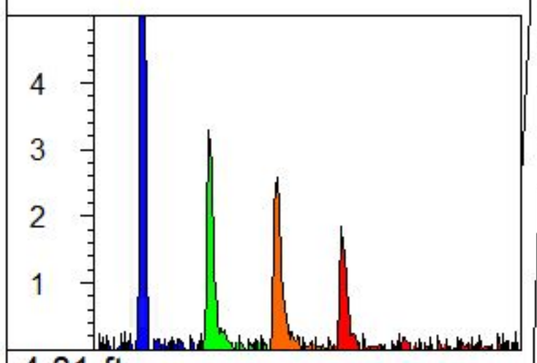
0.91 - 1.18 ft
33.6 %RE (s 31.4)



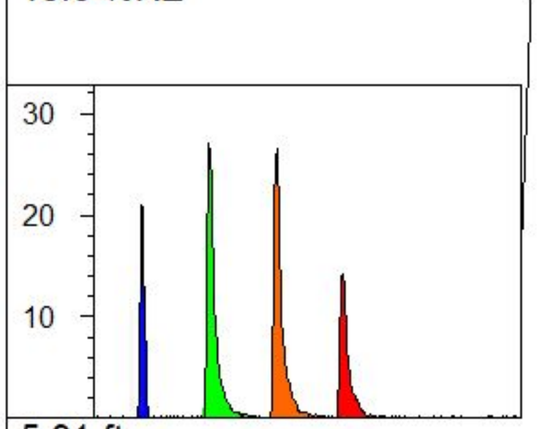
1.04 ft
110.9 %RE



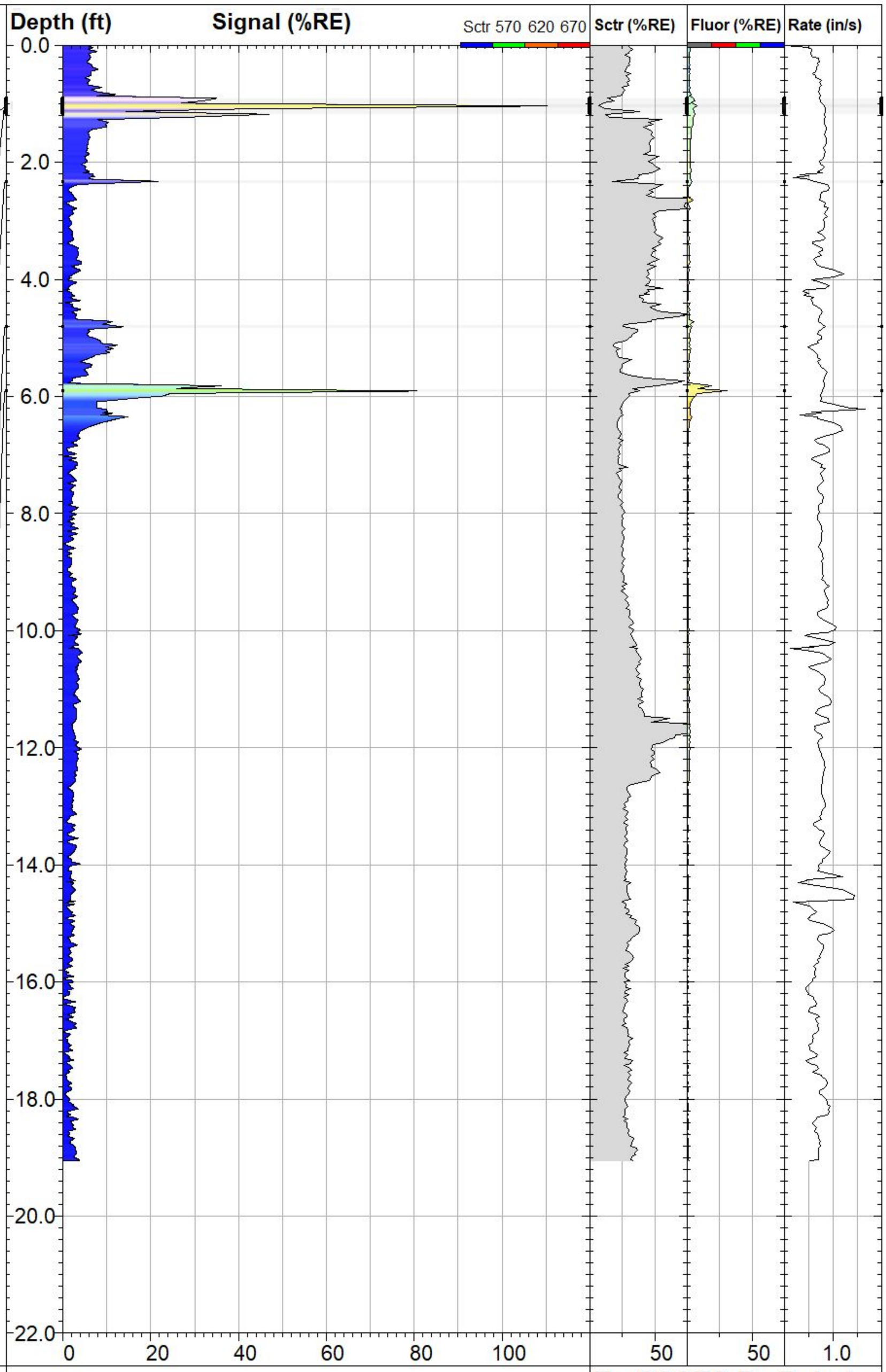
2.33 ft
22.1 %RE



4.81 ft
13.6 %RE



5.91 ft
81.2 %RE



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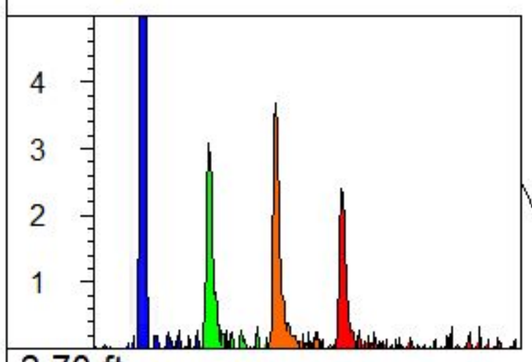
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B-15

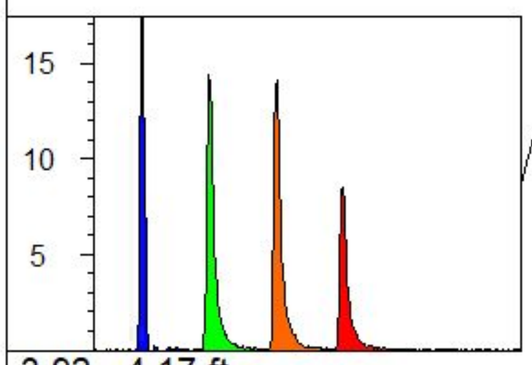
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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **19.06 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **110.9 %RE @ 1.04 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 10:03 MDT**

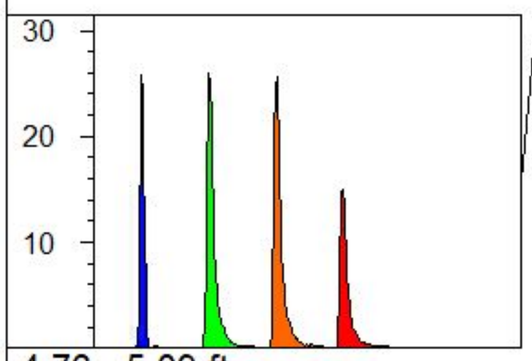
Callouts



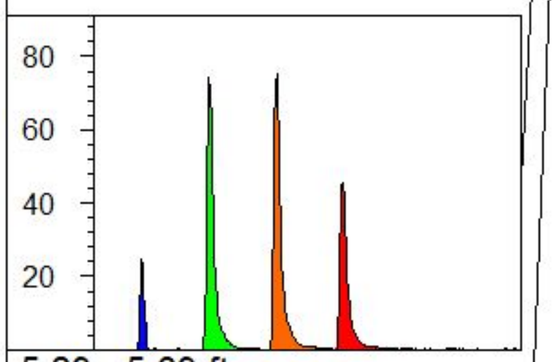
2.70 ft
11.0 %RE
?



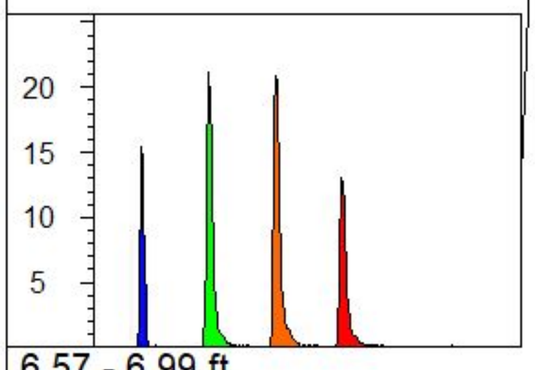
3.92 - 4.17 ft
42.9 %RE (s 7.9)



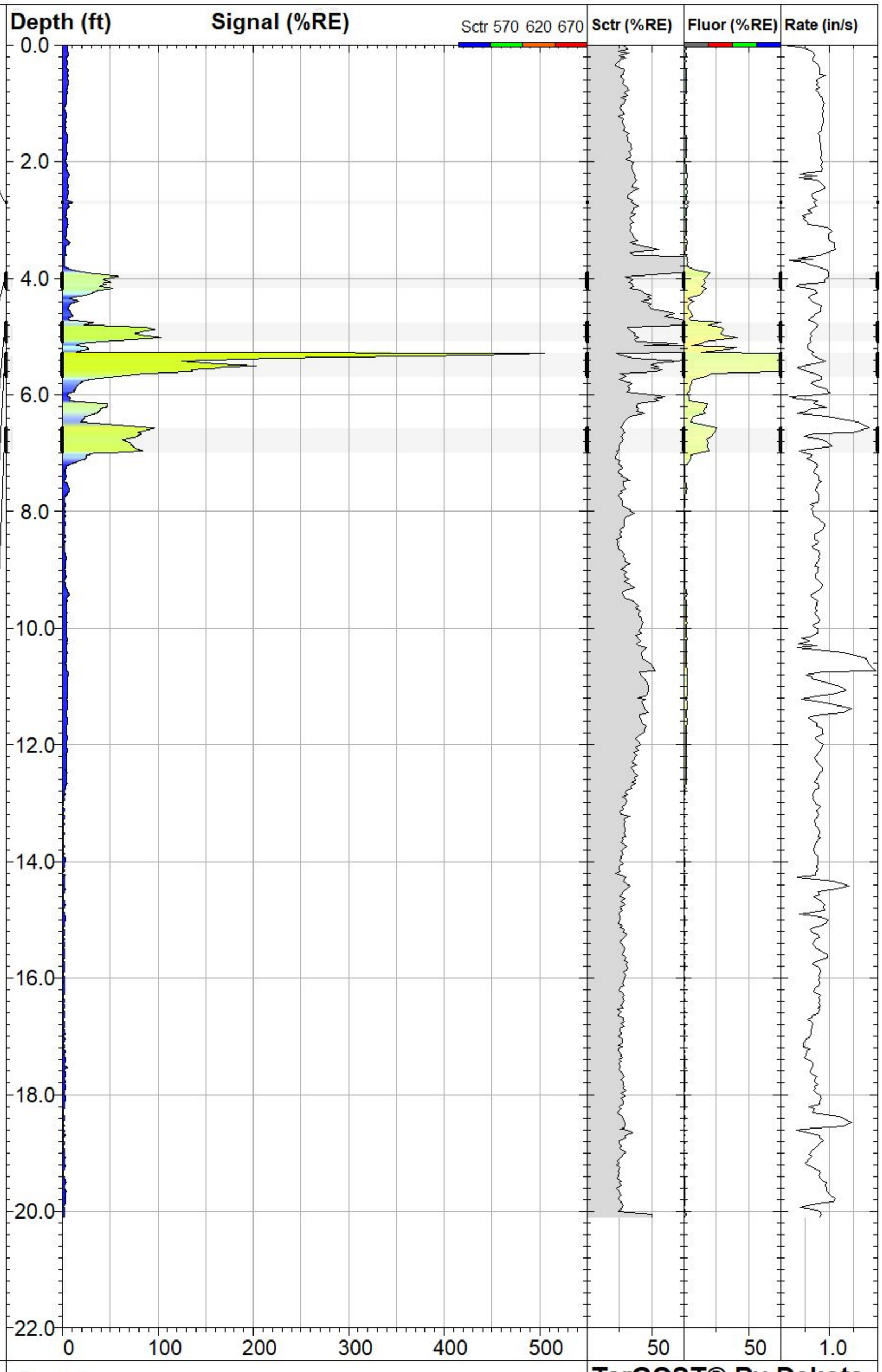
4.76 - 5.09 ft
60.8 %RE (s 28.3)



5.29 - 5.69 ft
178.2 %RE (s 129.6)



6.57 - 6.99 ft
77.7 %RE (s 9.1)



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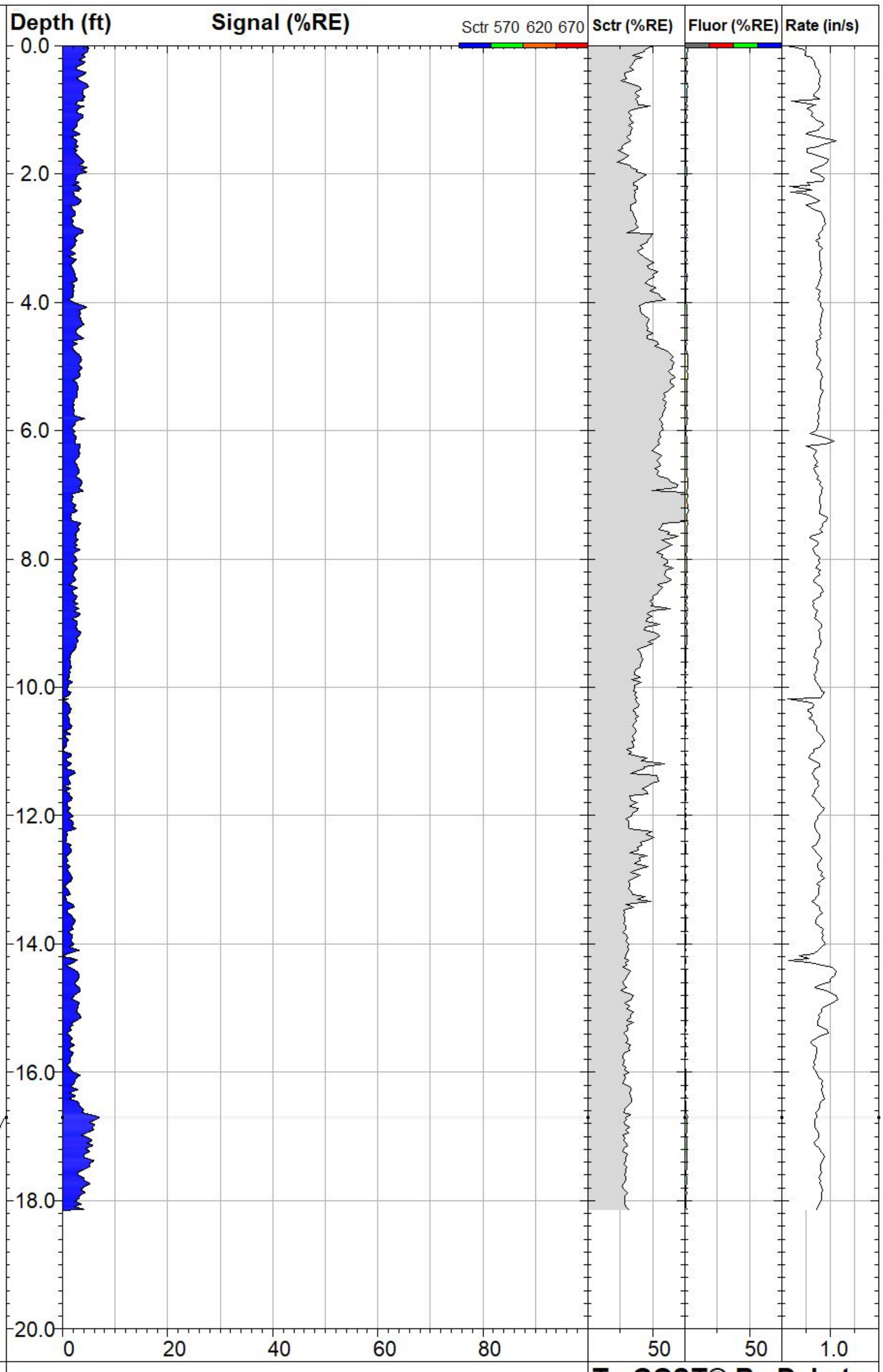
B-16

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **20.10 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **510.1 %RE @ 5.29 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 10:44 MDT**

Callouts

16.70 ft
7.1 %RE
?



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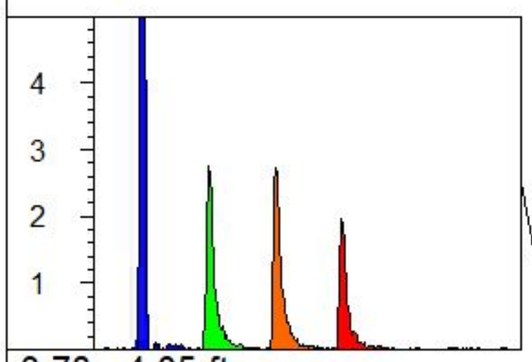
www.DakotaTechnologies.com

B-17

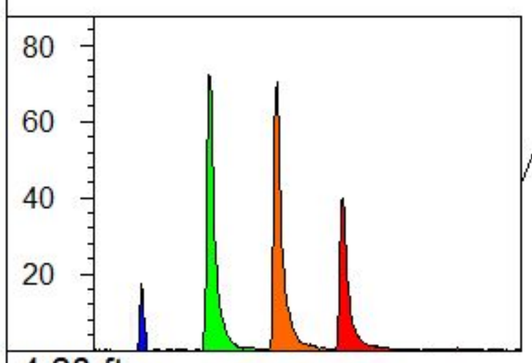
TarGOST® By Dakota
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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.15 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.1 %RE @ 16.70 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 11:15 MDT**

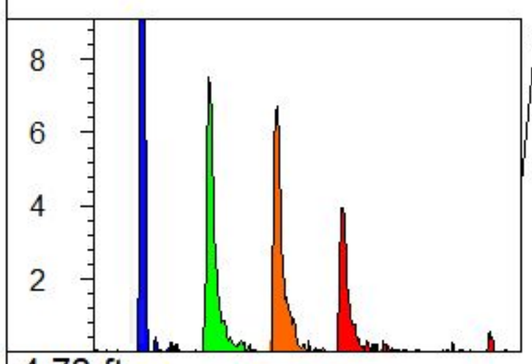
Callouts



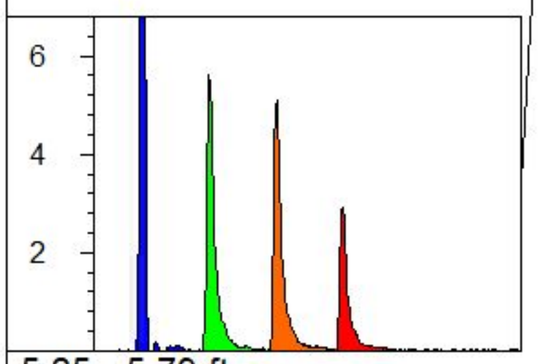
3.78 - 4.05 ft
13.2 %RE (s 2.1)



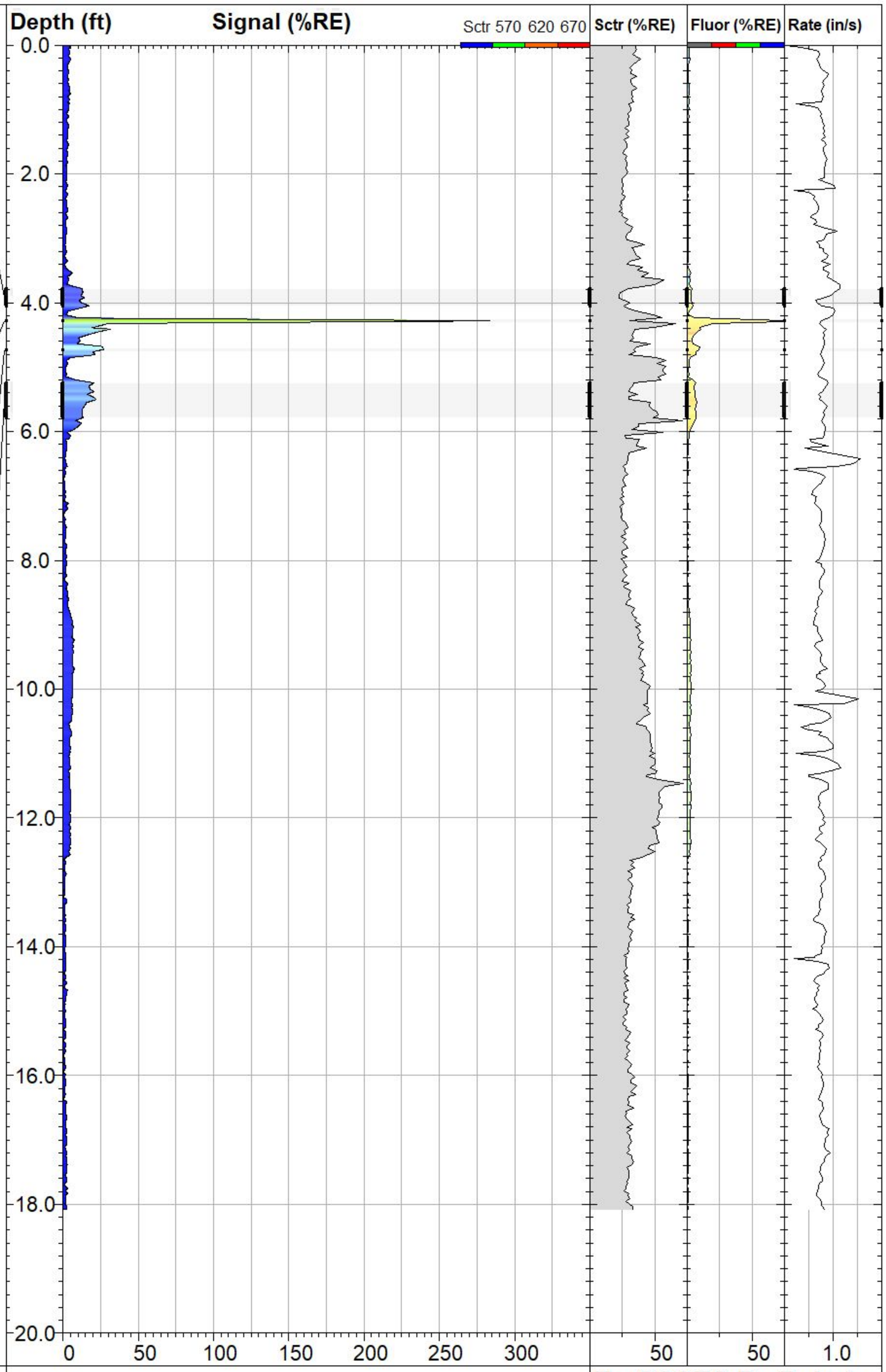
4.28 ft
287.9 %RE



4.72 ft
27.0 %RE



5.25 - 5.79 ft
16.0 %RE (s 3.3)



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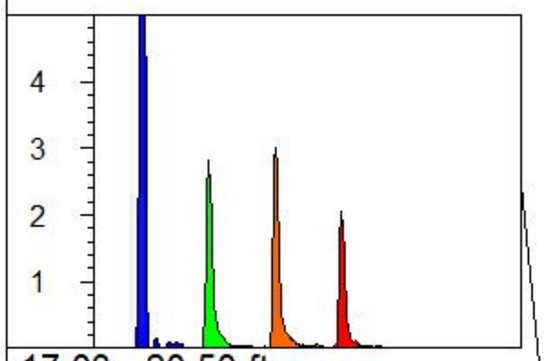
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B-18

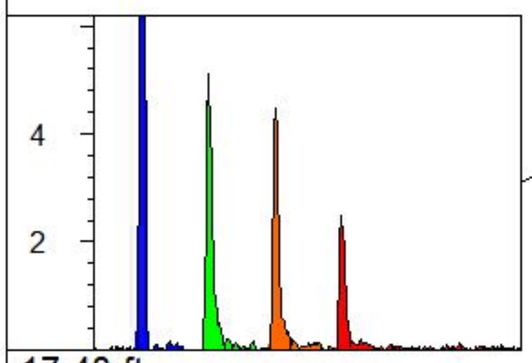
TarGOST® By Dakota
www.DakotaTechnologies.com

Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.08 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **287.9 %RE @ 4.28 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 11:42 MDT**

Callouts

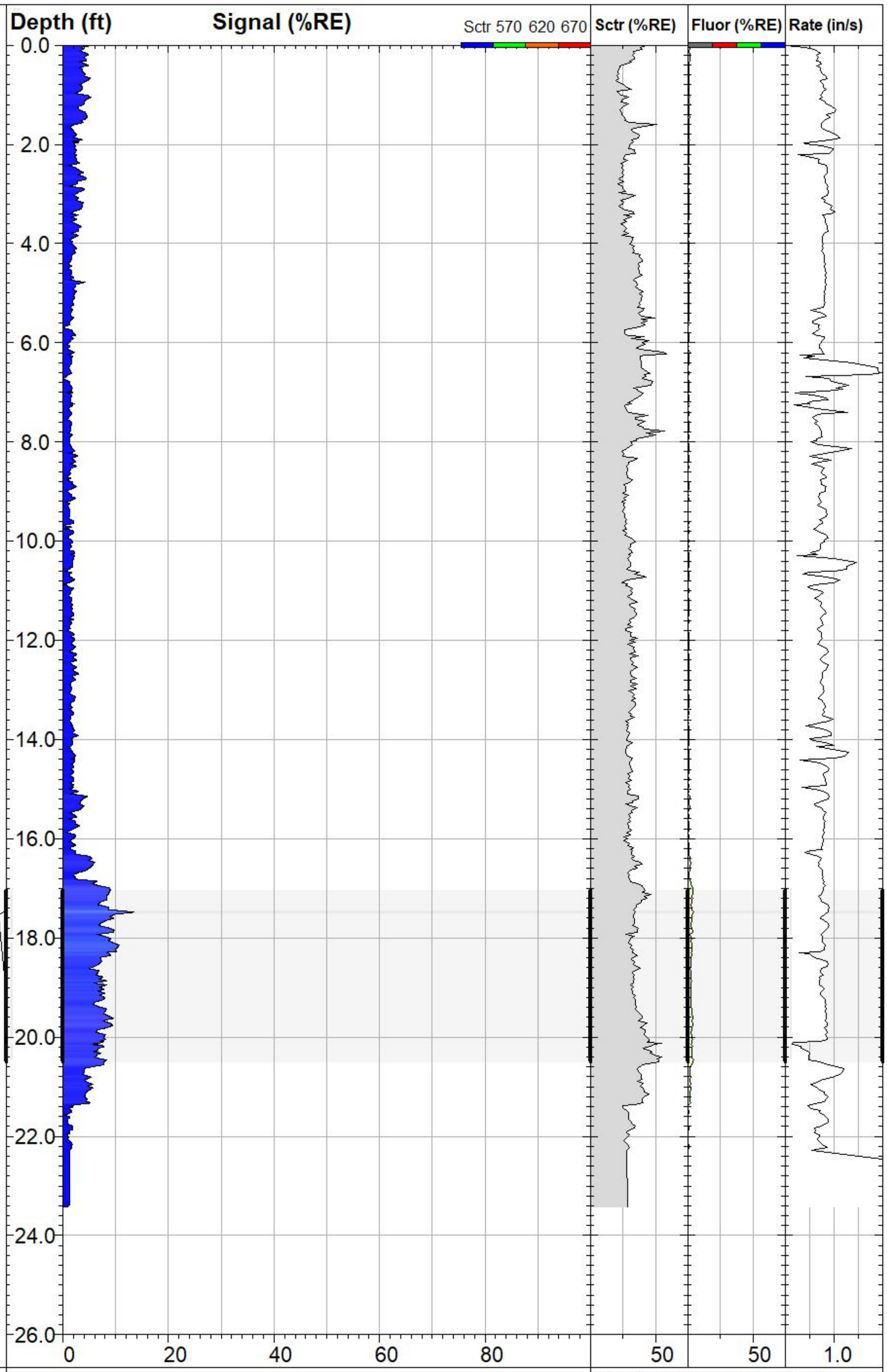


17.03 - 20.50 ft
7.7 %RE (s 1.3)
?



17.48 ft
13.5 %RE
?

end of boring at 22.22 feet, driller lifted rod before log was stopped, added extra erroneous foot to end of log



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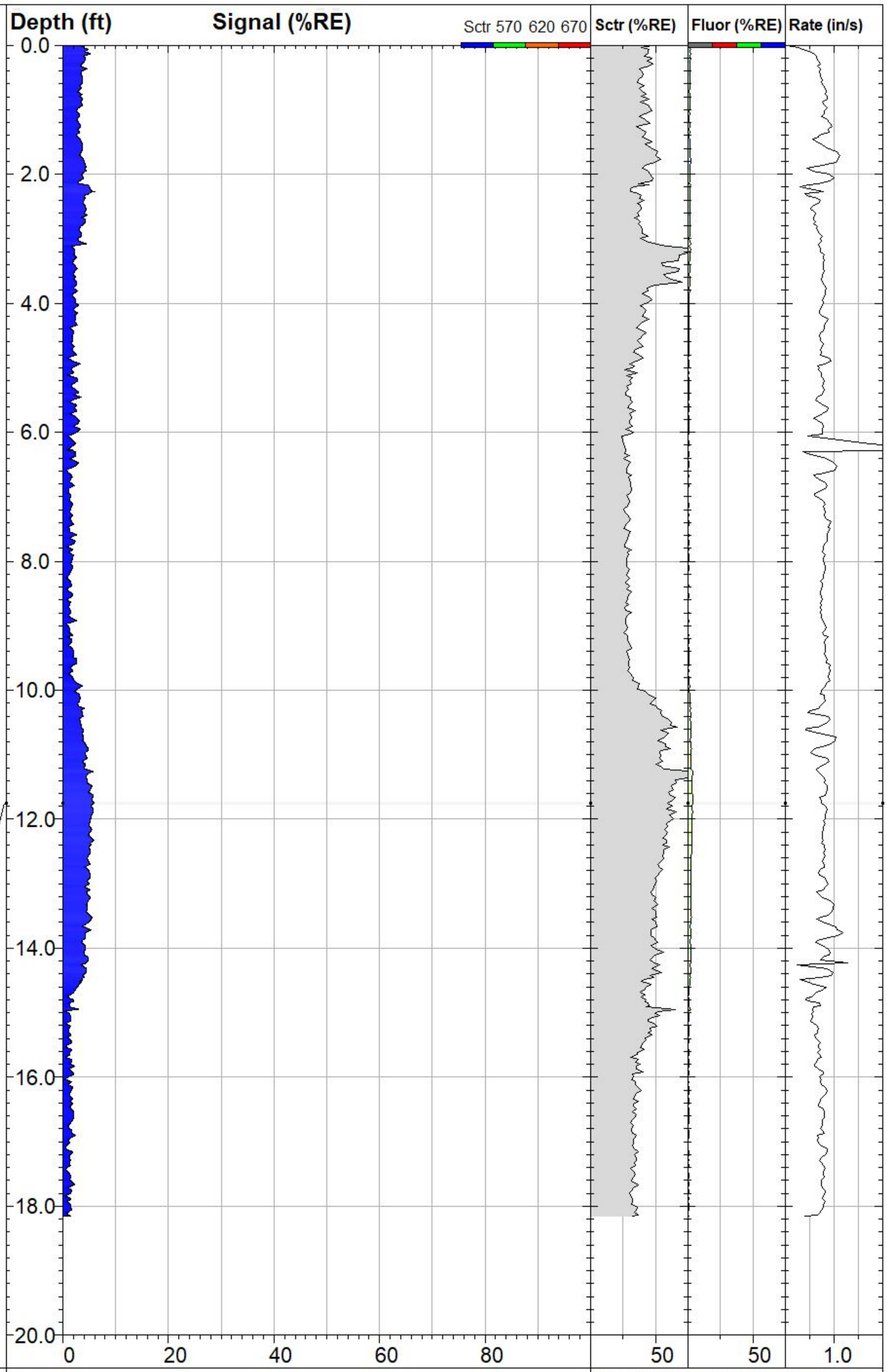
B-19

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **23.42 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **13.5 %RE @ 17.48 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 12:09 MDT**

Callouts





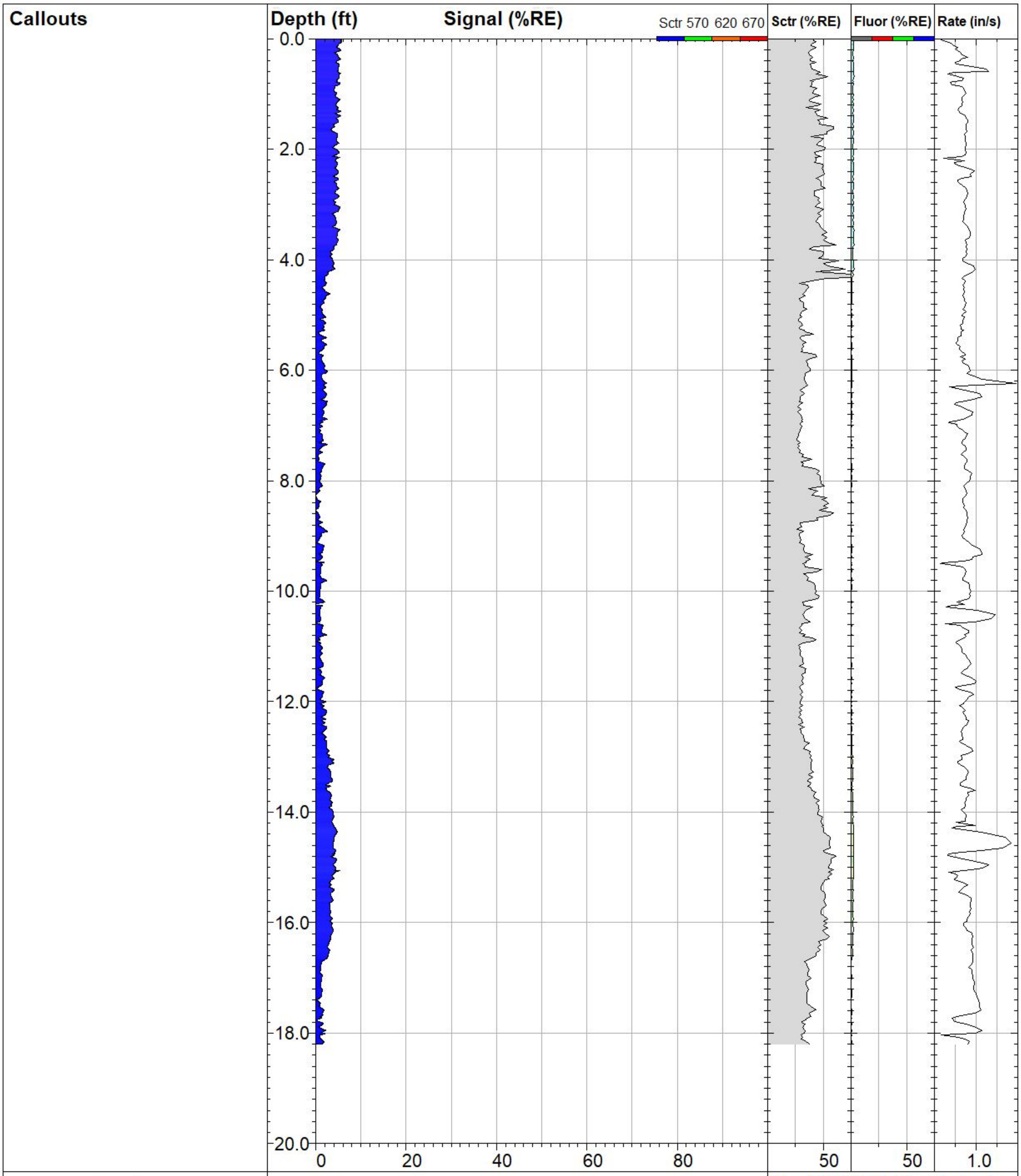
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B-20

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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.15 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.1 %RE @ 2.27 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 12:43 MDT**



DAKOTA TECHNOLOGIES

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B-21

TarGOST® By Dakota
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Site: **Former Creosote Site**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **18.20 ft**
Client / Job: **Geosyntec / 0122.18**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.7 %RE @ 0.07 ft**
Operator / Unit: **A. Nagle / TG1004**	*Elevation:* **Unavailable**	*Date & Time:* **2018-04-25 13:09 MDT**

APPENDIX C

BORING LOG

Boring/Well Number: DP-1 / PZ-1	Permit Number: 18AP190346	Location: 36.430254, -105.294542 Angel Fire, NM	
Site Name: Angel Fire LLC	Borehole Start Date: 4/26/2018	Borehole Start Time: 0921 ☑ AM ☐ PM	
	End Date: 4/26/2018	End Time: 1030 ☑ AM ☐ PM	
Environmental Contractor: Dakota Tech/JR Drilling	Geologist's Name: Stephen Parton	Environmental Technician's Name:	
Drilling Company: Geosyntec Consultants	Pavement Thickness: NA	Borehole Diameter (inches): 3" to 1"	Borehole Depth (feet): 20'
Drilling Method(s): HA/PD	Apparent Borehole DTW: 10.25'	Measured Well DTW: 11.15'	OVA (list model and check type): MiniRAE 3000 ☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) 1" temporary piezometer

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		1.5	6"		1	0-3.5 - sandy clay, stained black, moist, soft, non plastic, slight odor.	CL	M	
		12"		1.8	2'		2				
		12"					3				
		12"		3.1	4'		4	3.5-6.0 - clayey sand, red (10R 2.5/1), moist, firm, highley plastic, strong odor.	SC	M	
		12"					5				
		12"		1.9	6'		6				
		12"					7	6-7.25 - silty sand, tan (5YR 6/4), moist, soft, highly plastic	SM	M	
		12"		4.9	8'		8	7.25-8.5 - clay w/ sand, tan (5YR 6/4), moist, soft, highly plastic, trace gravel, light sweet odor,	CH	M	
		12"					9	8.5-10.25 - clay loam w/ sand & caliche, pink (2.5YR 7/3), moist, loose, nonplastic, strong odor.	CL	M	
		12"		2.0	10.25'		10				
		12"					11	10.25-10.5 - fine sand, tan (7.5YR 6/3), wet, soft, loose, strong odor. 10.5-11.5 - fine sand w/ clay, tan (7.5yr 6/2), moist, firm, highly plastic.	SW SC	W M	
		12"					12	11.5-11.75- sandy clay loam, grey (5YR 6/11), moist, firm, nonplastic, slight odor 11.75-12.75 - sandy clay, moist, soft, highly plastic	SP-SC CH	M M	
							13	12.75-13.25 - angular gravel, stained black, wet, non cemented, strong odor	GW	W	
4oz soil	13'	12"		0.9	13'	1,640	14	13.25-16.25 - clay, olive green (5Y 7/3), soft, moist, higly plastic, slight odor	CH	M	Soil: DP-1 13' 1026 4/26/18
		12"					15				
		12"					16				
		12"					17	16.25-20 - sandy clay, red (2.5YR 4/6), moist, firm, higly plastic, no odor.	CH	M	
		12"					18				
		12"					19				Water: PZ-1 1225 4/28/18
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-2 / PZ-2	18AP190346	36.430228, -105.294444 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/26/2018	Borehole Start Time:	1043	☑ AM ☐ PM
Angel Fire LLC	End Date:	4/26/2018	End Time:	1135	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	NA	12.53'	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) 1" temporary piezometer

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.8	6"		1	0-2.5 - sandy clay, brown (10R 3/2), dry, firm, medium plasticity, no odor or staining.	CL	D	
		12"		1.0	2'		2				
		12"					3	2.5-4.5 - clayey sand w/ gravel, reddish brown, dry, loose, no cementation, no odor.	SP-SC	D	
		12"		4.1	4'		4				
		6"					5	4.5-7.5 - NO RETURN void confirmed with ammount of sand used for fill.			
		0					6				
		0					7				
		6"		3.1	8'		8	7.5-8.25 - sandy clay loam, pink, dry, firm, non plasic, no odor or staining	SC	D	
		12"					9	8.25-8.75- fine sand w/ gravel, dry, moist, loose, no cementation, no odor or staining. 8.75-11.25- sandy clay, reddish brown, dry, firm, highly plastic, no odor or staining.	SW CH	D D	
		12"					10				
		12"					11				
		12"		2.0	12'		12	11.25-11.5-clayey sand w/gravel, tan, dry, loose, no odor or staining 11.5-12.25- fine sand, orange, dry, loose, no cementation, no odor or staining.	SC SW	D D	
		3"					13	12.25-14.0- NO RETURN void confirmed with sand used for fill.			
		0					14				
4oz soil	14'	12"				13	15	14.0-16.0- sandy gravel w/clay, reddish brown, slightly stained, moist, loose, faint odor.	GW-GC	M	Soil: DP-2 14' 1141 4/26/18
		12"		0.9	16'		16				
		12"					17	16.0-16.5 - fine sand, tan, moist, soft, no cementation, no odor or staining. 16.5-19.25- clay, olive green (5Y 7/3), moist, soft, highly plastic, no odor.	SW CH	M M	
		12"					18				
		12"					19				Water: PZ-2 1236 4/28/18
		12"		1.6	20'		20	19.25-19.5 Hard caliche lens 19.5-20.0 - sandy clay, red (2.5YR 4/6), moist, firm, highly plastic, no odor or staining.	CH	M	
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: DP-3 / PZ-3	Permit Number: 18AP190346		Location: 36.430325, -105.294448 Angel Fire, NM	
Site Name: Angel Fire LLC	Borehole Start Date:	4/26/2018	Borehole Start Time: 1141	☑ AM ☐ PM
	End Date:	4/26/2018	End Time: 1220	☐ AM ☑ PM
Environmental Contractor: Dakota Tech/JR Drilling	Geologist's Name: Stephen Parton		Environmental Technician's Name:	
Drilling Company: Geosyntec Consultants	Pavement Thickness: NA	Borehole Diameter (inches): 3" to 1"	Borehole Depth (feet): 20'	
Drilling Method(s): HA/PD	Apparent Borehole DTW: NA	Measured Well DTW: 10.40'	OVA (list model and check type): MiniRAE 3000	☐ FID ☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) 1" temporary piezometer

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-1.75 - sandy clay, brown (10R 3/2), dry, firm, low plasticity, slight odor, no staining.	CL	D	
		12"		3.2	2'		2	1.75-5.25- sandy clay, red (2.5YR 5/4), dry, firm, non plastic, no odor or staining.	CL	D	
		12"					3				
		12"		4.7	4'	0	4				
		12"					5				
		12"					6	5.25-7.0- sandy clay loam w/ caliche, tan to red (10YR 7/4), dry, loose, no odor or staining.	SP-SC	D	
4oz soil	7'	12"		2.8	7'		7				Soil: DP-3 7' 1215 4/26/18
		12"					8	7.0-10.5- clay w/ sand, red (5YR 4/3), moist, firm, med plasticity, no odor or staining.	CH	M	
		12"					9				
		12"					10				
		12"					11	10.5-11.25 - angular gravel, moist, loose, no odor or staining	GW	M	
		12"		1.9	12'		12	11.5-11.75-clay, red (5YR 3/3), moist, firm, med plasticity, no odor or staining. 11.75-12.0 - angular gravel, moist, loose, no odor or staining	CL GW	M M	
		12"					13	12.0-16.5 - clay, olive green (5Y 6/3), soft, moist, higly plastic, no odor, trace organic streaks	CH	M	
		12"					14				
		12"					15				
		12"					16				
		12"					17	16.5-20 - clay with sand, red (7.5YR 4/3), moist, soft, highly plastic, no odor or staining.	CH	M	
		12"					18				
		12"					19				Water: PZ-3 1240 4/28/18
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-4 / PZ-4	18AP190346	36.430256, -105.294621 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/26/2018	Borehole Start Time:	1305	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/26/2018	End Time:	1320	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s): HA/PD	Apparent Borehole DTW: 11.75'	Measured Well DTW: 10.42'	OVA (list model and check type): MiniRAE 3000	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) 1" temporary piezometer

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-3.5 - sandy clay, brown (10R 3/2), moist, soft, non plastic, no odor, slight surface staining.	CL	M	
		12"		0.9	2'		2				
		12"					3				
		12"		1.8	4'		4	3.5-4.5 - silty sand w/gravel, red (2.5YR 7/2), moist, soft, non cemented, slight odor, no staining.	SM	M	
		12"					5	4.5-7.5- sandy clay, red (5YR 6/4), moist, firm, med plastic, strong odor, no staining.	CH	M	
4oz soil	6'	12"		3.2	6'	1,763	6				Soil: DP-4 6' 1314 4/26/18
		12"					7				
		12"					8	7.5-11.75 - clayey sand, tan (5YR 6/4), moist, soft,med plastic, slight odor, no staining.	SC	M	
		12"					9				
		12"					10				
		12"					11				
		12"		1.7	12'		12	11.75-13.5- silty sand, tan (7.5YR 6/3), wet, soft, loose, strong odor.	SM	W	
		12"		3.1	13'		13				
		12"					14	13.5-13.75 - angular gravel, stained black, wet, non cemented, strong odor. 13.75-15.0 - clay, olive green (5Y 7/3), soft, moist, higly plastic, slight odor	GW CH	W M	
		12"					15	15.0-15.25- fine silty sand, light tan, dry, loose, no staining, no odor. 15.25-20.0- sandy clay, red (2.5YR 4/6), moist, firm, med plastic, no odor, no staining	SM CH	D M	
		12"		1.6	16'		16				
		12"					17				
		12"					18				
		12"					19				Water: PZ-4 1259 4/28/18
		12"		1.6	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-5 / PZ-5	18AP190346	36.430262, -105.294972 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/26/2018	Borehole Start Time:	1403	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/26/2018	End Time:	1430	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	NA	12.46'	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) 1" temporary piezometer

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-4.25 - sandy clay, red (2.5YR 4/3), dry, firm, med plastic, no odor or staining.	CL	D	
		12"		0.4	2'		2				
		12"					3				
		12"		0.7	4'		4				
		12"					5	4.25-4.75- caliche layer, dry, loose, no odor no staining. 4.75-6.5 clayey sand w/ gravel, red (2.5YR 7/2), dry,loose, no odor or staining.	SP-SC SP-SC	D D	
		12"					6				
		12"					7	6.5-10.5- clay, tan (10YR 6/3), dry, frim, med plastic, no odor or staining.	CH	D	
		12"		1.2	8'		8				
		12"					9				
		12"					10				
4oz soil	11'	12"				111	11	10.5-13.75 - clay, greyish green (GLEY 1 4/10GY), moist, soft, highly plastic, strong odor, slight staining.	CH	M	Soil: DP-5 11' 1436 4/26/18
		12"		9.8	12'		12				
		12"					13				
		12"					14	13.75-20.0 - silty clay, reddish brown (5YR 4/3), soft, moist, higly plastic, slight odor	CH	M	
		12"					15				
		12"		4.5	16'		16				
		12"					17				
		12"					18				
		12"					19	18.25-18.75 - clayey sand lens, loose, moist, no odor or staining.	SW-SM	M	Water: PZ-5 1251 4/28/18
		12"		2.1	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-6	18AP190346	36.430152, -105.294912 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/26/2018	Borehole Start Time:	1502	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/26/2018	End Time:	1539	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	10.25'	NA	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.2	6"		1	0-3.5 - sandy clay, brown (2.5YR 6/3), dry, soft, highly plastic, no odor or staining.	CH	D	
		12"		0.8	2'		2				
		12"					3				
		12"		1.1	4'		4	3.5-7.0 - sandy clay, reddish brown, (5YR 4/3), dry, firm, low plastic, no odor or staining.	CL	D	
		12"					5				
		12"					6	5.75-6.0- thin claiche lens			
		12"					7				
		12"		2.1	8'		8	7-8.5- silty sand, reddish orange (7.5YR 4/6), dry, loose, no odor or staining.	SM	D	
		12"					9	8.5-10.5 - clay, tan (10YR 4/3), dry, firm, highly plastic, no odor or staining.	CH	D	
		12"					10				
		12"					11	10.25-11.75- fine sand, tan (10YR 6/4), wet, soft, loose, slight odor, slight staining toward bottom of unit.	SW	W	
4oz soil	12'	12"		14.6	12'	166	12	11.75-12.75- angular gravel, stained black, wet, non cemented, wet, slight odor	GW	W	Soil: DP-6 12' 1515 4/26/18
	13'	12"					13	12.75-13.25- clay, olive green (5Y 3/2), soft, moist, higly plastic, slight odor, slight staining.	CH	M	
		12"					14	13.25-20.0 - clay, red (5YR 4/3), moist, soft, highly plastic, no odor or staining.	CH	M	
		12"					15				
		12"		0.1	16'		16				
		12"					17				
		12"					18				
		12"					19				
		12"		0.1	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-7	18AP190346	36.430394, -105.295031 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/26/2018	Borehole Start Time:	1558	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/26/2018	End Time:	1620	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	NA	NA	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0.0-3.0- sandy gravel, brown (5YR 4/2), dry, loose, no odor or staining.	GP	D	
		12"		0.4	2'		2				
		12"					3				
		12"		0.8	4'		4	3.0-3.75- sandy clay, reddish brown (2.5YR 4/3), dry, firm, highly plastic, no odor or staining 3.75-4.0- thin caliche layer	CH	D	
		12"					5	4.0-6.5- clayey sand w/ gravel, reddish brown (2.5YR 4/3), dry, loose, no odor or staining.	SC	D	
		12"		1.1	6'		6				
		12"					7	6.5-9.25- clay, yellowish brown (2.5Y 6/4), moist, soft, highly plastic, no odor no staining.	CH	M	
		12"		2.4	8'		8				
		12"					9				
4oz soil	10'	12"				529	10	9.25-9.5- thin caliche layer. 9.5-10.25- silty sand, grey (GLEY2 4/10B), moist, soft, loose, strong odor, slightly stained.	SM	M	Soil: DP-7 10' 1605 4/26/18
		12"					11	10.25-14.5- sandy clay, grey (GLEY2 4/10B), moist, soft, highly plastic, slight odor, no staining.	CH	M	
		12"		1.9	12'		12				
		12"					13				
		12"					14				
		12"					15	14.5-20.0- sandy silt, reddish brown, moist, soft, non plastic, no odor or staining.	ML	M	
		12"		0.8	16'		16				
		12"					17				
		12"					18				
		12"					19				
		12"		0.2	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-8	18AP190346	36.430255, -105.294742 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/26/2018	Borehole Start Time:	1639	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/26/2018	End Time:	1658	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	13.5'	NA	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		1.5	6"		1	0-3.5- sandy clay, brown (5YR 3/2), dry, firm, highly plastic, no odor or staining.	CH	D	
		12"		0.0	2'		2				
		12"					3				
		12"		0.2	4'		4	3.5-6.5- sandy gravel w/ caliche, reddish tan (5YR 4/4), dry, loose, no odor or staining, interbedded thin clay lenses.	GP	D	
		12"					5				
		12"		0.4	6'		6				
		12"					7	6.5-7.5- sandy clay, reddish brown (5YR 4/3), dry, firm, low plastic, no odor or staining.	CL	D	
		12"		0.7	8'		8	7.5-8.75- poorly sorted sand, light brown (7.5YR 6/4), dry, poorly cemented, no odor or staining.	SP	D	
		12"					9	8.75-10.75- sandy clay, reddish brown (5YR 4/3), dry, firm, non plastic, no odor, no staining.	CL	D	
		12"					10				
		12"					11	10.75-13.25- fine grained silty sand, reddish brown (5YR 5/4), moist, soft, loose, no odor or staining.	SM	M	
		12"		1.1	12'		12				
		12"					13				
4oz soil	14'	12"		2.1	14'	88	14	13.25-13.5- clay lens, stained grey, moist, slight odor. 13.5-14.75- fine grained sand, stained grey, wet, loose, strong odor.	CL SW	M W	Soil: DP-8 14' 1700 4/26/18
		12"					15	14.75-20.0- clay w/ sand, reddish brown (5YR 4/4), moist, higly plastic, no odor or staining, interbedded thin lenses of sand and silt.	CH	M	
		12"		1.4	16'		16				
		12"					17				
		12"					18				
		12"					19				
		12"		0.2	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: DP-9 / PZ-6	Permit Number: 18AP190346		Location: 36.430208, -105.294627 Angel Fire, NM		
Site Name: Angel Fire LLC	Borehole Start Date:	4/27/2018	Borehole Start Time: 0859	☑ AM ☐ PM	
	End Date:	4/27/2018	End Time: 0920	☑ AM ☐ PM	
Environmental Contractor: Dakota Tech/JR Drilling	Geologist's Name: Stephen Parton		Environmental Technician's Name:		
Drilling Company: Geosyntec Consultants	Pavement Thickness: NA	Borehole Diameter (inches): 3" to 1"	Borehole Depth (feet): 20'		
Drilling Method(s): HA/PD	Apparent Borehole DTW: 10.0	Measured Well DTW: 10.20'	OVA (list model and check type): MiniRAE 3000	☐ FID ☑ PID	

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) 1" temporary piezometer

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"			6"		1	0-4.25- sandy clay, brown (2.5yr 4/3), moist, soft, highly plastic, no odor, no staining.	CH	M	
		12"			2'		2				
		12"					3				
		12"			4'		4				
		12"					5	4.25-6.25- silty sand w/ gravel, brown (7.5YR 4/4), moist, loose, no odor or staining	SP-SM	M	
		12"					6				
		12"					7	6.25-7.5- sandy clay, brown (2.5YR 4/3), moist, soft, highly plastic, no odor, no staining	CH	M	
		12"			8'		8	7.5-9.0- sandy silt, reddish brown (5YR 4/4), moist, very soft, highly plastic, no odor or staining.	ML	M	
		12"					9				
		12"					10	9.0-10.0- coarse silty sand, reddish brown (5YR 4/4), moist, soft, non cemented, no odor or staining.	SM	M	
		12"					11	10.0-12.5- coarse grained sand w/ gravel, wet, non cemented, fining upward, stained black from 11.25-12.25, strong odor.	SW	W	
4oz soil	12'	12"		15.5	12'	602	12				Soil: DP-9 12' 0915 4/27/18
		12"					13	12.5-15.25- clay, olive green (GLEY1 6/10Y), moist, firm, highly plastic, no odor or staining.	CH	M	
		12"					14				
		12"					15				
		12"		1.2	16'		16	15.25-15.5- sand w/ caliche, white (10YR 8/8), dry, loose, no odor or staining. 15.5-17.75- sandy clay, reddish brown (5YR 4/4), moist, firm, highly plastic, no odor or staining.	SW CH	D M	
		12"					17				
		12"					18	17.75-20.0- clayey sand, reddish brown (5YR 4/3), moist, soft, non cemented, no odor or staining.	SC	M	
		12"					19				Water: PZ-6 1311 4/28/18
		12"		0.4	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: DP-10 / PZ-7	Permit Number: 18AP190346	Location: 36.429458, -105.294586 Angel Fire, NM	
Site Name: Angel Fire LLC	Borehole Start Date: 4/27/2018 End Date: 4/27/2018	Borehole Start Time: 1016 ☑ AM ☐ PM End Time: 1032 ☑ AM ☐ PM	
Environmental Contractor: Dakota Tech/JR Drilling	Geologist's Name: Stephen Parton	Environmental Technician's Name:	
Drilling Company: Geosyntec Consultants	Pavement Thickness NA	Borehole Diameter (inches): 3" to 1"	Borehole Depth (feet): 20'
Drilling Method(s): HA/PD	Apparent Borehole DTW: NA	Measured Well DTW: 6.31'	OVA (list model and check type): MiniRAE 3000 ☐ FID ☑ PID
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other			
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe) 1" temporary piezometer			

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-2.5- sandy clay, brown (5YR 3/2), dry, firm, non plastic, no odor or staining.	CL	D	
		12"		0.0	2'		2				
		12"					3	2.5-3.25- clayey sand, dark brown (5YR 2.5/2), dry, loose, no odor or staining.	SC	D	
		12"		0.0	4'		4	3.25-5.5- sandy clay, brown (5YR 4/4), dry, firm, low plastic, no odor or staining	CL	D	
		12"					5				
		12"		0..	6'		6	5.5-6.25- silty clay, brown (7.5YR 4/4), moist, soft, non plastic, no odor or staining.	CL	M	
		12"					7	6.25-6.75- sandy silt, brown, moist, loose, no odor or staining. 6.75-10.0- silty clay, brown (7.5YR 4/3), moist, very soft, highly plastic, no odor or staining.	ML CH	M	
		12"		0.1	8'		8	7.75-8.0- thin caliche lens		M	
		12"					9			M	
		12"					10				
		12"					11	10-18.25- silt, brown (7.5YR 4/3), moist, very soft, loose, no odor or staining. Thin interbedded lenses (<.25') of sands/clays throughout.	ML	M	
		12"		0.0	12'		12				
		12"					13				
		12"					14				
		12"					15				
		12"		0.1	16'		16				
		12"					17				
		12"					18	17.75-18.25- silt, tan, moist, loose, no odor or staining.	ML	M	
		12"					19	18.25-20.0- clay, dark greenish grey (GLEY2 4/10BG), moist, firm, highly plastic, slight organic odor, no staining.	CH	M	Water: PZ-7 1330 4/28/18
4oz soil	20'	12"		0.4	20'	0	20				Soil: DP-10 20' 1035 4/27/18
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: DP-11 / PZ-8	Permit Number: 18AP190346		Location: 36.429642, -105.294492 Angel Fire, NM	
Site Name: Angel Fire LLC	Borehole Start Date: 4/27/2018	End Date: 4/27/2018	Borehole Start Time: 1122 ☑ AM ☐ PM	End Time: 1208 ☐ AM ☑ PM
Environmental Contractor: Dakota Tech/JR Drilling	Geologist's Name: Stephen Parton		Environmental Technician's Name:	
Drilling Company: Geosyntec Consultants	Pavement Thickness: NA	Borehole Diameter (inches): 3" to 1"	Borehole Depth (feet): 20'	
Drilling Method(s): HA/PD	Apparent Borehole DTW: NA	Measured Well DTW: 4.35'	OVA (list model and check type): MiniRAE 3000 ☐ FID ☑ PID	
Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☑ Backfill ☐ Stockpile ☐ Other				
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☐ Backfill ☑ Other (describe)			1" temporary piezometer	

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-2.5- sandy clay, brown (5YR 3/2), dry, firm, non plastic, no odor or staining.	CL	D	
		12"		0.9	2'		2				
		12"					3	2.5-3.75- sandy clay, brown (5YR 2.5/2), moist, soft, med plastic, slight staining, strong odor	SC	M	
		12"		4.8	4'	1,487	4	3.75-6.25- coarse grained sand and gravel, moist, heavily stained black, loose, strong odor.	GW	M	
4oz soil	5'	12"					5				Soil: DP-11 5' 1128 4/27/18
		12"					6	6.25-6.75- solid caliche layer 6.75-7.75- silty sand, dark brown and stained, moist, very fine grained, slight odor.	SP-SM	M	
		12"					7				
		12"		0.4	8'		8	7.75-13.0- clay, greenish grey (GLEY1 5/10GY), moist, firm, highly plastic, stained at top of interval where in contact with above unit, slight to no odor.	CH	M	
		12"					9				
		12"					10				
		12"					11				
		12"		0.1	12'		12				
		12"					13				
		12"					14	13.0-20.0- silt, brown (7.5YR 4/3), moist, very soft, non plastic, no odor or staining, thin lenses (<.25'), of varying sands and clays throughout.	ML	M	
		12"					15				
		12"		0.0	16'		16				
		12"					17				
		12"					18				
		12"					19				Water: PZ-8 1321 4/28/18
		12"		0.0	20'		20				
							21	20.0 TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-12	18AP190346	36.429722, -105.294578 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/27/2018	Borehole Start Time:	1228	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/27/2018	End Time:	1259	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	NA	NA	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-2.0- sandy clay, brown (5YR 3/2), dry, firm, non plastic, no odor or staining	CL	D	
		12"		0.2	2'		2				
		12"					3	2.0-3.5- sandy clay, yellow (10YR 5/4), moist, soft, highly plastic, no odor or staining.	CH	M	
4oz soil	4'	12"		1.0	4'	21	4	3.5-4.5- well graded coarse sand/fine angular gravel, white to clear, moist, loose, no odor or staining.	SW/GW	M	Soil: DP-12 4' 1235 4/27/18
		12"					5	4.5-10.25- clay, greyish green (GLEY1 5/5GY), moist, soft, highly plastic, no odor or staining.	CH	M	
		12"					6				
		12"					7				
		12"		0.6	8'		8				
		12"					9				
		12"					10				
		12"					11	10.25-20.0- sandy silt, brown (7.5YR 4/3), moist, very soft, non plastic, no odor or staining, thin lenses (<.25'), of varying sands and clays throughout.	ML	M	
		12"		0.1	12'		12				
		12"					13				
		12"					14				
		12"					15	14.75-15.25- white sand and caliche layer, dry, loose, no odor or staining	SW	D	
		12"		0.0	16'		16				
		12"					17				
		12"					18				
		12"					19				
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-13	18AP190346	36.430001, -105.294473 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/27/2018	Borehole Start Time:	1307	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/27/2018	End Time:	1342	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	7.0'	NA	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-2.5- sandy clay, brown (5YR 3/2), dry, firm, non plastic, no odor or staining	CL	D	
		12"		0.1	2'		2				
		12"					3	2.5-5.0- sandy clay, brown (7.5YR 5/3), moist, very soft, non plastic, no odor or staining	CL	M	
		12"		0.3	4'		4				
		12"					5				
		12"					6	5.0-7.0- silty sand, brown (7.5YR 5/3), moist, very soft, med plastic, no odor or staining	SM	M	
		12"					7				
		12"		0.8	8'		8	7.0-10.5- coarse grained sand w/ rounded gravel, grey, wet, loose, no odor or staining.	SW	W	
		12"					9				
4oz soil	10'	12"				14	10				Soil: DP-13 10' 1312 4/27/18
		12"					11	10.5-13.5- clay, olive green (5Y 5/2), moist, soft, highly plastic, no odor or staining.	CH	M	
		12"		0.8	12'		12				
		12"					13				
		12"					14	13.5-20.0- sandy silt, reddish brown (5YR 4/4), moist, very soft, non plastic, no odor or staining. Thin interbedded lenses (<.25') of sands/clays throughout.	ML	M	
		12"					15				
		12"		0.0	16'		16				
		12"					17				
		12"					18				
		12"					19				
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-14	18AP190346	36.429959, -105.294273 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/27/2018	Borehole Start Time:	1355	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/27/2018	End Time:	1427	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s): HA/PD	Apparent Borehole DTW: NA	Measured Well DTW: NA	OVA (list model and check type): MiniRAE 3000	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-2.5- sandy clay, brown (5YR 3/2), dry, firm, non plastic, no odor or staining	CL	D	
		12"		1.1	2'		2				
		12"					3	2.5-3.75- sandy clay, brown (7.5YR 5/3), moist, very soft, med plastic, no odor or staining	CL	M	
		12"		2.7	4'		4	3.75-6.25- sandy gravel, grey, moist, loose, slight odor, no staining	GW	M	
		12"					5				
4oz soil	6'	12"					6				Soil: DP-14 6' 1405 4/27/18
		12"				539	7	6.25-6.5- clay, dark blue (GLEY2 3/5B), moist, soft, med plastic, slight odor, no staining 6.5-7.25- coarse grained sand w/ gravel and caliche, moist, loose, heavily stained black with	CH SP	M M	
		12"		3.4	8'		8	7.5-8.25- sandy silt, olive green (5Y 4/2), very soft, moist, med plastic, no odor or staining. 8.25- 11.0- clay, greenish grey (GLEY1 5/10GY), moist, soft, highly plastic, no odor or staining.	MH CH	M M	
		12"					9				
		12"					10				
		12"					11				
		12"		0.9	12'		12	11.0-14.75- clay, olive green (5Y 5/2), moist, soft, highly plastic, no odor or staining.	CH	M	
		12"					13				
		12"					14				
		12"					15	14.75-20.0- sandy silt, reddish brown (5YR 4/4), moist, very soft, non plastic, no odor or staining. Thin interbedded lenses (<.25') of sands/clays throughout.	ML	M	
		12"		0.2	16'		16				
		12"					17				
		12"					18				
		12"					19				
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-15	18AP190346	36.429670, -105.294126 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/27/2018	Borehole Start Time:	1443	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/27/2018	End Time:	1509	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	NA	NA	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☑ Drum ☐ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-1.75- sandy clay, reddish brown (5YR 3/2), dry, firm, non plastic, no odor or staining	CL	D	
		12"		0.0	2'		2	1.75-3.25- silty sand, reddish brown (5YR 4/3), dry, loose, no odor, no staining.			
		12"					3	3.25-5.25- fine grained sand, yellow (2.5Y 8/2), dry, loose, trace caliche, no odor or staining.	SW	D	
		12"		0.2	4'		4				
		12"					5				
		12"					6	5.25-6.0-silty clay, brown (7.5YR 5/3), moist, very soft, trace gravel, highly plastic, no odor or staining	CH	M	
4oz soil	7'	12"				1,626	7	6.0-9.25- silty sand, dark brown (7.5YR 4/3), moist,loose, slight staining (black streaking), slight odor.	CH SP	M M	Soil: DP-15 7' 1450 4/27/18
		12"		0.8	8'		8	7.5-8.25- sandy silt, olive green (5Y 4/2), very soft, moist, med plastic, no odor or staining. 8.25-11.0- clay, greenish grey (GLEY1 5/10GY), moist, soft, highly plastic, no odor or staining.	MH CH	M M	
		12"					9				
		12"					10	9.25-9.75- clay, greenish grey (GLEY1 5/10GY), moist, soft, highly plastic, no odor or staining 9.75-14.5- clay, olive green (5Y 5/2), moist, soft, highly plastic, no odor or staining.	CH CH	M M	
		12"					11				
		12"		0.0	12'		12				
		12"					13				
		12"					14				
		12"					15	14.5-20.0- sandy silt, reddish brown (5YR 4/4), moist, very soft, non plastic, no odor or staining. Thin interbedded lenses (<.25') of sands/clays throughout.	ML	M	
		12"		0.0	16'		16				
		12"					17				
		12"					18				
		12"					19				
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-16	18AP190346	36.429638, -105.294070 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/27/2018	Borehole Start Time:	1524	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/27/2018	End Time:	1551	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	NA	NA	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-2.75- sandy clay, reddish brown (5YR 3/2), dry, firm, non plastic, no odor or staining	CL	D	
		12"		0.0	2'		2	2.75-3.25- silty sand, reddish brown (5YR 4/3), dry, loose, no odor, no staining.	SW	D	
		12"					3	3.25-6.75- sand w/ gravel, reddish brown (5YR 4/4), dry, loose, no odor or staining.	SW	D	
		12"		0.0	4'		4				
		12"					5				
		12"					6				
		12"					7	6.75-7.5- silty clay, dark brown (5YR 3/1), moist, very soft, trace sand, highly plastic, no odor or staining	CH	M	
4oz soil	8'	12"		0.0	8'	0	8	7.5-10.5- sandy silt, dark brown (5YR 2.5/2), moist, very soft, non plastic, no odor or staining.	ML	M	Soil: DP-16 8' 1534 4/27/18
		12"					9				
		12"					10				
		12"					11	10.5-11.75- loamy sand w/ gravel, light brown, moist, loose, no odor or staining.	SC	M	
		12"		0.0	12'		12	11.75-15.25- clay, greenish grey (GLEY1 6/5GY), moist, soft, highly plastic, no odor or staining.	CH	M	
		12"					13				
		12"					14				
		12"					15				
		12"		0.0	16'		16	15.25-15.5- caliche lens, white, loose, no odor or staining. 15.5-17.25- clay, light grey (5Y 7/2), moist, soft, highly plastic, no odor or staining.	CH	M	
		12"					17				
		12"					18	17.25-20.0- sandy silt, reddish brown (5YR 4/4), moist, very soft, non plastic, no odor or staining.	ML	M	
		12"					19				
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-17	18AP190346	36.430172, -105.295038 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/27/2018	Borehole Start Time:	1621	☐ AM ☑ PM
Angel Fire LLC	End Date:	4/27/2018	End Time:	1657	☐ AM ☑ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	18.0	NA	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-2.0- sandy clay, reddish brown (5YR 3/2), dry, firm, non plastic, no odor, no staining	CL	D	
		12"		0.0	2'		2				
		12"					3	2.0-2.75-sandy clay, dark brown (7.5YR 2.5/1), moist, soft, med plastic, no odor or staining 2.75-4.5- silty clay, reddsish brown (5YR 4/3), moist, soft, non plastic, no odor or staining	CL CL	M M	
		12"		0.0	4'		4				
		12"					5	4.5-8.25- sandy clay, reddish brown, (5YR 4/3), dry, firm, low plastic, no odor or staining, interbedded caliche and sand lenses, each <.5" in thickness	CL	D	
		12"					6				
		12"					7				
4oz soil	8'	12"		0.0	8'	0	8				Soil: DP-17 8' 1636 4/27/18
		12"					9	8.25-12.75- clay, olive green (5Y 6/3), moist, soft, highly plastic, no odor or staining.	CH	M	
		12"					10				
		12"					11				
		12"		0.0	12'		12				
		12"					13	12.75-13.0- thin caliche lens			
		12"					14	13.0-17.25- sandy silt, brown (7.5YR 4/4), moist, soft, non plastic, no odor or staining.	ML	M	
		12"					15				
		12"		0.0	16'		16				
		12"					17				
		12"					18	17.25-18.0- clay, olive green (5Y 6/3), moist, soft, highly plastic, no odor or staining.	CH	M	
		12"					19	18.0-18.5- silty sand, reddish brown (5YR 4/4), wet, loose, no odor or staining 18.5-20.0- clayey silt w/ sand, reddish brown, moist, soft, highly plastic, no odor or staining.	SM MH	W M	
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-18	18AP190346	36.430265, -105.295142	Angel Fire, NM

Site Name:	Borehole Start Date:	4/28/2018	Borehole Start Time:	0932	☑ AM ☐ PM
Angel Fire LLC	End Date:	4/28/2018	End Time:	0953	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW:	Measured Well DTW:	OVA (list model and check type): MiniRAE 3000	
HA/PD	NA	NA	☐ FID	☑ PID

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-1.25- sandy clay, reddish brown (5YR 3/2), dry, firm, non plastic, no odor, no staining	CL	D	
		12"		0.1	2'		2	1.25-2.5-sandy clay, dark brown (7.5YR 2.5/1), moist, soft, med plastic, no odor or staining	CH	M	
		12"					3	2.5-3.25- silty clay, reddsish brown (5YR 4/3), moist, soft, non plastic, no odor or staining	CL	M	
4oz soil	4'	12"		0.1	4'	49	4	3.25-5.0- fine grained sand w/ angular gravel, dry, loose, no odor or staining	SW	D	Soil: DP-18 4' 0947 4/28/18
		12"					5				
		12"		0.1	6'		6	5.0-9.25- clay, olive green (5Y 5/3), moist, soft, highly plastic, no odor or staining (8.5-9.5 transition to sandy silt)	CH	M	
		12"					7				
		12"		0.0	8'		8				
		12"					9				
		12"					10	9.25-12.25- sandy silt, reddish brown (5YR 4/4), soft, moist, highly plastic, no odor or staining.	MH	M	
		12"					11				
		12"		0..0	12'		12				
		12"					13	12.25-13.0 silt, white, (5YR 8/1), moist, very soft, non plastic, chalky, no odor or staining	ML	M	
		12"					14	13.0-20.0- sandy silt, reddish brown (5YR 4/4), soft, moist, highly plastic, no odor or staining.	MH	M	
		12"					15				
		12"		0.0	16'		16				
		12"					17				
		12"					18				
		12"					19				
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number:	Permit Number:	Location:	
DP-19	18AP190346	36.430443, -105.295044 Angel Fire, NM	

Site Name:	Borehole Start Date:	4/28/2018	Borehole Start Time:	1008	☑ AM ☐ PM
Angel Fire LLC	End Date:	4/28/2018	End Time:	1039	☑ AM ☐ PM

Environmental Contractor:	Geologist's Name:	Environmental Technician's Name:
Dakota Tech/JR Drilling	Stephen Parton	

Drilling Company:	Pavement Thickness	Borehole Diameter (inches):	Borehole Depth (feet):
Geosyntec Consultants	NA	3" to 1"	20'

Drilling Method(s):	Apparent Borehole DTW: 13.25	Measured Well DTW: NA	OVA (list model and check type): MiniRAE 3000	☐ FID	☑ PID
HA/PD					

Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other

Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-2.0- sandy clay, brown (7.5YR 4/2), dry, firm, non plastic, no odor or staining	CL	D	
		12"		0.0	2'		2				
		12"					3	2.0-4.5- sandy clay, brown (7.5YR 4/4), moist, soft, highly plastic, no odor or staining	CH	M	
		12"		0.1	4'		4				
4oz soil	5'	12"				6	5	4.5-6.5- sandy clay loam w/ gravel, light brown, moist, loose, no odor or staining	SP-SC	M	Soil: DP-19 5' 1021 4/28/18
		12"					6				
		12"					7	6.5-9.25- clay, olive green (5Y 5/3), moist, soft, highly plastic, no odor or staining	CH	M	
		12"		0.0	8'		8				
		12"					9				
		12"					10	9.25-20.0-sandy silt, reddish brown (5YR 4/4), soft, moist, highly plastic, no odor or staining.	MH	M	
		12"					11				
		12"		0.0	12'		12				
		12"					13				
		12"					14	13.25-14.25- fine grained sand lens, wet, loose, no odor or staining.	SW	W	
		12"					15				
		12"		0.0	16'		16				
		12"					17				
		12"					18				
		12"					19				
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

BORING LOG

Boring/Well Number: DP-20	Permit Number: 18AP190346		Location: 36.430376, -105.294939 Angel Fire, NM	
Site Name: Angel Fire LLC	Borehole Start Date: 4/28/2018	Borehole Start Time: 1101 ☑ AM ☐ PM		
	End Date: 4/28/2018	End Time: 1129 ☑ AM ☐ PM		
Environmental Contractor: Dakota Tech/JR Drilling	Geologist's Name: Stephen Parton		Environmental Technician's Name:	
Drilling Company: Geosyntec Consultants	Pavement Thickness NA	Borehole Diameter (inches): 3" to 1"	Borehole Depth (feet): 20'	
Drilling Method(s): HA/PD	Apparent Borehole DTW: NA	Measured Well DTW: NA	OVA (list model and check type): MiniRAE 3000 ☐ FID ☑ PID	
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☑ Spread ☐ Backfill ☐ Stockpile ☐ Other				
Borehole Completion (check one): ☐ Well ☐ Grout ☑ Bentonite ☐ Backfill ☐ Other (describe)				

Sample Type	Sample Depth	Sample Recovery	Observed Water	Unfiltered OVA	OVA Depth	PetroFlag	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
		12"		0.0	6"		1	0-2.5- sandy clay, brown (7.5YR 4/2), dry, firm, non plastic, no odor or staining	CL	D	
		12"		0.0	2'		2				
		12"					3	2.5-3.75- sandy clay, brown (7.5YR 4/4), moist, soft, highly plastic, no odor or staining	CH	M	
4oz soil	4'	12"		0.1	4'	18	4	3.75-4.75- sandy clay loam w/ gravel, light brown, moist, loose, no odor or staining	SP-SC	M	Soil: DP-20 4' 1109 4/28/18
		12"					5	4.75-7.25- sandy clay, reddish brown (5YR 4/4), moist, soft, non plastic, no odor or staining	CL	M	
		12"					6				
		12"					7				
		12"		0.0	8'		8	7.25-7.5- caliche layer, tan, dry, loose, no odor or staining 7.5-11.25- coarse angular sand, olive green (2.5Y 4/3), moist, loose, no odor or staining.	SW	M	
		12"					9				
		12"					10				
		12"					11	11.25-12.75- coarse sand, red (2.5YR 4/4), moist, loose, no odor or staining	SW	M	
		12"		0.0	12'		12				
		12"					13	12.75-13.75- clay, olive green (5Y 5/3), moist, firm, highly plastic, no odor or staining	CH	M	
		12"					14	13.75-14.5- sandy silt, reddish brown (5YR 4/4), moist, soft, med plastic, no odor or staining	MH	M	
		12"					15	14.5-15.25- clay, olive green (5Y 5/3), moist, firm, highly plastic, no odor or staining	CH	M	
		12"		0.0	16'		16	15.5-20.0- sandy silt, reddish brown (5YR 4/4), soft, moist, highly plastic, no odor or staining.	MH	M	
		12"					17				
		12"					18				
		12"					19				
		12"		0.0	20'		20				
							21	20.0 - TD			
							22				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings

Moisture Content Codes: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated

Geosyntec consultants

APPENDIX D

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000

EPA: 141001-2017

LIMS Report #: **467030**

Request Id: 2445338

Submitter: **NMED - Ground Water Quality Bureau**
1190 St. Francis Drive
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 418
Collector: KATE HERRELL
User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: PZ-12
Sample Location: ANGEL FIRE PCP SITE; PZ-12
COC Initiated: Yes
Condition of Seal: Not Present

Sample #: 2018030071
Sample Type: Water

Date Collected: 10/18/2018 13:20
Date Received: 10/23/2018 15:08
Date Reported: 1/28/2019

Sample Note:

EPA 200.8 ICP/MS Metals (Liquid)

FRDS#	Analysis Date: 01/15/2019 11:40	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
1002	Aluminum	0.03	mg/L	0.01	1	0.01	SS	
1074	Antimony	<0.001	mg/L	0.001	1	0.001	SS	
1005	Arsenic	<0.001	mg/L	0.001	1	0.001	SS	
1010	Barium	0.05	mg/L	0.010	1	0.01	SS	
1075	Beryllium	<0.001	mg/L	0.001	1	0.001	SS	
1015	Cadmium	<0.001	mg/L	0.001	1	0.001	SS	
1020	Chromium	<0.001	mg/L	0.001	1	0.001	SS	
1081	Cobalt	0.005	mg/L	0.001	1	0.001	SS	
1022	Copper	<0.01	mg/L	0.01	1	0.01	SS	
1030	Lead	<0.001	mg/L	0.001	1	0.001	SS	
1084	Molybdenum	0.007	mg/L	0.001	1	0.001	SS	
1036	Nickel	<0.01	mg/L	0.01	1	0.01	SS	
1045	Selenium	<0.005	mg/L	0.005	1	0.005	SS	
1050	Silver	<0.001	mg/L	0.001	1	0.001	SS	
1085	Thallium	<0.001	mg/L	0.001	1	0.001	SS	
4006	Uranium	0.017	mg/L	0.001	1	0.001	SS	
1088	Vanadium	0.002	mg/L	0.001	1	0.001	SS	
1095	Zinc	<0.01	mg/L	0.01	1	0.01	SS	

Final

LIMS Report #: **467030** **Request Id:** 2445338

Sample #: 2018030071
Sample Type: Water

Date Collected: 10/18/2018 13:20
Date Received: 10/23/2018 15:08
Date Reported: 1/28/2019

EPA 200.8 ICP/MS Metals (Liquid)

FRDS#	Analysis Date: 10/24/2018 19:30	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
1035	Mercury	<0.0002	mg/L	0.0002	1	0.0002	GG	

EPA 200.8 ICP/MS Metals (Liquid)

FRDS#	Analysis Date: 01/24/2019 11:06	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
1032	Manganese	1.7	mg/L	0.001	80	0.080	SS	

Final

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory

Q - Sample submitted to laboratory past holding time

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000

EPA: 141001-2017

LIMS Report #: **467029**

Request Id: 2445337

Submitter: **NMED - Ground Water Quality Bureau**
1190 St. Francis Drive
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 418
Collector: KATE HERRELL
User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: PZ-19
Sample Location: ANGEL FIRE PCP SITE; PZ-19
COC Initiated: Yes
Condition of Seal: Not Present

Sample #: 2018030070
Sample Type: Water
Sample Note:

Date Collected: 10/18/2018 12:00
Date Received: 10/23/2018 15:08
Date Reported: 1/28/2019

EPA 200.8 ICP/MS Metals (Liquid)

FRDS#	Analysis Date: 10/24/2018 19:25	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
1035	Mercury	<0.0002	mg/L	0.0002	1	0.0002	GG	

EPA 200.8 ICP/MS Metals (Liquid)

FRDS#	Analysis Date: 01/15/2019 11:34	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
1002	Aluminum	<0.010	mg/L	0.01	1	0.010	SS	
1074	Antimony	<0.001	mg/L	0.001	1	0.001	SS	
1005	Arsenic	0.003	mg/L	0.001	1	0.001	SS	
1010	Barium	0.11	mg/L	0.010	1	0.010	SS	
1075	Beryllium	<0.001	mg/L	0.001	1	0.001	SS	
1015	Cadmium	<0.001	mg/L	0.001	1	0.001	SS	
1020	Chromium	<0.001	mg/L	0.001	1	0.001	SS	
1081	Cobalt	0.004	mg/L	0.001	1	0.001	SS	
1022	Copper	<0.010	mg/L	0.01	1	0.010	SS	
1030	Lead	<0.001	mg/L	0.001	1	0.001	SS	
1084	Molybdenum	0.004	mg/L	0.001	1	0.001	SS	
1036	Nickel	<0.010	mg/L	0.01	1	0.010	SS	
1045	Selenium	<0.005	mg/L	0.005	1	0.005	SS	

Final

LIMS Report #: **467029** **Request Id:** 2445337

Sample #: 2018030070
Sample Type: Water

Date Collected: 10/18/2018 12:00
Date Received: 10/23/2018 15:08
Date Reported: 1/28/2019

EPA 200.8 ICP/MS Metals (Liquid)

FRDS#	Analysis Date: 01/15/2019 11:34	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
1050	Silver	<0.001	mg/L	0.001	1	0.001	SS	
1085	Thallium	<0.001	mg/L	0.001	1	0.001	SS	
4006	Uranium	0.005	mg/L	0.001	1	0.001	SS	
1088	Vanadium	0.002	mg/L	0.001	1	0.001	SS	
1095	Zinc	<0.010	mg/L	0.01	1	0.010	SS	

EPA 200.8 ICP/MS Metals (Liquid)

FRDS#	Analysis Date: 01/24/2019 11:04	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
1032	Manganese	3.1	mg/L	0.001	100	0.10	SS	

Final

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory

Q - Sample submitted to laboratory past holding time

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

Scientific Laboratory Division
1101 Camino de Salud, N.E.
Albuquerque, NM 87102
(505) 383-9000

EPA: 141001-2017

LIMS Report #: **467031**

Request Id: 2445336

Submitter: **NMED - Ground Water Quality Bureau**
1190 St. Francis Drive
P.O. Box 5469
Santa Fe, NM 87502

Submitter Code: 418
Collector: KATE HERRELL
User Code: 55410

CC Recipient(s):

Facility/Sampling Point ID: PZ-20
Sample Location: ANGEL FIRE PCP SITE; PZ-20
COC Initiated: Yes
Condition of Seal: Not Present

Sample #: 2018030072
Sample Type: Water

Date Collected: 10/18/2018 14:10
Date Received: 10/23/2018 15:08
Date Reported: 1/28/2019

Sample Note:

EPA 200.8 ICP/MS Metals (Liquid)

FRDS#	Analysis Date: 01/15/2019 11:45	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
1002	Aluminum	0.02	mg/L	0.01	1	0.01	SS	
1074	Antimony	<0.001	mg/L	0.001	1	0.001	SS	
1005	Arsenic	0.001	mg/L	0.001	1	0.001	SS	
1010	Barium	0.04	mg/L	0.010	1	0.01	SS	
1075	Beryllium	<0.001	mg/L	0.001	1	0.001	SS	
1015	Cadmium	<0.001	mg/L	0.001	1	0.001	SS	
1020	Chromium	<0.001	mg/L	0.001	1	0.001	SS	
1081	Cobalt	0.002	mg/L	0.001	1	0.001	SS	
1022	Copper	<0.01	mg/L	0.01	1	0.01	SS	
1030	Lead	<0.001	mg/L	0.001	1	0.001	SS	
1084	Molybdenum	0.017	mg/L	0.001	1	0.001	SS	
1036	Nickel	<0.01	mg/L	0.01	1	0.01	SS	
1045	Selenium	<0.005	mg/L	0.005	1	0.005	SS	
1050	Silver	<0.001	mg/L	0.001	1	0.001	SS	
1085	Thallium	<0.001	mg/L	0.001	1	0.001	SS	
4006	Uranium	0.045	mg/L	0.001	1	0.001	SS	**L**
1088	Vanadium	0.003	mg/L	0.001	1	0.001	SS	
1095	Zinc	<0.01	mg/L	0.01	1	0.01	SS	

Final

LIMS Report #: **467031** **Request Id:** 2445336

Sample #: 2018030072
Sample Type: Water

Date Collected: 10/18/2018 14:10
Date Received: 10/23/2018 15:08
Date Reported: 1/28/2019

EPA 200.8 ICP/MS Metals (Liquid)

FRDS#	Analysis Date: 10/24/2018 19:35	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
1035	Mercury	<0.0002	mg/L	0.0002	1	0.0002	GG	

EPA 200.8 ICP/MS Metals (Liquid)

FRDS#	Analysis Date: 01/24/2019 11:09	Result	Units	MRL	Dilution Factor	SDL	Analyst initials	Data Qualifier
1032	Manganese	0.55	mg/L	0.001	20	0.020	SS	

Final

Definitions

MRL - Minimum Reporting Limit (lowest concentration that can be reported).

MDL - Method Detection Limit (lowest concentration that is differentiated from zero with 99% confidence)..

MCL - USEPA Maximum Contamination Level for SDWA regulated analytes and parameters.

SDL - Sample Detection Limit (Dilution Factor x MDL (organics) or Dilution Factor x MRL (inorganics)).

Units

mg/L - milligrams of analyte in a liter of water.

µg/L - micrograms of analyte in a liter of water.

mg/kg - milligrams of analyte in a kilogram of soil, sediment, or solid.

µg/kg - micrograms of analyte in a kilogram of soil, sediment, or solid.

ppbv - parts per billion by volume air.

Data Qualifier Codes

A - See note/comments.

B - Analyte was detected in the laboratory blank.

C - Spike recovery is within method acceptance limits.

D - Spike recovery is not within method acceptance limits.

E - Analyte value exceeded calibration range.

F - Sample matrix interference suspected.

H - Sample was analyzed in duplicate.

I - Sample was analyzed in triplicate.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K - Holding time was exceeded at laboratory.

L - Regulated parameter value equals or exceeds the EPA SDWA Maximum Contamination Level.

M - Regulated parameter value equals or exceeds the EPA SDWA Action Level.

N - Insufficient sample to verify results.

O - Method internal standard(s) not within method acceptance limits when analyzed undiluted.

P - Sample rejected/voided at laboratory

Q - Sample submitted to laboratory past holding time

S - Relative percent difference between duplicates greater than 10% (waters).

T - Relative percent difference between duplicates greater than 30% (soils).

U - Analyte was not detected in this sample above the method's sample detection limit.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-210294-1
Client Project/Site: Angel Fire Site Characterization

For:
Geosyntec Consultants, Inc.
1650 Iowa Avenue
Suite 180
Riverside, California 92507

Attn: Antony Jones

Authorized for release by:
5/8/2018 2:24:45 PM

Lena Davidkova, Project Manager II
(949)261-1022
lena.davidkova@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 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: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-210294-1	DP-1-13'	Solid	04/26/18 10:26	05/02/18 09:30
440-210294-2	DP-2-14'	Solid	04/26/18 11:41	05/02/18 09:30
440-210294-3	DP-3-7'	Solid	04/26/18 12:15	05/02/18 09:30
440-210294-4	DP-4-6'	Solid	04/26/18 13:14	05/02/18 09:30
440-210294-5	DP-5-11'	Solid	04/26/18 14:36	05/02/18 09:30
440-210294-6	DP-6-12'	Solid	04/26/18 15:15	05/02/18 09:30
440-210294-7	DP-7-10'	Solid	04/26/18 16:05	05/02/18 09:30
440-210294-8	DP-8-14'	Solid	04/26/18 17:00	05/02/18 09:30
440-210294-9	DP-9-12'	Solid	04/27/18 09:15	05/02/18 09:30
440-210294-10	DP-10-20'	Solid	04/27/18 10:35	05/02/18 09:30
440-210294-11	DP-11-5'	Solid	04/27/18 11:28	05/02/18 09:30
440-210294-12	DP-12-4'	Solid	04/27/18 12:35	05/02/18 09:30
440-210294-13	DP-13-10'	Solid	04/27/18 13:12	05/02/18 09:30
440-210294-14	DP-14-6'	Solid	04/27/18 14:05	05/02/18 09:30
440-210294-15	DP-15-7'	Solid	04/27/18 14:50	05/02/18 09:30
440-210294-16	DP-16-8'	Solid	04/27/18 15:34	05/02/18 09:30
440-210294-17	DP-17-8'	Solid	04/27/18 16:36	05/02/18 09:30
440-210294-18	DP-18-4'	Solid	04/28/18 09:47	05/02/18 09:30
440-210294-19	DP-19-5'	Solid	04/28/18 10:21	05/02/18 09:30
440-210294-20	DP-20-4'	Solid	04/28/18 11:09	05/02/18 09:30
440-210294-21	PZ-1	Water	04/28/18 12:25	05/02/18 09:30
440-210294-22	PZ-2	Water	04/28/18 12:36	05/02/18 09:30
440-210294-23	PZ-3	Water	04/28/18 12:40	05/02/18 09:30
440-210294-24	PZ-5	Water	04/28/18 12:51	05/02/18 09:30
440-210294-25	PZ-4	Water	04/28/18 12:59	05/02/18 09:30
440-210294-26	PZ-6	Water	04/28/18 13:11	05/02/18 09:30
440-210294-27	PZ-8	Water	04/28/18 13:21	05/02/18 09:30
440-210294-28	PZ-7	Water	04/28/18 13:30	05/02/18 09:30

Job ID: 440-210294-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-210294-1

Comments
No additional comments.

Receipt
The samples were received on 5/2/2018 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

Receipt Exceptions

Insufficient sample volume was provided for the following samples for the SVOC analysis: PZ-1 (440-210294-21), PZ-2 (440-210294-22), PZ-3 (440-210294-23), PZ-5 (440-210294-24), PZ-4 (440-210294-25), PZ-6 (440-210294-26), PZ-8 (440-210294-27) and PZ-7 (440-210294-28).

sample#21(PZ-1) approx. 400ml
sample#22(PZ-2) approx. 500ml
sample#23(PZ-3) approx. 900ml
sample#24(PZ-5) approx. 900ml
sample#25(PZ-4) approx. 800ml
sample#26(PZ-6) approx. 900ml
sample#27(PZ-8) approx. 500ml
sample#28(PZ-7) approx. 900ml

GC/MS VOA
Method(s) 8260B: The following samples were diluted due to the abundance of non-target analytes: DP-5-11' (440-210294-5) and DP-6-12' (440-210294-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Internal standard TBA-d9 responses were outside of acceptance limits for the following samples: DP-6-12' (440-210294-6) and DP-10-20' (440-210294-10). The sample(s) shows evidence of matrix interference.

Method(s) 8260B: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: PZ-2 (440-210294-22) and PZ-6 (440-210294-26).
The sample was analyzed within 7 days per EPA recommendation.

Method(s) 8260B: The following sample was diluted due to the abundance of hydrocarbons DP-9-12' (440-210294-9). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: DP-8-14' (440-210294-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Surrogate recovery for 4-Bromofluorobenzene the following sample was outside control limits: DP-4-6' (440-210294-4). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with analytical batch 440-474138 were outside control limits: (440-210471-C-1 MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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

GC/MS Semi VOA
Method(s) 8270C: The following samples required a dilution due to the nature of the sample matrix: DP-1-13' (440-210294-1), DP-4-6'

Job ID: 440-210294-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

(440-210294-4), DP-5-11' (440-210294-5), DP-6-12' (440-210294-6), DP-7-10' (440-210294-7), DP-11-5' (440-210294-11) and DP-14-6' (440-210294-14). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The following sample was diluted due to the nature of the sample matrix: (LCS 440-473865/2-A). Because of this dilution, the surrogate spike and matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The following sample required a dilution due to the nature of the sample matrix: PZ-1 (440-210294-21). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The percent recoveries in the laboratory control sample (LCS) of preparation batch 440-473943 and analytical batch 440-474420 failed below lower acceptance limits for the following analyte: 4-Chloroaniline This analyte is classified as poor performers and is known to have erratic recovery under routine conditions of the preparation and analytical procedures. The following affected samples are reported with possible low bias for the failing analyte.

Method(s) 8270C: The laboratory control sample duplicate (LCSD) for preparation batch 440-473943 and analytical batch 440-474420 recovered outside control limits for the following analyte: Hexachlorocyclopentadiene. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 440-473943 and analytical batch 440-474420 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine and 4-Chloroaniline.

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

Organic Prep

Method(s) 3520C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for 3520C_8270-Reg preparation/analysis: PZ-1 (440-210294-21), PZ-2 (440-210294-22), PZ-3 (440-210294-23), PZ-5 (440-210294-24), PZ-4 (440-210294-25), PZ-6 (440-210294-26) and PZ-8 (440-210294-27).

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-473943. 3520C_8270-Reg.

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.

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-1-13'
Date Collected: 04/26/18 10:26
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		24		ug/Kg			05/03/18 12:35	1
1,1,1-Trichloroethane	ND		9.7		ug/Kg			05/03/18 12:35	1
1,1,2,2-Tetrachloroethane	ND		9.7		ug/Kg			05/03/18 12:35	1
1,1,2-Trichloroethane	ND		9.7		ug/Kg			05/03/18 12:35	1
1,1-Dichloroethane	ND		9.7		ug/Kg			05/03/18 12:35	1
1,1-Dichloroethene	ND		24		ug/Kg			05/03/18 12:35	1
1,1-Dichloropropene	ND		9.7		ug/Kg			05/03/18 12:35	1
1,2,3-Trichlorobenzene	ND		24		ug/Kg			05/03/18 12:35	1
1,2,3-Trichloropropane	ND		49		ug/Kg			05/03/18 12:35	1
1,2,4-Trichlorobenzene	ND		24		ug/Kg			05/03/18 12:35	1
1,2,4-Trimethylbenzene	**160**		9.7		ug/Kg			05/03/18 12:35	1
1,2-Dibromo-3-Chloropropane	ND		24		ug/Kg			05/03/18 12:35	1
1,2-Dibromoethane (EDB)	ND		9.7		ug/Kg			05/03/18 12:35	1
1,2-Dichlorobenzene	ND		9.7		ug/Kg			05/03/18 12:35	1
1,2-Dichloroethane	ND		9.7		ug/Kg			05/03/18 12:35	1
1,2-Dichloropropane	ND		9.7		ug/Kg			05/03/18 12:35	1
1,3,5-Trimethylbenzene	**170**		9.7		ug/Kg			05/03/18 12:35	1
1,3-Dichlorobenzene	ND		9.7		ug/Kg			05/03/18 12:35	1
1,3-Dichloropropane	ND		9.7		ug/Kg			05/03/18 12:35	1
1,4-Dichlorobenzene	ND		9.7		ug/Kg			05/03/18 12:35	1
2,2-Dichloropropane	ND		9.7		ug/Kg			05/03/18 12:35	1
2-Chlorotoluene	ND		24		ug/Kg			05/03/18 12:35	1
4-Chlorotoluene	ND		24		ug/Kg			05/03/18 12:35	1
Benzene	ND		9.7		ug/Kg			05/03/18 12:35	1
Bromobenzene	ND		24		ug/Kg			05/03/18 12:35	1
Bromochloromethane	ND		24		ug/Kg			05/03/18 12:35	1
Bromodichloromethane	ND		9.7		ug/Kg			05/03/18 12:35	1
Bromoform	ND		24		ug/Kg			05/03/18 12:35	1
Bromomethane	ND		24		ug/Kg			05/03/18 12:35	1
Carbon tetrachloride	ND		24		ug/Kg			05/03/18 12:35	1
Chlorobenzene	ND		9.7		ug/Kg			05/03/18 12:35	1
Chloroethane	ND		24		ug/Kg			05/03/18 12:35	1
Chloroform	ND		9.7		ug/Kg			05/03/18 12:35	1
Chloromethane	ND		24		ug/Kg			05/03/18 12:35	1
cis-1,2-Dichloroethene	ND		9.7		ug/Kg			05/03/18 12:35	1
cis-1,3-Dichloropropene	ND		9.7		ug/Kg			05/03/18 12:35	1
Dibromochloromethane	ND		9.7		ug/Kg			05/03/18 12:35	1
Dibromomethane	ND		9.7		ug/Kg			05/03/18 12:35	1
Dichlorodifluoromethane	ND		24		ug/Kg			05/03/18 12:35	1
Ethylbenzene	ND		9.7		ug/Kg			05/03/18 12:35	1
Hexachlorobutadiene	ND		24		ug/Kg			05/03/18 12:35	1
Isopropylbenzene	ND		9.7		ug/Kg			05/03/18 12:35	1
m,p-Xylene	ND		19		ug/Kg			05/03/18 12:35	1
Methylene Chloride	ND		97		ug/Kg			05/03/18 12:35	1
Methyl-t-Butyl Ether (MTBE)	ND		24		ug/Kg			05/03/18 12:35	1
Naphthalene	**620**		24		ug/Kg			05/03/18 12:35	1
n-Butylbenzene	**38**		24		ug/Kg			05/03/18 12:35	1
N-Propylbenzene	**11**		9.7		ug/Kg			05/03/18 12:35	1
o-Xylene	ND		9.7		ug/Kg			05/03/18 12:35	1

Client Sample ID: DP-1-13'
Date Collected: 04/26/18 10:26
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		24		ug/Kg			05/03/18 12:35	1
Styrene	ND		9.7		ug/Kg			05/03/18 12:35	1
Tert-amyl-methyl ether (TAME)	ND		24		ug/Kg			05/03/18 12:35	1
tert-Butylbenzene	ND		24		ug/Kg			05/03/18 12:35	1
Tetrachloroethene	ND		9.7		ug/Kg			05/03/18 12:35	1
Toluene	ND		9.7		ug/Kg			05/03/18 12:35	1
trans-1,2-Dichloroethene	ND		9.7		ug/Kg			05/03/18 12:35	1
trans-1,3-Dichloropropene	ND		9.7		ug/Kg			05/03/18 12:35	1
Trichloroethene	ND		9.7		ug/Kg			05/03/18 12:35	1
Trichlorofluoromethane	ND		24		ug/Kg			05/03/18 12:35	1
Vinyl chloride	ND		24		ug/Kg			05/03/18 12:35	1
Xylenes, Total	ND		19		ug/Kg			05/03/18 12:35	1
Isopropyl Ether (DIPE)	ND		24		ug/Kg			05/03/18 12:35	1
Ethyl-t-butyl ether (ETBE)	ND		24		ug/Kg			05/03/18 12:35	1
tert-Butyl alcohol (TBA)	ND		490		ug/Kg			05/03/18 12:35	1
p-Isopropyltoluene	**26**		9.7		ug/Kg			05/03/18 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*79 - 123*		*05/03/18 12:35*	*1*
4-Bromofluorobenzene (Surr)	*118*		*79 - 120*		*05/03/18 12:35*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*05/03/18 12:35*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		17000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
2-Methylnaphthalene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
2-Methylphenol	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
3-Methylphenol + 4-Methylphenol	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
4-Chloro-3-methylphenol	ND		20000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Acenaphthene	**41000**		17000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Acenaphthylene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Anthracene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Benzo[a]anthracene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Benzo[a]pyrene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Benzo[b]fluoranthene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Benzo[g,h,i]perylene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Benzo[k]fluoranthene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Carbazole	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Chrysene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Dibenz(a,h)anthracene	ND		21000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Dibenzofuran	**26000**		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Fluoranthene	**56000**		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Fluorene	**36000**		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Indeno[1,2,3-cd]pyrene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Naphthalene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Pentachlorophenol	**85000**		41000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Phenanthrene	**100000**		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Phenol	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Pyrene	**41000**		16000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50
Pyridine	ND		17000		ug/Kg		05/02/18 21:27	05/03/18 20:38	50

Client Sample ID: DP-1-13'

Date Collected: 04/26/18 10:26
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-1
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	X	10 - 147	05/02/18 21:27	05/03/18 20:38	50
2-Fluorophenol (Surr)	53		18 - 138	05/02/18 21:27	05/03/18 20:38	50
Phenol-d6 (Surr)	58		37 - 125	05/02/18 21:27	05/03/18 20:38	50
Nitrobenzene-d5 (Surr)	65		39 - 104	05/02/18 21:27	05/03/18 20:38	50
2-Fluorobiphenyl	76		42 - 113	05/02/18 21:27	05/03/18 20:38	50
Terphenyl-d14 (Surr)	88		43 - 125	05/02/18 21:27	05/03/18 20:38	50

Client Sample ID: DP-2-14'

Date Collected: 04/26/18 11:41
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/03/18 13:02	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/03/18 13:02	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/03/18 13:02	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/03/18 13:02	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/03/18 13:02	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/03/18 13:02	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/03/18 13:02	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 13:02	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			05/03/18 13:02	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 13:02	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 13:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			05/03/18 13:02	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/03/18 13:02	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 13:02	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/03/18 13:02	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 13:02	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 13:02	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 13:02	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/03/18 13:02	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 13:02	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 13:02	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 13:02	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 13:02	1
Benzene	ND		2.0		ug/Kg			05/03/18 13:02	1
Bromobenzene	ND		5.0		ug/Kg			05/03/18 13:02	1
Bromochloromethane	ND		5.0		ug/Kg			05/03/18 13:02	1
Bromodichloromethane	ND		2.0		ug/Kg			05/03/18 13:02	1
Bromoform	ND		5.0		ug/Kg			05/03/18 13:02	1
Bromomethane	ND		5.0		ug/Kg			05/03/18 13:02	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/03/18 13:02	1
Chlorobenzene	ND		2.0		ug/Kg			05/03/18 13:02	1
Chloroethane	ND		5.0		ug/Kg			05/03/18 13:02	1
Chloroform	ND		2.0		ug/Kg			05/03/18 13:02	1
Chloromethane	ND		5.0		ug/Kg			05/03/18 13:02	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 13:02	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 13:02	1
Dibromochloromethane	ND		2.0		ug/Kg			05/03/18 13:02	1

Client Sample ID: DP-2-14'
Date Collected: 04/26/18 11:41
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		2.0		ug/Kg			05/03/18 13:02	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			05/03/18 13:02	1
Ethylbenzene	ND		2.0		ug/Kg			05/03/18 13:02	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/03/18 13:02	1
Isopropylbenzene	ND		2.0		ug/Kg			05/03/18 13:02	1
m,p-Xylene	ND		4.0		ug/Kg			05/03/18 13:02	1
Methylene Chloride	ND		20		ug/Kg			05/03/18 13:02	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			05/03/18 13:02	1
Naphthalene	ND		5.0		ug/Kg			05/03/18 13:02	1
n-Butylbenzene	ND		5.0		ug/Kg			05/03/18 13:02	1
N-Propylbenzene	ND		2.0		ug/Kg			05/03/18 13:02	1
o-Xylene	ND		2.0		ug/Kg			05/03/18 13:02	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/03/18 13:02	1
Styrene	ND		2.0		ug/Kg			05/03/18 13:02	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/Kg			05/03/18 13:02	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/03/18 13:02	1
Tetrachloroethene	ND		2.0		ug/Kg			05/03/18 13:02	1
Toluene	ND		2.0		ug/Kg			05/03/18 13:02	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 13:02	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 13:02	1
Trichloroethene	ND		2.0		ug/Kg			05/03/18 13:02	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/03/18 13:02	1
Vinyl chloride	ND		5.0		ug/Kg			05/03/18 13:02	1
Xylenes, Total	ND		4.0		ug/Kg			05/03/18 13:02	1
Isopropyl Ether (DIPE)	ND		5.0		ug/Kg			05/03/18 13:02	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			05/03/18 13:02	1
tert-Butyl alcohol (TBA)	ND		99		ug/Kg			05/03/18 13:02	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/03/18 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*79 - 123*		*05/03/18 13:02*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*		*05/03/18 13:02*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*05/03/18 13:02*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
2-Methylnaphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
2-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
4-Chloro-3-methylphenol	ND		400		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Acenaphthene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Acenaphthylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Benzo[a]anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Benzo[a]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Benzo[b]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Benzo[k]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Carbazole	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1

Client Sample ID: DP-2-14'

Date Collected: 04/26/18 11:41
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-2
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Dibenz(a,h)anthracene	ND		420		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Dibenzofuran	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Fluorene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Naphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Pentachlorophenol	ND		820		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Phenanthrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Phenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 01:55	1
Pyridine	ND		340		ug/Kg		05/02/18 21:27	05/04/18 01:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*10 - 147*	*05/02/18 21:27*	*05/04/18 01:55*	*1*
2-Fluorophenol (Surr)	*78*		*18 - 138*	*05/02/18 21:27*	*05/04/18 01:55*	*1*
Phenol-d6 (Surr)	*75*		*37 - 125*	*05/02/18 21:27*	*05/04/18 01:55*	*1*
Nitrobenzene-d5 (Surr)	*78*		*39 - 104*	*05/02/18 21:27*	*05/04/18 01:55*	*1*
2-Fluorobiphenyl	*83*		*42 - 113*	*05/02/18 21:27*	*05/04/18 01:55*	*1*
Terphenyl-d14 (Surr)	*85*		*43 - 125*	*05/02/18 21:27*	*05/04/18 01:55*	*1*

Client Sample ID: DP-3-7'

Date Collected: 04/26/18 12:15
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/03/18 14:23	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/03/18 14:23	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/03/18 14:23	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/03/18 14:23	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/03/18 14:23	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/03/18 14:23	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/03/18 14:23	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 14:23	1
1,2,3-Trichloropropane	ND		10		ug/Kg			05/03/18 14:23	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 14:23	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 14:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			05/03/18 14:23	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/03/18 14:23	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 14:23	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/03/18 14:23	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 14:23	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 14:23	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 14:23	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/03/18 14:23	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 14:23	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 14:23	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 14:23	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 14:23	1

Client Sample ID: DP-3-7'
Date Collected: 04/26/18 12:15
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0		ug/Kg			05/03/18 14:23	1
Bromobenzene	ND		5.0		ug/Kg			05/03/18 14:23	1
Bromochloromethane	ND		5.0		ug/Kg			05/03/18 14:23	1
Bromodichloromethane	ND		2.0		ug/Kg			05/03/18 14:23	1
Bromoform	ND		5.0		ug/Kg			05/03/18 14:23	1
Bromomethane	ND		5.0		ug/Kg			05/03/18 14:23	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/03/18 14:23	1
Chlorobenzene	ND		2.0		ug/Kg			05/03/18 14:23	1
Chloroethane	ND		5.0		ug/Kg			05/03/18 14:23	1
Chloroform	ND		2.0		ug/Kg			05/03/18 14:23	1
Chloromethane	ND		5.0		ug/Kg			05/03/18 14:23	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 14:23	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 14:23	1
Dibromochloromethane	ND		2.0		ug/Kg			05/03/18 14:23	1
Dibromomethane	ND		2.0		ug/Kg			05/03/18 14:23	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			05/03/18 14:23	1
Ethylbenzene	ND		2.0		ug/Kg			05/03/18 14:23	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/03/18 14:23	1
Isopropylbenzene	ND		2.0		ug/Kg			05/03/18 14:23	1
m,p-Xylene	ND		4.0		ug/Kg			05/03/18 14:23	1
Methylene Chloride	ND		20		ug/Kg			05/03/18 14:23	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			05/03/18 14:23	1
Naphthalene	ND		5.0		ug/Kg			05/03/18 14:23	1
n-Butylbenzene	ND		5.0		ug/Kg			05/03/18 14:23	1
N-Propylbenzene	ND		2.0		ug/Kg			05/03/18 14:23	1
o-Xylene	ND		2.0		ug/Kg			05/03/18 14:23	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/03/18 14:23	1
Styrene	ND		2.0		ug/Kg			05/03/18 14:23	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/Kg			05/03/18 14:23	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/03/18 14:23	1
Tetrachloroethene	ND		2.0		ug/Kg			05/03/18 14:23	1
Toluene	ND		2.0		ug/Kg			05/03/18 14:23	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 14:23	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 14:23	1
Trichloroethene	ND		2.0		ug/Kg			05/03/18 14:23	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/03/18 14:23	1
Vinyl chloride	ND		5.0		ug/Kg			05/03/18 14:23	1
Xylenes, Total	ND		4.0		ug/Kg			05/03/18 14:23	1
Isopropyl Ether (DIPE)	ND		5.0		ug/Kg			05/03/18 14:23	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			05/03/18 14:23	1
tert-Butyl alcohol (TBA)	ND		100		ug/Kg			05/03/18 14:23	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/03/18 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*79 - 123*		*05/03/18 14:23*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*05/03/18 14:23*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 120*		*05/03/18 14:23*	*1*

Client Sample ID: DP-3-7'

Date Collected: 04/26/18 12:15
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-3
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		340		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
2-Methylnaphthalene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
2-Methylphenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
3-Methylphenol + 4-Methylphenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
4-Chloro-3-methylphenol	ND		390		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Acenaphthene	ND		340		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Acenaphthylene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Anthracene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Benzo[a]anthracene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Benzo[a]pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Benzo[b]fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Benzo[g,h,i]perylene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Benzo[k]fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Carbazole	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Chrysene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Dibenz(a,h)anthracene	ND		410		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Dibenzofuran	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Fluorene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Indeno[1,2,3-cd]pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Naphthalene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Pentachlorophenol	ND		810		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Phenanthrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Phenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:19	1
Pyridine	ND		330		ug/Kg		05/02/18 21:27	05/04/18 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*10 - 147*	*05/02/18 21:27*	*05/04/18 02:19*	*1*
2-Fluorophenol (Surr)	*67*		*18 - 138*	*05/02/18 21:27*	*05/04/18 02:19*	*1*
Phenol-d6 (Surr)	*68*		*37 - 125*	*05/02/18 21:27*	*05/04/18 02:19*	*1*
Nitrobenzene-d5 (Surr)	*74*		*39 - 104*	*05/02/18 21:27*	*05/04/18 02:19*	*1*
2-Fluorobiphenyl	*78*		*42 - 113*	*05/02/18 21:27*	*05/04/18 02:19*	*1*
Terphenyl-d14 (Surr)	*80*		*43 - 125*	*05/02/18 21:27*	*05/04/18 02:19*	*1*

Client Sample ID: DP-4-6'

Date Collected: 04/26/18 13:14
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg			05/03/18 14:50	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/03/18 14:50	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/03/18 14:50	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/03/18 14:50	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/03/18 14:50	1
1,1-Dichloroethene	ND		4.9		ug/Kg			05/03/18 14:50	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/03/18 14:50	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg			05/03/18 14:50	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			05/03/18 14:50	1

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-4-6'
Date Collected: 04/26/18 13:14
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg			05/03/18 14:50	1
1,2,4-Trimethylbenzene	**37**		2.0		ug/Kg			05/03/18 14:50	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg			05/03/18 14:50	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/03/18 14:50	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 14:50	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/03/18 14:50	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 14:50	1
1,3,5-Trimethylbenzene	**40**		2.0		ug/Kg			05/03/18 14:50	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 14:50	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/03/18 14:50	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 14:50	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 14:50	1
2-Chlorotoluene	ND		4.9		ug/Kg			05/03/18 14:50	1
4-Chlorotoluene	ND		4.9		ug/Kg			05/03/18 14:50	1
Benzene	ND		2.0		ug/Kg			05/03/18 14:50	1
Bromobenzene	ND		4.9		ug/Kg			05/03/18 14:50	1
Bromochloromethane	ND		4.9		ug/Kg			05/03/18 14:50	1
Bromodichloromethane	ND		2.0		ug/Kg			05/03/18 14:50	1
Bromoform	ND		4.9		ug/Kg			05/03/18 14:50	1
Bromomethane	ND		4.9		ug/Kg			05/03/18 14:50	1
Carbon tetrachloride	ND		4.9		ug/Kg			05/03/18 14:50	1
Chlorobenzene	ND		2.0		ug/Kg			05/03/18 14:50	1
Chloroethane	ND		4.9		ug/Kg			05/03/18 14:50	1
Chloroform	ND		2.0		ug/Kg			05/03/18 14:50	1
Chloromethane	ND		4.9		ug/Kg			05/03/18 14:50	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 14:50	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 14:50	1
Dibromochloromethane	ND		2.0		ug/Kg			05/03/18 14:50	1
Dibromomethane	ND		2.0		ug/Kg			05/03/18 14:50	1
Dichlorodifluoromethane	ND		4.9		ug/Kg			05/03/18 14:50	1
Ethylbenzene	ND		2.0		ug/Kg			05/03/18 14:50	1
Hexachlorobutadiene	ND		4.9		ug/Kg			05/03/18 14:50	1
Isopropylbenzene	ND		2.0		ug/Kg			05/03/18 14:50	1
m,p-Xylene	ND		3.9		ug/Kg			05/03/18 14:50	1
Methylene Chloride	ND		20		ug/Kg			05/03/18 14:50	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9		ug/Kg			05/03/18 14:50	1
Naphthalene	ND		4.9		ug/Kg			05/03/18 14:50	1
n-Butylbenzene	ND		4.9		ug/Kg			05/03/18 14:50	1
N-Propylbenzene	ND		2.0		ug/Kg			05/03/18 14:50	1
o-Xylene	ND		2.0		ug/Kg			05/03/18 14:50	1
sec-Butylbenzene	ND		4.9		ug/Kg			05/03/18 14:50	1
Styrene	ND		2.0		ug/Kg			05/03/18 14:50	1
Tert-amyl-methyl ether (TAME)	ND		4.9		ug/Kg			05/03/18 14:50	1
tert-Butylbenzene	ND		4.9		ug/Kg			05/03/18 14:50	1
Tetrachloroethene	ND		2.0		ug/Kg			05/03/18 14:50	1
Toluene	ND		2.0		ug/Kg			05/03/18 14:50	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 14:50	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 14:50	1
Trichloroethene	ND		2.0		ug/Kg			05/03/18 14:50	1

Client Sample ID: DP-4-6'
Date Collected: 04/26/18 13:14
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		4.9		ug/Kg			05/03/18 14:50	1
Vinyl chloride	ND		4.9		ug/Kg			05/03/18 14:50	1
Xylenes, Total	ND		3.9		ug/Kg			05/03/18 14:50	1
Isopropyl Ether (DIPE)	ND		4.9		ug/Kg			05/03/18 14:50	1
Ethyl-t-butyl ether (ETBE)	ND		4.9		ug/Kg			05/03/18 14:50	1
tert-Butyl alcohol (TBA)	ND		99		ug/Kg			05/03/18 14:50	1
p-Isopropyltoluene	**5.6**		2.0		ug/Kg			05/03/18 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*113*		*79 - 123*		*05/03/18 14:50*	*1*
4-Bromofluorobenzene (Surr)	*137*	*X*	*79 - 120*		*05/03/18 14:50*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 120*		*05/03/18 14:50*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		17000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
2-Methylnaphthalene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
2-Methylphenol	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
3-Methylphenol + 4-Methylphenol	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
4-Chloro-3-methylphenol	ND		20000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Acenaphthene	ND		17000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Acenaphthylene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Anthracene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Benzo[a]anthracene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Benzo[a]pyrene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Benzo[b]fluoranthene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Benzo[g,h,i]perylene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Benzo[k]fluoranthene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Carbazole	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Chrysene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Dibenz(a,h)anthracene	ND		21000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Dibenzofuran	**25000**		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Fluoranthene	**23000**		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Fluorene	**23000**		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Indeno[1,2,3-cd]pyrene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Naphthalene	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Pentachlorophenol	**320000**		41000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Phenanthrene	**60000**		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Phenol	ND		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Pyrene	**17000**		16000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50
Pyridine	ND		17000		ug/Kg		05/02/18 21:27	05/03/18 21:01	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*10 - 147*	*05/02/18 21:27*	*05/03/18 21:01*	*50*
2-Fluorophenol (Surr)	*55*		*18 - 138*	*05/02/18 21:27*	*05/03/18 21:01*	*50*
Phenol-d6 (Surr)	*53*		*37 - 125*	*05/02/18 21:27*	*05/03/18 21:01*	*50*
Nitrobenzene-d5 (Surr)	*57*		*39 - 104*	*05/02/18 21:27*	*05/03/18 21:01*	*50*
2-Fluorobiphenyl	*80*		*42 - 113*	*05/02/18 21:27*	*05/03/18 21:01*	*50*
Terphenyl-d14 (Surr)	*77*		*43 - 125*	*05/02/18 21:27*	*05/03/18 21:01*	*50*

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-5-11'
Date Collected: 04/26/18 14:36
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		9.5		ug/Kg			05/03/18 15:17	1
1,1,1-Trichloroethane	ND		3.8		ug/Kg			05/03/18 15:17	1
1,1,2,2-Tetrachloroethane	ND		3.8		ug/Kg			05/03/18 15:17	1
1,1,2-Trichloroethane	ND		3.8		ug/Kg			05/03/18 15:17	1
1,1-Dichloroethane	ND		3.8		ug/Kg			05/03/18 15:17	1
1,1-Dichloroethene	ND		9.5		ug/Kg			05/03/18 15:17	1
1,1-Dichloropropene	ND		3.8		ug/Kg			05/03/18 15:17	1
1,2,3-Trichlorobenzene	ND		9.5		ug/Kg			05/03/18 15:17	1
1,2,3-Trichloropropane	ND		19		ug/Kg			05/03/18 15:17	1
1,2,4-Trichlorobenzene	ND		9.5		ug/Kg			05/03/18 15:17	1
1,2,4-Trimethylbenzene	ND		3.8		ug/Kg			05/03/18 15:17	1
1,2-Dibromo-3-Chloropropane	ND		9.5		ug/Kg			05/03/18 15:17	1
1,2-Dibromoethane (EDB)	ND		3.8		ug/Kg			05/03/18 15:17	1
1,2-Dichlorobenzene	ND		3.8		ug/Kg			05/03/18 15:17	1
1,2-Dichloroethane	ND		3.8		ug/Kg			05/03/18 15:17	1
1,2-Dichloropropane	ND		3.8		ug/Kg			05/03/18 15:17	1
1,3,5-Trimethylbenzene	ND		3.8		ug/Kg			05/03/18 15:17	1
1,3-Dichlorobenzene	ND		3.8		ug/Kg			05/03/18 15:17	1
1,3-Dichloropropane	ND		3.8		ug/Kg			05/03/18 15:17	1
1,4-Dichlorobenzene	ND		3.8		ug/Kg			05/03/18 15:17	1
2,2-Dichloropropane	ND		3.8		ug/Kg			05/03/18 15:17	1
2-Chlorotoluene	ND		9.5		ug/Kg			05/03/18 15:17	1
4-Chlorotoluene	ND		9.5		ug/Kg			05/03/18 15:17	1
Benzene	ND		3.8		ug/Kg			05/03/18 15:17	1
Bromobenzene	ND		9.5		ug/Kg			05/03/18 15:17	1
Bromochloromethane	ND		9.5		ug/Kg			05/03/18 15:17	1
Bromodichloromethane	ND		3.8		ug/Kg			05/03/18 15:17	1
Bromoform	ND		9.5		ug/Kg			05/03/18 15:17	1
Bromomethane	ND		9.5		ug/Kg			05/03/18 15:17	1
Carbon tetrachloride	ND		9.5		ug/Kg			05/03/18 15:17	1
Chlorobenzene	ND		3.8		ug/Kg			05/03/18 15:17	1
Chloroethane	ND		9.5		ug/Kg			05/03/18 15:17	1
Chloroform	ND		3.8		ug/Kg			05/03/18 15:17	1
Chloromethane	ND		9.5		ug/Kg			05/03/18 15:17	1
cis-1,2-Dichloroethene	ND		3.8		ug/Kg			05/03/18 15:17	1
cis-1,3-Dichloropropene	ND		3.8		ug/Kg			05/03/18 15:17	1
Dibromochloromethane	ND		3.8		ug/Kg			05/03/18 15:17	1
Dibromomethane	ND		3.8		ug/Kg			05/03/18 15:17	1
Dichlorodifluoromethane	ND		9.5		ug/Kg			05/03/18 15:17	1
Ethylbenzene	ND		3.8		ug/Kg			05/03/18 15:17	1
Hexachlorobutadiene	ND		9.5		ug/Kg			05/03/18 15:17	1
Isopropylbenzene	**28**		3.8		ug/Kg			05/03/18 15:17	1
m,p-Xylene	ND		7.6		ug/Kg			05/03/18 15:17	1
Methylene Chloride	ND		38		ug/Kg			05/03/18 15:17	1
Methyl-t-Butyl Ether (MTBE)	ND		9.5		ug/Kg			05/03/18 15:17	1
Naphthalene	ND		9.5		ug/Kg			05/03/18 15:17	1
n-Butylbenzene	**54**		9.5		ug/Kg			05/03/18 15:17	1
N-Propylbenzene	**48**		3.8		ug/Kg			05/03/18 15:17	1
o-Xylene	ND		3.8		ug/Kg			05/03/18 15:17	1

Client Sample ID: DP-5-11'
Date Collected: 04/26/18 14:36
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**47**		9.5		ug/Kg			05/03/18 15:17	1
Styrene	ND		3.8		ug/Kg			05/03/18 15:17	1
Tert-amyl-methyl ether (TAME)	ND		9.5		ug/Kg			05/03/18 15:17	1
tert-Butylbenzene	ND		9.5		ug/Kg			05/03/18 15:17	1
Tetrachloroethene	ND		3.8		ug/Kg			05/03/18 15:17	1
Toluene	ND		3.8		ug/Kg			05/03/18 15:17	1
trans-1,2-Dichloroethene	ND		3.8		ug/Kg			05/03/18 15:17	1
trans-1,3-Dichloropropene	ND		3.8		ug/Kg			05/03/18 15:17	1
Trichloroethene	ND		3.8		ug/Kg			05/03/18 15:17	1
Trichlorofluoromethane	ND		9.5		ug/Kg			05/03/18 15:17	1
Vinyl chloride	ND		9.5		ug/Kg			05/03/18 15:17	1
Xylenes, Total	ND		7.6		ug/Kg			05/03/18 15:17	1
Isopropyl Ether (DIPE)	ND		9.5		ug/Kg			05/03/18 15:17	1
Ethyl-t-butyl ether (ETBE)	ND		9.5		ug/Kg			05/03/18 15:17	1
tert-Butyl alcohol (TBA)	ND		190		ug/Kg			05/03/18 15:17	1
p-Isopropyltoluene	ND		3.8		ug/Kg			05/03/18 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*79 - 123*		*05/03/18 15:17*	*1*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*		*05/03/18 15:17*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*05/03/18 15:17*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		3500		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
2-Methylnaphthalene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
2-Methylphenol	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
3-Methylphenol + 4-Methylphenol	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
4-Chloro-3-methylphenol	ND		4000		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Acenaphthene	ND		3500		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Acenaphthylene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Anthracene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Benzo[a]anthracene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Benzo[a]pyrene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Benzo[b]fluoranthene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Benzo[g,h,i]perylene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Benzo[k]fluoranthene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Carbazole	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Chrysene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Dibenz(a,h)anthracene	ND		4200		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Dibenzofuran	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Fluoranthene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Fluorene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Indeno[1,2,3-cd]pyrene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Naphthalene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Pentachlorophenol	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Phenanthrene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Phenol	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Pyrene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 21:46	10
Pyridine	ND		3400		ug/Kg		05/02/18 21:27	05/03/18 21:46	10

Client Sample ID: DP-5-11'

Lab Sample ID: 440-210294-5

Date Collected: 04/26/18 14:36

Matrix: Solid

Date Received: 05/02/18 09:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 147*	*05/02/18 21:27*	*05/03/18 21:46*	*10*
2-Fluorophenol (Surr)	*67*		*18 - 138*	*05/02/18 21:27*	*05/03/18 21:46*	*10*
Phenol-d6 (Surr)	*63*		*37 - 125*	*05/02/18 21:27*	*05/03/18 21:46*	*10*
Nitrobenzene-d5 (Surr)	*68*		*39 - 104*	*05/02/18 21:27*	*05/03/18 21:46*	*10*
2-Fluorobiphenyl	*79*		*42 - 113*	*05/02/18 21:27*	*05/03/18 21:46*	*10*
Terphenyl-d14 (Surr)	*74*		*43 - 125*	*05/02/18 21:27*	*05/03/18 21:46*	*10*

Client Sample ID: DP-6-12'

Lab Sample ID: 440-210294-6

Date Collected: 04/26/18 15:15

Matrix: Solid

Date Received: 05/02/18 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		9.3		ug/Kg			05/03/18 15:44	1
1,1,1-Trichloroethane	ND		3.7		ug/Kg			05/03/18 15:44	1
1,1,2,2-Tetrachloroethane	ND		3.7		ug/Kg			05/03/18 15:44	1
1,1,2-Trichloroethane	ND		3.7		ug/Kg			05/03/18 15:44	1
1,1-Dichloroethane	ND		3.7		ug/Kg			05/03/18 15:44	1
1,1-Dichloroethene	ND		9.3		ug/Kg			05/03/18 15:44	1
1,1-Dichloropropene	ND		3.7		ug/Kg			05/03/18 15:44	1
1,2,3-Trichlorobenzene	ND		9.3		ug/Kg			05/03/18 15:44	1
1,2,3-Trichloropropane	ND		19		ug/Kg			05/03/18 15:44	1
1,2,4-Trichlorobenzene	ND		9.3		ug/Kg			05/03/18 15:44	1
1,2,4-Trimethylbenzene	**27**		3.7		ug/Kg			05/03/18 15:44	1
1,2-Dibromo-3-Chloropropane	ND		9.3		ug/Kg			05/03/18 15:44	1
1,2-Dibromoethane (EDB)	ND		3.7		ug/Kg			05/03/18 15:44	1
1,2-Dichlorobenzene	ND		3.7		ug/Kg			05/03/18 15:44	1
1,2-Dichloroethane	ND		3.7		ug/Kg			05/03/18 15:44	1
1,2-Dichloropropane	ND		3.7		ug/Kg			05/03/18 15:44	1
1,3,5-Trimethylbenzene	ND		3.7		ug/Kg			05/03/18 15:44	1
1,3-Dichlorobenzene	ND		3.7		ug/Kg			05/03/18 15:44	1
1,3-Dichloropropane	ND		3.7		ug/Kg			05/03/18 15:44	1
1,4-Dichlorobenzene	ND		3.7		ug/Kg			05/03/18 15:44	1
2,2-Dichloropropane	ND		3.7		ug/Kg			05/03/18 15:44	1
2-Chlorotoluene	ND		9.3		ug/Kg			05/03/18 15:44	1
4-Chlorotoluene	ND		9.3		ug/Kg			05/03/18 15:44	1
Benzene	ND		3.7		ug/Kg			05/03/18 15:44	1
Bromobenzene	ND		9.3		ug/Kg			05/03/18 15:44	1
Bromochloromethane	ND		9.3		ug/Kg			05/03/18 15:44	1
Bromodichloromethane	ND		3.7		ug/Kg			05/03/18 15:44	1
Bromoform	ND		9.3		ug/Kg			05/03/18 15:44	1
Bromomethane	ND		9.3		ug/Kg			05/03/18 15:44	1
Carbon tetrachloride	ND		9.3		ug/Kg			05/03/18 15:44	1
Chlorobenzene	ND		3.7		ug/Kg			05/03/18 15:44	1
Chloroethane	ND		9.3		ug/Kg			05/03/18 15:44	1
Chloroform	ND		3.7		ug/Kg			05/03/18 15:44	1
Chloromethane	ND		9.3		ug/Kg			05/03/18 15:44	1
cis-1,2-Dichloroethene	ND		3.7		ug/Kg			05/03/18 15:44	1
cis-1,3-Dichloropropene	ND		3.7		ug/Kg			05/03/18 15:44	1
Dibromochloromethane	ND		3.7		ug/Kg			05/03/18 15:44	1

Client Sample ID: DP-6-12'
Date Collected: 04/26/18 15:15
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		3.7		ug/Kg			05/03/18 15:44	1
Dichlorodifluoromethane	ND		9.3		ug/Kg			05/03/18 15:44	1
Ethylbenzene	ND		3.7		ug/Kg			05/03/18 15:44	1
Hexachlorobutadiene	ND		9.3		ug/Kg			05/03/18 15:44	1
Isopropylbenzene	**9.3**		3.7		ug/Kg			05/03/18 15:44	1
m,p-Xylene	ND		7.5		ug/Kg			05/03/18 15:44	1
Methylene Chloride	ND		37		ug/Kg			05/03/18 15:44	1
Methyl-t-Butyl Ether (MTBE)	ND		9.3		ug/Kg			05/03/18 15:44	1
Naphthalene	**16**		9.3		ug/Kg			05/03/18 15:44	1
n-Butylbenzene	ND		9.3		ug/Kg			05/03/18 15:44	1
N-Propylbenzene	**16**		3.7		ug/Kg			05/03/18 15:44	1
o-Xylene	ND		3.7		ug/Kg			05/03/18 15:44	1
sec-Butylbenzene	**53**		9.3		ug/Kg			05/03/18 15:44	1
Styrene	ND		3.7		ug/Kg			05/03/18 15:44	1
Tert-amyl-methyl ether (TAME)	ND		9.3		ug/Kg			05/03/18 15:44	1
tert-Butylbenzene	ND		9.3		ug/Kg			05/03/18 15:44	1
Tetrachloroethene	ND		3.7		ug/Kg			05/03/18 15:44	1
Toluene	ND		3.7		ug/Kg			05/03/18 15:44	1
trans-1,2-Dichloroethene	ND		3.7		ug/Kg			05/03/18 15:44	1
trans-1,3-Dichloropropene	ND		3.7		ug/Kg			05/03/18 15:44	1
Trichloroethene	ND		3.7		ug/Kg			05/03/18 15:44	1
Trichlorofluoromethane	ND		9.3		ug/Kg			05/03/18 15:44	1
Vinyl chloride	ND		9.3		ug/Kg			05/03/18 15:44	1
Xylenes, Total	ND		7.5		ug/Kg			05/03/18 15:44	1
Isopropyl Ether (DIPE)	ND		9.3		ug/Kg			05/03/18 15:44	1
Ethyl-t-butyl ether (ETBE)	ND		9.3		ug/Kg			05/03/18 15:44	1
tert-Butyl alcohol (TBA)	ND	*	190		ug/Kg			05/03/18 15:44	1
p-Isopropyltoluene	**23**		3.7		ug/Kg			05/03/18 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*79 - 123*		*05/03/18 15:44*	*1*
4-Bromofluorobenzene (Surr)	*116*		*79 - 120*		*05/03/18 15:44*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*05/03/18 15:44*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		3500		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
2-Methylnaphthalene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
2-Methylphenol	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
3-Methylphenol + 4-Methylphenol	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
4-Chloro-3-methylphenol	ND		4000		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Acenaphthene	ND		3500		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Acenaphthylene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Anthracene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Benzo[a]anthracene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Benzo[a]pyrene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Benzo[b]fluoranthene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Benzo[g,h,i]perylene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Benzo[k]fluoranthene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Carbazole	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10

Client Sample ID: DP-6-12'

Date Collected: 04/26/18 15:15
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-6
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Dibenz(a,h)anthracene	ND		4200		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Dibenzofuran	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Fluoranthene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Fluorene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Indeno[1,2,3-cd]pyrene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Naphthalene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Pentachlorophenol	ND		8300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Phenanthrene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Phenol	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Pyrene	ND		3300		ug/Kg		05/02/18 21:27	05/03/18 22:08	10
Pyridine	ND		3400		ug/Kg		05/02/18 21:27	05/03/18 22:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*10 - 147*	*05/02/18 21:27*	*05/03/18 22:08*	*10*
2-Fluorophenol (Surr)	*66*		*18 - 138*	*05/02/18 21:27*	*05/03/18 22:08*	*10*
Phenol-d6 (Surr)	*59*		*37 - 125*	*05/02/18 21:27*	*05/03/18 22:08*	*10*
Nitrobenzene-d5 (Surr)	*74*		*39 - 104*	*05/02/18 21:27*	*05/03/18 22:08*	*10*
2-Fluorobiphenyl	*78*		*42 - 113*	*05/02/18 21:27*	*05/03/18 22:08*	*10*
Terphenyl-d14 (Surr)	*72*		*43 - 125*	*05/02/18 21:27*	*05/03/18 22:08*	*10*

Client Sample ID: DP-7-10'

Date Collected: 04/26/18 16:05
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25		ug/Kg			05/04/18 11:31	1
1,1,1-Trichloroethane	ND		9.9		ug/Kg			05/04/18 11:31	1
1,1,2,2-Tetrachloroethane	ND		9.9		ug/Kg			05/04/18 11:31	1
1,1,2-Trichloroethane	ND		9.9		ug/Kg			05/04/18 11:31	1
1,1-Dichloroethane	ND		9.9		ug/Kg			05/04/18 11:31	1
1,1-Dichloroethene	ND		25		ug/Kg			05/04/18 11:31	1
1,1-Dichloropropene	ND		9.9		ug/Kg			05/04/18 11:31	1
1,2,3-Trichlorobenzene	ND		25		ug/Kg			05/04/18 11:31	1
1,2,3-Trichloropropane	ND		50		ug/Kg			05/04/18 11:31	1
1,2,4-Trichlorobenzene	ND		25		ug/Kg			05/04/18 11:31	1
1,2,4-Trimethylbenzene	**220**		9.9		ug/Kg			05/04/18 11:31	1
1,2-Dibromo-3-Chloropropane	ND		25		ug/Kg			05/04/18 11:31	1
1,2-Dibromoethane (EDB)	ND		9.9		ug/Kg			05/04/18 11:31	1
1,2-Dichlorobenzene	ND		9.9		ug/Kg			05/04/18 11:31	1
1,2-Dichloroethane	ND		9.9		ug/Kg			05/04/18 11:31	1
1,2-Dichloropropane	ND		9.9		ug/Kg			05/04/18 11:31	1
1,3,5-Trimethylbenzene	**390**		9.9		ug/Kg			05/04/18 11:31	1
1,3-Dichlorobenzene	ND		9.9		ug/Kg			05/04/18 11:31	1
1,3-Dichloropropane	ND		9.9		ug/Kg			05/04/18 11:31	1
1,4-Dichlorobenzene	ND		9.9		ug/Kg			05/04/18 11:31	1
2,2-Dichloropropane	ND		9.9		ug/Kg			05/04/18 11:31	1
2-Chlorotoluene	ND		25		ug/Kg			05/04/18 11:31	1
4-Chlorotoluene	ND		25		ug/Kg			05/04/18 11:31	1

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-7-10'
Date Collected: 04/26/18 16:05
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		9.9		ug/Kg			05/04/18 11:31	1
Bromobenzene	ND		25		ug/Kg			05/04/18 11:31	1
Bromochloromethane	ND		25		ug/Kg			05/04/18 11:31	1
Bromodichloromethane	ND		9.9		ug/Kg			05/04/18 11:31	1
Bromoform	ND		25		ug/Kg			05/04/18 11:31	1
Bromomethane	ND		25		ug/Kg			05/04/18 11:31	1
Carbon tetrachloride	ND		25		ug/Kg			05/04/18 11:31	1
Chlorobenzene	ND		9.9		ug/Kg			05/04/18 11:31	1
Chloroethane	ND		25		ug/Kg			05/04/18 11:31	1
Chloroform	ND		9.9		ug/Kg			05/04/18 11:31	1
Chloromethane	ND		25		ug/Kg			05/04/18 11:31	1
cis-1,2-Dichloroethene	ND		9.9		ug/Kg			05/04/18 11:31	1
cis-1,3-Dichloropropene	ND		9.9		ug/Kg			05/04/18 11:31	1
Dibromochloromethane	ND		9.9		ug/Kg			05/04/18 11:31	1
Dibromomethane	ND		9.9		ug/Kg			05/04/18 11:31	1
Dichlorodifluoromethane	ND		25		ug/Kg			05/04/18 11:31	1
Ethylbenzene	**290**		9.9		ug/Kg			05/04/18 11:31	1
Hexachlorobutadiene	ND		25		ug/Kg			05/04/18 11:31	1
Isopropylbenzene	**200**		9.9		ug/Kg			05/04/18 11:31	1
m,p-Xylene	ND		20		ug/Kg			05/04/18 11:31	1
Methylene Chloride	ND		99		ug/Kg			05/04/18 11:31	1
Methyl-t-Butyl Ether (MTBE)	ND		25		ug/Kg			05/04/18 11:31	1
Naphthalene	ND		25		ug/Kg			05/04/18 11:31	1
n-Butylbenzene	**440**		25		ug/Kg			05/04/18 11:31	1
N-Propylbenzene	**510**		9.9		ug/Kg			05/04/18 11:31	1
o-Xylene	ND		9.9		ug/Kg			05/04/18 11:31	1
sec-Butylbenzene	**220**		25		ug/Kg			05/04/18 11:31	1
Styrene	ND		9.9		ug/Kg			05/04/18 11:31	1
Tert-amyl-methyl ether (TAME)	ND		25		ug/Kg			05/04/18 11:31	1
tert-Butylbenzene	ND		25		ug/Kg			05/04/18 11:31	1
Tetrachloroethene	ND		9.9		ug/Kg			05/04/18 11:31	1
Toluene	ND		9.9		ug/Kg			05/04/18 11:31	1
trans-1,2-Dichloroethene	ND		9.9		ug/Kg			05/04/18 11:31	1
trans-1,3-Dichloropropene	ND		9.9		ug/Kg			05/04/18 11:31	1
Trichloroethene	ND		9.9		ug/Kg			05/04/18 11:31	1
Trichlorofluoromethane	ND		25		ug/Kg			05/04/18 11:31	1
Vinyl chloride	ND		25		ug/Kg			05/04/18 11:31	1
Xylenes, Total	ND		20		ug/Kg			05/04/18 11:31	1
Isopropyl Ether (DIPE)	ND		25		ug/Kg			05/04/18 11:31	1
Ethyl-t-butyl ether (ETBE)	ND		25		ug/Kg			05/04/18 11:31	1
tert-Butyl alcohol (TBA)	ND		500		ug/Kg			05/04/18 11:31	1
p-Isopropyltoluene	**160**		9.9		ug/Kg			05/04/18 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*79 - 123*		*05/04/18 11:31*	*1*
4-Bromofluorobenzene (Surr)	*119*		*79 - 120*		*05/04/18 11:31*	*1*
Dibromofluoromethane (Surr)	*96*		*60 - 120*		*05/04/18 11:31*	*1*

Client Sample ID: DP-7-10'

Lab Sample ID: 440-210294-7
Matrix: Solid
Date Collected: 04/26/18 16:05
Date Received: 05/02/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		8600		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
2-Methylnaphthalene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
2-Methylphenol	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
3-Methylphenol + 4-Methylphenol	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
4-Chloro-3-methylphenol	ND		9900		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Acenaphthene	ND		8600		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Acenaphthylene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Anthracene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Benzo[a]anthracene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Benzo[a]pyrene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Benzo[b]fluoranthene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Benzo[g,h,i]perylene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Benzo[k]fluoranthene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Carbazole	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Chrysene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Dibenz(a,h)anthracene	ND		10000		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Dibenzofuran	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Fluoranthene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Fluorene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Indeno[1,2,3-cd]pyrene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Naphthalene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Pentachlorophenol	ND		20000		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Phenanthrene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Phenol	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Pyrene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 22:31	25
Pyridine	ND		8400		ug/Kg		05/02/18 21:27	05/03/18 22:31	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*58*		*10 - 147*	*05/02/18 21:27*	*05/03/18 22:31*	*25*
2-Fluorophenol (Surr)	*51*		*18 - 138*	*05/02/18 21:27*	*05/03/18 22:31*	*25*
Phenol-d6 (Surr)	*56*		*37 - 125*	*05/02/18 21:27*	*05/03/18 22:31*	*25*
Nitrobenzene-d5 (Surr)	*65*		*39 - 104*	*05/02/18 21:27*	*05/03/18 22:31*	*25*
2-Fluorobiphenyl	*71*		*42 - 113*	*05/02/18 21:27*	*05/03/18 22:31*	*25*
Terphenyl-d14 (Surr)	*59*		*43 - 125*	*05/02/18 21:27*	*05/03/18 22:31*	*25*

Client Sample ID: DP-8-14'

Lab Sample ID: 440-210294-8
Matrix: Solid
Date Collected: 04/26/18 17:00
Date Received: 05/02/18 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		24		ug/Kg			05/04/18 11:58	1
1,1,1-Trichloroethane	ND		9.7		ug/Kg			05/04/18 11:58	1
1,1,2,2-Tetrachloroethane	ND		9.7		ug/Kg			05/04/18 11:58	1
1,1,2-Trichloroethane	ND		9.7		ug/Kg			05/04/18 11:58	1
1,1-Dichloroethane	ND		9.7		ug/Kg			05/04/18 11:58	1
1,1-Dichloroethene	ND		24		ug/Kg			05/04/18 11:58	1
1,1-Dichloropropene	ND		9.7		ug/Kg			05/04/18 11:58	1
1,2,3-Trichlorobenzene	ND		24		ug/Kg			05/04/18 11:58	1
1,2,3-Trichloropropane	ND		49		ug/Kg			05/04/18 11:58	1

Client Sample ID: DP-8-14'
Date Collected: 04/26/18 17:00
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		24		ug/Kg			05/04/18 11:58	1
1,2,4-Trimethylbenzene	ND		9.7		ug/Kg			05/04/18 11:58	1
1,2-Dibromo-3-Chloropropane	ND		24		ug/Kg			05/04/18 11:58	1
1,2-Dibromoethane (EDB)	ND		9.7		ug/Kg			05/04/18 11:58	1
1,2-Dichlorobenzene	ND		9.7		ug/Kg			05/04/18 11:58	1
1,2-Dichloroethane	ND		9.7		ug/Kg			05/04/18 11:58	1
1,2-Dichloropropane	ND		9.7		ug/Kg			05/04/18 11:58	1
1,3,5-Trimethylbenzene	ND		9.7		ug/Kg			05/04/18 11:58	1
1,3-Dichlorobenzene	ND		9.7		ug/Kg			05/04/18 11:58	1
1,3-Dichloropropane	ND		9.7		ug/Kg			05/04/18 11:58	1
1,4-Dichlorobenzene	ND		9.7		ug/Kg			05/04/18 11:58	1
2,2-Dichloropropane	ND		9.7		ug/Kg			05/04/18 11:58	1
2-Chlorotoluene	ND		24		ug/Kg			05/04/18 11:58	1
4-Chlorotoluene	ND		24		ug/Kg			05/04/18 11:58	1
Benzene	ND		9.7		ug/Kg			05/04/18 11:58	1
Bromobenzene	ND		24		ug/Kg			05/04/18 11:58	1
Bromochloromethane	ND		24		ug/Kg			05/04/18 11:58	1
Bromodichloromethane	ND		9.7		ug/Kg			05/04/18 11:58	1
Bromoform	ND		24		ug/Kg			05/04/18 11:58	1
Bromomethane	ND		24		ug/Kg			05/04/18 11:58	1
Carbon tetrachloride	ND		24		ug/Kg			05/04/18 11:58	1
Chlorobenzene	ND		9.7		ug/Kg			05/04/18 11:58	1
Chloroethane	ND		24		ug/Kg			05/04/18 11:58	1
Chloroform	ND		9.7		ug/Kg			05/04/18 11:58	1
Chloromethane	ND		24		ug/Kg			05/04/18 11:58	1
cis-1,2-Dichloroethene	ND		9.7		ug/Kg			05/04/18 11:58	1
cis-1,3-Dichloropropene	ND		9.7		ug/Kg			05/04/18 11:58	1
Dibromochloromethane	ND		9.7		ug/Kg			05/04/18 11:58	1
Dibromomethane	ND		9.7		ug/Kg			05/04/18 11:58	1
Dichlorodifluoromethane	ND		24		ug/Kg			05/04/18 11:58	1
Ethylbenzene	ND		9.7		ug/Kg			05/04/18 11:58	1
Hexachlorobutadiene	ND		24		ug/Kg			05/04/18 11:58	1
Isopropylbenzene	ND		9.7		ug/Kg			05/04/18 11:58	1
m,p-Xylene	ND		19		ug/Kg			05/04/18 11:58	1
Methylene Chloride	ND		97		ug/Kg			05/04/18 11:58	1
Methyl-t-Butyl Ether (MTBE)	ND		24		ug/Kg			05/04/18 11:58	1
Naphthalene	ND		24		ug/Kg			05/04/18 11:58	1
n-Butylbenzene	ND		24		ug/Kg			05/04/18 11:58	1
N-Propylbenzene	ND		9.7		ug/Kg			05/04/18 11:58	1
o-Xylene	ND		9.7		ug/Kg			05/04/18 11:58	1
sec-Butylbenzene	ND		24		ug/Kg			05/04/18 11:58	1
Styrene	ND		9.7		ug/Kg			05/04/18 11:58	1
Tert-amyl-methyl ether (TAME)	ND		24		ug/Kg			05/04/18 11:58	1
tert-Butylbenzene	ND		24		ug/Kg			05/04/18 11:58	1
Tetrachloroethene	ND		9.7		ug/Kg			05/04/18 11:58	1
Toluene	ND		9.7		ug/Kg			05/04/18 11:58	1
trans-1,2-Dichloroethene	ND		9.7		ug/Kg			05/04/18 11:58	1
trans-1,3-Dichloropropene	ND		9.7		ug/Kg			05/04/18 11:58	1
Trichloroethene	ND		9.7		ug/Kg			05/04/18 11:58	1

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-8-14'
Date Collected: 04/26/18 17:00
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		24		ug/Kg			05/04/18 11:58	1
Vinyl chloride	ND		24		ug/Kg			05/04/18 11:58	1
Xylenes, Total	ND		19		ug/Kg			05/04/18 11:58	1
Isopropyl Ether (DIPE)	ND		24		ug/Kg			05/04/18 11:58	1
Ethyl-t-butyl ether (ETBE)	ND		24		ug/Kg			05/04/18 11:58	1
tert-Butyl alcohol (TBA)	ND		490		ug/Kg			05/04/18 11:58	1
p-Isopropyltoluene	ND		9.7		ug/Kg			05/04/18 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*79 - 123*		*05/04/18 11:58*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*		*05/04/18 11:58*	*1*
Dibromofluoromethane (Surr)	*97*		*60 - 120*		*05/04/18 11:58*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		340		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
2-Methylnaphthalene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
2-Methylphenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
3-Methylphenol + 4-Methylphenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
4-Chloro-3-methylphenol	ND		390		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Acenaphthene	ND		340		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Acenaphthylene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Anthracene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Benzo[a]anthracene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Benzo[a]pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Benzo[b]fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Benzo[g,h,i]perylene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Benzo[k]fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Carbazole	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Chrysene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Dibenz(a,h)anthracene	ND		410		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Dibenzofuran	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Fluorene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Indeno[1,2,3-cd]pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Naphthalene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Pentachlorophenol	ND		810		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Phenanthrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Phenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 02:43	1
Pyridine	ND		330		ug/Kg		05/02/18 21:27	05/04/18 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*10 - 147*	*05/02/18 21:27*	*05/04/18 02:43*	*1*
2-Fluorophenol (Surr)	*81*		*18 - 138*	*05/02/18 21:27*	*05/04/18 02:43*	*1*
Phenol-d6 (Surr)	*77*		*37 - 125*	*05/02/18 21:27*	*05/04/18 02:43*	*1*
Nitrobenzene-d5 (Surr)	*81*		*39 - 104*	*05/02/18 21:27*	*05/04/18 02:43*	*1*
2-Fluorobiphenyl	*86*		*42 - 113*	*05/02/18 21:27*	*05/04/18 02:43*	*1*
Terphenyl-d14 (Surr)	*84*		*43 - 125*	*05/02/18 21:27*	*05/04/18 02:43*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-9-12'
Date Collected: 04/27/18 09:15
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		24		ug/Kg			05/04/18 10:37	1
1,1,1-Trichloroethane	ND		9.5		ug/Kg			05/04/18 10:37	1
1,1,2,2-Tetrachloroethane	ND		9.5		ug/Kg			05/04/18 10:37	1
1,1,2-Trichloroethane	ND		9.5		ug/Kg			05/04/18 10:37	1
1,1-Dichloroethane	ND		9.5		ug/Kg			05/04/18 10:37	1
1,1-Dichloroethene	ND		24		ug/Kg			05/04/18 10:37	1
1,1-Dichloropropene	ND		9.5		ug/Kg			05/04/18 10:37	1
1,2,3-Trichlorobenzene	ND		24		ug/Kg			05/04/18 10:37	1
1,2,3-Trichloropropane	ND		48		ug/Kg			05/04/18 10:37	1
1,2,4-Trichlorobenzene	ND		24		ug/Kg			05/04/18 10:37	1
1,2,4-Trimethylbenzene	**16**		9.5		ug/Kg			05/04/18 10:37	1
1,2-Dibromo-3-Chloropropane	ND		24		ug/Kg			05/04/18 10:37	1
1,2-Dibromoethane (EDB)	ND		9.5		ug/Kg			05/04/18 10:37	1
1,2-Dichlorobenzene	ND		9.5		ug/Kg			05/04/18 10:37	1
1,2-Dichloroethane	ND		9.5		ug/Kg			05/04/18 10:37	1
1,2-Dichloropropane	ND		9.5		ug/Kg			05/04/18 10:37	1
1,3,5-Trimethylbenzene	ND		9.5		ug/Kg			05/04/18 10:37	1
1,3-Dichlorobenzene	ND		9.5		ug/Kg			05/04/18 10:37	1
1,3-Dichloropropane	ND		9.5		ug/Kg			05/04/18 10:37	1
1,4-Dichlorobenzene	ND		9.5		ug/Kg			05/04/18 10:37	1
2,2-Dichloropropane	ND		9.5		ug/Kg			05/04/18 10:37	1
2-Chlorotoluene	ND		24		ug/Kg			05/04/18 10:37	1
4-Chlorotoluene	ND		24		ug/Kg			05/04/18 10:37	1
Benzene	ND		9.5		ug/Kg			05/04/18 10:37	1
Bromobenzene	ND		24		ug/Kg			05/04/18 10:37	1
Bromochloromethane	ND		24		ug/Kg			05/04/18 10:37	1
Bromodichloromethane	ND		9.5		ug/Kg			05/04/18 10:37	1
Bromoform	ND		24		ug/Kg			05/04/18 10:37	1
Bromomethane	ND		24		ug/Kg			05/04/18 10:37	1
Carbon tetrachloride	ND		24		ug/Kg			05/04/18 10:37	1
Chlorobenzene	ND		9.5		ug/Kg			05/04/18 10:37	1
Chloroethane	ND		24		ug/Kg			05/04/18 10:37	1
Chloroform	ND		9.5		ug/Kg			05/04/18 10:37	1
Chloromethane	ND		24		ug/Kg			05/04/18 10:37	1
cis-1,2-Dichloroethene	ND		9.5		ug/Kg			05/04/18 10:37	1
cis-1,3-Dichloropropene	ND		9.5		ug/Kg			05/04/18 10:37	1
Dibromochloromethane	ND		9.5		ug/Kg			05/04/18 10:37	1
Dibromomethane	ND		9.5		ug/Kg			05/04/18 10:37	1
Dichlorodifluoromethane	ND		24		ug/Kg			05/04/18 10:37	1
Ethylbenzene	ND		9.5		ug/Kg			05/04/18 10:37	1
Hexachlorobutadiene	ND		24		ug/Kg			05/04/18 10:37	1
Isopropylbenzene	ND		9.5		ug/Kg			05/04/18 10:37	1
m,p-Xylene	ND		19		ug/Kg			05/04/18 10:37	1
Methylene Chloride	ND		95		ug/Kg			05/04/18 10:37	1
Methyl-t-Butyl Ether (MTBE)	ND		24		ug/Kg			05/04/18 10:37	1
Naphthalene	ND		24		ug/Kg			05/04/18 10:37	1
n-Butylbenzene	**31**		24		ug/Kg			05/04/18 10:37	1
N-Propylbenzene	**12**		9.5		ug/Kg			05/04/18 10:37	1
o-Xylene	ND		9.5		ug/Kg			05/04/18 10:37	1

Client Sample ID: DP-9-12'
Date Collected: 04/27/18 09:15
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	**27**		24		ug/Kg			05/04/18 10:37	1
Styrene	ND		9.5		ug/Kg			05/04/18 10:37	1
Tert-amyl-methyl ether (TAME)	ND		24		ug/Kg			05/04/18 10:37	1
tert-Butylbenzene	ND		24		ug/Kg			05/04/18 10:37	1
Tetrachloroethene	ND		9.5		ug/Kg			05/04/18 10:37	1
Toluene	ND		9.5		ug/Kg			05/04/18 10:37	1
trans-1,2-Dichloroethene	ND		9.5		ug/Kg			05/04/18 10:37	1
trans-1,3-Dichloropropene	ND		9.5		ug/Kg			05/04/18 10:37	1
Trichloroethene	ND		9.5		ug/Kg			05/04/18 10:37	1
Trichlorofluoromethane	ND		24		ug/Kg			05/04/18 10:37	1
Vinyl chloride	ND		24		ug/Kg			05/04/18 10:37	1
Xylenes, Total	ND		19		ug/Kg			05/04/18 10:37	1
Isopropyl Ether (DIPE)	ND		24		ug/Kg			05/04/18 10:37	1
Ethyl-t-butyl ether (ETBE)	ND		24		ug/Kg			05/04/18 10:37	1
tert-Butyl alcohol (TBA)	ND		480		ug/Kg			05/04/18 10:37	1
p-Isopropyltoluene	**12**		9.5		ug/Kg			05/04/18 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*79 - 123*		*05/04/18 10:37*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*05/04/18 10:37*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 120*		*05/04/18 10:37*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		1700		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
2-Methylnaphthalene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
2-Methylphenol	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
3-Methylphenol + 4-Methylphenol	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
4-Chloro-3-methylphenol	ND		2000		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Acenaphthene	ND		1700		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Acenaphthylene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Anthracene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Benzo[a]anthracene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Benzo[a]pyrene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Benzo[b]fluoranthene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Benzo[g,h,i]perylene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Benzo[k]fluoranthene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Carbazole	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Chrysene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Dibenz(a,h)anthracene	ND		2100		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Dibenzofuran	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Fluoranthene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Fluorene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Indeno[1,2,3-cd]pyrene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Naphthalene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Pentachlorophenol	ND		4100		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Phenanthrene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Phenol	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Pyrene	ND		1600		ug/Kg		05/02/18 21:27	05/03/18 22:53	5
Pyridine	ND		1700		ug/Kg		05/02/18 21:27	05/03/18 22:53	5

Client Sample ID: DP-9-12'

Lab Sample ID: 440-210294-9

Date Collected: 04/27/18 09:15

Matrix: Solid

Date Received: 05/02/18 09:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	71		10 - 147	05/02/18 21:27	05/03/18 22:53	5
2-Fluorophenol (Surr)	58		18 - 138	05/02/18 21:27	05/03/18 22:53	5
Phenol-d6 (Surr)	64		37 - 125	05/02/18 21:27	05/03/18 22:53	5
Nitrobenzene-d5 (Surr)	64		39 - 104	05/02/18 21:27	05/03/18 22:53	5
2-Fluorobiphenyl	68		42 - 113	05/02/18 21:27	05/03/18 22:53	5
Terphenyl-d14 (Surr)	68		43 - 125	05/02/18 21:27	05/03/18 22:53	5

Client Sample ID: DP-10-20'

Lab Sample ID: 440-210294-10

Date Collected: 04/27/18 10:35

Matrix: Solid

Date Received: 05/02/18 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/03/18 18:00	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/03/18 18:00	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/03/18 18:00	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/03/18 18:00	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/03/18 18:00	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/03/18 18:00	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/03/18 18:00	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 18:00	1
1,2,3-Trichloropropane	ND		10		ug/Kg			05/03/18 18:00	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 18:00	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 18:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			05/03/18 18:00	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/03/18 18:00	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 18:00	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/03/18 18:00	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 18:00	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 18:00	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 18:00	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/03/18 18:00	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 18:00	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 18:00	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 18:00	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 18:00	1
Benzene	ND		2.0		ug/Kg			05/03/18 18:00	1
Bromobenzene	ND		5.0		ug/Kg			05/03/18 18:00	1
Bromochloromethane	ND		5.0		ug/Kg			05/03/18 18:00	1
Bromodichloromethane	ND		2.0		ug/Kg			05/03/18 18:00	1
Bromoform	ND		5.0		ug/Kg			05/03/18 18:00	1
Bromomethane	ND		5.0		ug/Kg			05/03/18 18:00	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/03/18 18:00	1
Chlorobenzene	ND		2.0		ug/Kg			05/03/18 18:00	1
Chloroethane	ND		5.0		ug/Kg			05/03/18 18:00	1
Chloroform	ND		2.0		ug/Kg			05/03/18 18:00	1
Chloromethane	ND		5.0		ug/Kg			05/03/18 18:00	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 18:00	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 18:00	1
Dibromochloromethane	ND		2.0		ug/Kg			05/03/18 18:00	1

Client Sample ID: DP-10-20'
Date Collected: 04/27/18 10:35
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-10
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		2.0		ug/Kg			05/03/18 18:00	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			05/03/18 18:00	1
Ethylbenzene	ND		2.0		ug/Kg			05/03/18 18:00	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/03/18 18:00	1
Isopropylbenzene	ND		2.0		ug/Kg			05/03/18 18:00	1
m,p-Xylene	ND		4.0		ug/Kg			05/03/18 18:00	1
Methylene Chloride	ND		20		ug/Kg			05/03/18 18:00	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			05/03/18 18:00	1
Naphthalene	ND		5.0		ug/Kg			05/03/18 18:00	1
n-Butylbenzene	ND		5.0		ug/Kg			05/03/18 18:00	1
N-Propylbenzene	ND		2.0		ug/Kg			05/03/18 18:00	1
o-Xylene	ND		2.0		ug/Kg			05/03/18 18:00	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/03/18 18:00	1
Styrene	ND		2.0		ug/Kg			05/03/18 18:00	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/Kg			05/03/18 18:00	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/03/18 18:00	1
Tetrachloroethene	ND		2.0		ug/Kg			05/03/18 18:00	1
Toluene	ND		2.0		ug/Kg			05/03/18 18:00	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 18:00	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 18:00	1
Trichloroethene	ND		2.0		ug/Kg			05/03/18 18:00	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/03/18 18:00	1
Vinyl chloride	ND		5.0		ug/Kg			05/03/18 18:00	1
Xylenes, Total	ND		4.0		ug/Kg			05/03/18 18:00	1
Isopropyl Ether (DIPE)	ND		5.0		ug/Kg			05/03/18 18:00	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			05/03/18 18:00	1
tert-Butyl alcohol (TBA)	ND	*	100		ug/Kg			05/03/18 18:00	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/03/18 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*79 - 123*		*05/03/18 18:00*	*1*
4-Bromofluorobenzene (Surr)	*119*		*79 - 120*		*05/03/18 18:00*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*05/03/18 18:00*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
2-Methylnaphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
2-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
4-Chloro-3-methylphenol	ND		400		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Acenaphthene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Acenaphthylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Benzo[a]anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Benzo[a]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Benzo[b]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Benzo[k]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Carbazole	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1

Client Sample ID: DP-10-20'

Date Collected: 04/27/18 10:35
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-10
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Dibenz(a,h)anthracene	ND		420		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Dibenzofuran	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Fluorene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Naphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Pentachlorophenol	ND		820		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Phenanthrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Phenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:08	1
Pyridine	ND		340		ug/Kg		05/02/18 21:27	05/04/18 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*10 - 147*	*05/02/18 21:27*	*05/04/18 03:08*	*1*
2-Fluorophenol (Surr)	*61*		*18 - 138*	*05/02/18 21:27*	*05/04/18 03:08*	*1*
Phenol-d6 (Surr)	*59*		*37 - 125*	*05/02/18 21:27*	*05/04/18 03:08*	*1*
Nitrobenzene-d5 (Surr)	*57*		*39 - 104*	*05/02/18 21:27*	*05/04/18 03:08*	*1*
2-Fluorobiphenyl	*63*		*42 - 113*	*05/02/18 21:27*	*05/04/18 03:08*	*1*
Terphenyl-d14 (Surr)	*59*		*43 - 125*	*05/02/18 21:27*	*05/04/18 03:08*	*1*

Client Sample ID: DP-11-5'

Date Collected: 04/27/18 11:28
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-11
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,1,1-Trichloroethane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,1,2,2-Tetrachloroethane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,1,2-Trichloroethane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,1-Dichloroethane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,1-Dichloroethene	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,1-Dichloropropene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,2,3-Trichlorobenzene	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,2,3-Trichloropropane	ND		10000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,2,4-Trichlorobenzene	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,2,4-Trimethylbenzene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,2-Dibromo-3-Chloropropane	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,2-Dibromoethane (EDB)	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,2-Dichlorobenzene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,2-Dichloroethane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,2-Dichloropropane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,3,5-Trimethylbenzene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,3-Dichlorobenzene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,3-Dichloropropane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
1,4-Dichlorobenzene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
2,2-Dichloropropane	ND		4000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
2-Chlorotoluene	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
4-Chlorotoluene	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000

Client Sample ID: DP-11-5'
Date Collected: 04/27/18 11:28
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-11
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Bromobenzene	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Bromochloromethane	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Bromodichloromethane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Bromoform	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Bromomethane	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Carbon tetrachloride	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Chlorobenzene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Chloroethane	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Chloroform	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Chloromethane	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
cis-1,2-Dichloroethene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
cis-1,3-Dichloropropene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Dibromochloromethane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Dibromomethane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Dichlorodifluoromethane	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Ethylbenzene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Hexachlorobutadiene	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Isopropylbenzene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
m,p-Xylene	ND		4000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Methylene Chloride	ND		20000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Methyl-t-Butyl Ether (MTBE)	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Naphthalene	**110000**		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
n-Butylbenzene	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
N-Propylbenzene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
o-Xylene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
sec-Butylbenzene	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Styrene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Tert-amyl-methyl ether (TAME)	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
tert-Butylbenzene	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Tetrachloroethene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Toluene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
trans-1,2-Dichloroethene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
trans-1,3-Dichloropropene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Trichloroethene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Trichlorofluoromethane	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Vinyl chloride	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Xylenes, Total	ND		4000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Isopropyl Ether (DIPE)	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
Ethyl-t-butyl ether (ETBE)	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
tert-Butyl alcohol (TBA)	ND		100000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000
p-Isopropyltoluene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 15:39	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*116*		*60 - 140*	*05/04/18 07:35*	*05/05/18 15:39*	*2000*
4-Bromofluorobenzene (Surr)	*115*		*65 - 140*	*05/04/18 07:35*	*05/05/18 15:39*	*2000*
Dibromofluoromethane (Surr)	*104*		*55 - 140*	*05/04/18 07:35*	*05/05/18 15:39*	*2000*

Client Sample ID: DP-11-5'

Lab Sample ID: 440-210294-11

Date Collected: 04/27/18 11:28

Matrix: Solid

Date Received: 05/02/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**20000**		8600		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
2-Methylnaphthalene	**34000**		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
2-Methylphenol	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
3-Methylphenol + 4-Methylphenol	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
4-Chloro-3-methylphenol	ND		9800		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Acenaphthene	**23000**		8600		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Acenaphthylene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Anthracene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Benzo[a]anthracene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Benzo[a]pyrene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Benzo[b]fluoranthene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Benzo[g,h,i]perylene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Benzo[k]fluoranthene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Carbazole	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Chrysene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Dibenz(a,h)anthracene	ND		10000		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Dibenzofuran	**16000**		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Fluoranthene	**26000**		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Fluorene	**21000**		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Indeno[1,2,3-cd]pyrene	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Naphthalene	**59000**		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Pentachlorophenol	ND		20000		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Phenanthrene	**55000**		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Phenol	ND		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Pyrene	**17000**		8100		ug/Kg		05/02/18 21:27	05/03/18 23:16	25
Pyridine	ND		8300		ug/Kg		05/02/18 21:27	05/03/18 23:16	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*48*		*10 - 147*	*05/02/18 21:27*	*05/03/18 23:16*	*25*
2-Fluorophenol (Surr)	*35*		*18 - 138*	*05/02/18 21:27*	*05/03/18 23:16*	*25*
Phenol-d6 (Surr)	*34*	*X*	*37 - 125*	*05/02/18 21:27*	*05/03/18 23:16*	*25*
Nitrobenzene-d5 (Surr)	*44*		*39 - 104*	*05/02/18 21:27*	*05/03/18 23:16*	*25*
2-Fluorobiphenyl	*52*		*42 - 113*	*05/02/18 21:27*	*05/03/18 23:16*	*25*
Terphenyl-d14 (Surr)	*51*		*43 - 125*	*05/02/18 21:27*	*05/03/18 23:16*	*25*

Client Sample ID: DP-12-4'

Lab Sample ID: 440-210294-12

Date Collected: 04/27/18 12:35

Matrix: Solid

Date Received: 05/02/18 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/04/18 12:25	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/04/18 12:25	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/04/18 12:25	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/04/18 12:25	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/04/18 12:25	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/04/18 12:25	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/04/18 12:25	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/04/18 12:25	1
1,2,3-Trichloropropane	ND		10		ug/Kg			05/04/18 12:25	1

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-12-4'
Date Collected: 04/27/18 12:35
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-12
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/04/18 12:25	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/04/18 12:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			05/04/18 12:25	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/04/18 12:25	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 12:25	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/04/18 12:25	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/04/18 12:25	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/04/18 12:25	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 12:25	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/04/18 12:25	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 12:25	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/04/18 12:25	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/04/18 12:25	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/04/18 12:25	1
Benzene	ND		2.0		ug/Kg			05/04/18 12:25	1
Bromobenzene	ND		5.0		ug/Kg			05/04/18 12:25	1
Bromochloromethane	ND		5.0		ug/Kg			05/04/18 12:25	1
Bromodichloromethane	ND		2.0		ug/Kg			05/04/18 12:25	1
Bromoform	ND		5.0		ug/Kg			05/04/18 12:25	1
Bromomethane	ND		5.0		ug/Kg			05/04/18 12:25	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/04/18 12:25	1
Chlorobenzene	ND		2.0		ug/Kg			05/04/18 12:25	1
Chloroethane	ND		5.0		ug/Kg			05/04/18 12:25	1
Chloroform	ND		2.0		ug/Kg			05/04/18 12:25	1
Chloromethane	ND		5.0		ug/Kg			05/04/18 12:25	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/04/18 12:25	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/04/18 12:25	1
Dibromochloromethane	ND		2.0		ug/Kg			05/04/18 12:25	1
Dibromomethane	ND		2.0		ug/Kg			05/04/18 12:25	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			05/04/18 12:25	1
Ethylbenzene	ND		2.0		ug/Kg			05/04/18 12:25	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/04/18 12:25	1
Isopropylbenzene	ND		2.0		ug/Kg			05/04/18 12:25	1
m,p-Xylene	ND		4.0		ug/Kg			05/04/18 12:25	1
Methylene Chloride	ND		20		ug/Kg			05/04/18 12:25	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			05/04/18 12:25	1
Naphthalene	ND		5.0		ug/Kg			05/04/18 12:25	1
n-Butylbenzene	ND		5.0		ug/Kg			05/04/18 12:25	1
N-Propylbenzene	ND		2.0		ug/Kg			05/04/18 12:25	1
o-Xylene	ND		2.0		ug/Kg			05/04/18 12:25	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/04/18 12:25	1
Styrene	ND		2.0		ug/Kg			05/04/18 12:25	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/Kg			05/04/18 12:25	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/04/18 12:25	1
Tetrachloroethene	ND		2.0		ug/Kg			05/04/18 12:25	1
Toluene	ND		2.0		ug/Kg			05/04/18 12:25	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/04/18 12:25	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/04/18 12:25	1
Trichloroethene	ND		2.0		ug/Kg			05/04/18 12:25	1

Client Sample ID: DP-12-4'
Date Collected: 04/27/18 12:35
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-12
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		5.0		ug/Kg			05/04/18 12:25	1
Vinyl chloride	ND		5.0		ug/Kg			05/04/18 12:25	1
Xylenes, Total	ND		4.0		ug/Kg			05/04/18 12:25	1
Isopropyl Ether (DIPE)	ND		5.0		ug/Kg			05/04/18 12:25	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			05/04/18 12:25	1
tert-Butyl alcohol (TBA)	ND		100		ug/Kg			05/04/18 12:25	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/04/18 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*79 - 123*		*05/04/18 12:25*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*		*05/04/18 12:25*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*05/04/18 12:25*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		340		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
2-Methylnaphthalene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
2-Methylphenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
3-Methylphenol + 4-Methylphenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
4-Chloro-3-methylphenol	ND		390		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Acenaphthene	ND		340		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Acenaphthylene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Anthracene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Benzo[a]anthracene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Benzo[a]pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Benzo[b]fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Benzo[g,h,i]perylene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Benzo[k]fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Carbazole	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Chrysene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Dibenz(a,h)anthracene	ND		410		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Dibenzofuran	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Fluorene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Indeno[1,2,3-cd]pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Naphthalene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Pentachlorophenol	ND		810		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Phenanthrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Phenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 03:32	1
Pyridine	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*10 - 147*	*05/02/18 21:27*	*05/04/18 03:32*	*1*
2-Fluorophenol (Surr)	*73*		*18 - 138*	*05/02/18 21:27*	*05/04/18 03:32*	*1*
Phenol-d6 (Surr)	*69*		*37 - 125*	*05/02/18 21:27*	*05/04/18 03:32*	*1*
Nitrobenzene-d5 (Surr)	*69*		*39 - 104*	*05/02/18 21:27*	*05/04/18 03:32*	*1*
2-Fluorobiphenyl	*75*		*42 - 113*	*05/02/18 21:27*	*05/04/18 03:32*	*1*
Terphenyl-d14 (Surr)	*73*		*43 - 125*	*05/02/18 21:27*	*05/04/18 03:32*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-13-10'
Date Collected: 04/27/18 13:12
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-13
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/04/18 12:52	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/04/18 12:52	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/04/18 12:52	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/04/18 12:52	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/04/18 12:52	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/04/18 12:52	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/04/18 12:52	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/04/18 12:52	1
1,2,3-Trichloropropane	ND		10		ug/Kg			05/04/18 12:52	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/04/18 12:52	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/04/18 12:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			05/04/18 12:52	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/04/18 12:52	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 12:52	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/04/18 12:52	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/04/18 12:52	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/04/18 12:52	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 12:52	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/04/18 12:52	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 12:52	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/04/18 12:52	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/04/18 12:52	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/04/18 12:52	1
Benzene	ND		2.0		ug/Kg			05/04/18 12:52	1
Bromobenzene	ND		5.0		ug/Kg			05/04/18 12:52	1
Bromochloromethane	ND		5.0		ug/Kg			05/04/18 12:52	1
Bromodichloromethane	ND		2.0		ug/Kg			05/04/18 12:52	1
Bromoform	ND		5.0		ug/Kg			05/04/18 12:52	1
Bromomethane	ND		5.0		ug/Kg			05/04/18 12:52	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/04/18 12:52	1
Chlorobenzene	ND		2.0		ug/Kg			05/04/18 12:52	1
Chloroethane	ND		5.0		ug/Kg			05/04/18 12:52	1
Chloroform	ND		2.0		ug/Kg			05/04/18 12:52	1
Chloromethane	ND		5.0		ug/Kg			05/04/18 12:52	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/04/18 12:52	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/04/18 12:52	1
Dibromochloromethane	ND		2.0		ug/Kg			05/04/18 12:52	1
Dibromomethane	ND		2.0		ug/Kg			05/04/18 12:52	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			05/04/18 12:52	1
Ethylbenzene	ND		2.0		ug/Kg			05/04/18 12:52	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/04/18 12:52	1
Isopropylbenzene	ND		2.0		ug/Kg			05/04/18 12:52	1
m,p-Xylene	ND		4.0		ug/Kg			05/04/18 12:52	1
Methylene Chloride	ND		20		ug/Kg			05/04/18 12:52	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			05/04/18 12:52	1
Naphthalene	ND		5.0		ug/Kg			05/04/18 12:52	1
n-Butylbenzene	ND		5.0		ug/Kg			05/04/18 12:52	1
N-Propylbenzene	ND		2.0		ug/Kg			05/04/18 12:52	1
o-Xylene	ND		2.0		ug/Kg			05/04/18 12:52	1

Client Sample ID: DP-13-10'
Date Collected: 04/27/18 13:12
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-13
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0		ug/Kg			05/04/18 12:52	1
Styrene	ND		2.0		ug/Kg			05/04/18 12:52	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/Kg			05/04/18 12:52	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/04/18 12:52	1
Tetrachloroethene	ND		2.0		ug/Kg			05/04/18 12:52	1
Toluene	ND		2.0		ug/Kg			05/04/18 12:52	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/04/18 12:52	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/04/18 12:52	1
Trichloroethene	ND		2.0		ug/Kg			05/04/18 12:52	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/04/18 12:52	1
Vinyl chloride	ND		5.0		ug/Kg			05/04/18 12:52	1
Xylenes, Total	ND		4.0		ug/Kg			05/04/18 12:52	1
Isopropyl Ether (DIPE)	ND		5.0		ug/Kg			05/04/18 12:52	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			05/04/18 12:52	1
tert-Butyl alcohol (TBA)	ND		100		ug/Kg			05/04/18 12:52	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/04/18 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*79 - 123*		*05/04/18 12:52*	*1*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*		*05/04/18 12:52*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*05/04/18 12:52*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
2-Methylnaphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
2-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
4-Chloro-3-methylphenol	ND		400		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Acenaphthene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Acenaphthylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Benzo[a]anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Benzo[a]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Benzo[b]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Benzo[k]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Carbazole	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Chrysene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Dibenz(a,h)anthracene	ND		420		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Dibenzofuran	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Fluorene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Naphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Pentachlorophenol	ND		830		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Phenanthrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Phenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 03:56	1
Pyridine	ND		340		ug/Kg		05/02/18 21:27	05/04/18 03:56	1

Client Sample ID: DP-13-10'

Lab Sample ID: 440-210294-13

Date Collected: 04/27/18 13:12

Matrix: Solid

Date Received: 05/02/18 09:30

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 147*	*05/02/18 21:27*	*05/04/18 03:56*	*1*
2-Fluorophenol (Surr)	*80*		*18 - 138*	*05/02/18 21:27*	*05/04/18 03:56*	*1*
Phenol-d6 (Surr)	*75*		*37 - 125*	*05/02/18 21:27*	*05/04/18 03:56*	*1*
Nitrobenzene-d5 (Surr)	*75*		*39 - 104*	*05/02/18 21:27*	*05/04/18 03:56*	*1*
2-Fluorobiphenyl	*81*		*42 - 113*	*05/02/18 21:27*	*05/04/18 03:56*	*1*
Terphenyl-d14 (Surr)	*83*		*43 - 125*	*05/02/18 21:27*	*05/04/18 03:56*	*1*

Client Sample ID: DP-14-6'

Lab Sample ID: 440-210294-14

Date Collected: 04/27/18 14:05

Matrix: Solid

Date Received: 05/02/18 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,1,1-Trichloroethane	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,1,2,2-Tetrachloroethane	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,1,2-Trichloroethane	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,1-Dichloroethane	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,1-Dichloroethene	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,1-Dichloropropene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,2,3-Trichlorobenzene	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,2,3-Trichloropropane	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,2,4-Trichlorobenzene	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,2,4-Trimethylbenzene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,2-Dibromo-3-Chloropropane	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,2-Dibromoethane (EDB)	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,2-Dichlorobenzene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,2-Dichloroethane	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,2-Dichloropropane	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,3,5-Trimethylbenzene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,3-Dichlorobenzene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,3-Dichloropropane	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
1,4-Dichlorobenzene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
2,2-Dichloropropane	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
2-Chlorotoluene	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
4-Chlorotoluene	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Benzene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Bromobenzene	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Bromochloromethane	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Bromodichloromethane	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Bromoform	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Bromomethane	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Carbon tetrachloride	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Chlorobenzene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Chloroethane	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Chloroform	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Chloromethane	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
cis-1,2-Dichloroethene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
cis-1,3-Dichloropropene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Dibromochloromethane	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000

Client Sample ID: DP-14-6'
Date Collected: 04/27/18 14:05
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-14
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Dichlorodifluoromethane	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Ethylbenzene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Hexachlorobutadiene	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Isopropylbenzene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
m,p-Xylene	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Methylene Chloride	ND		10000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Methyl-t-Butyl Ether (MTBE)	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Naphthalene	**68000**		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
n-Butylbenzene	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
N-Propylbenzene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
o-Xylene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
sec-Butylbenzene	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Styrene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Tert-amyl-methyl ether (TAME)	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
tert-Butylbenzene	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Tetrachloroethene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Toluene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
trans-1,2-Dichloroethene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
trans-1,3-Dichloropropene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Trichloroethene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Trichlorofluoromethane	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Vinyl chloride	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Xylenes, Total	ND		2000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Isopropyl Ether (DIPE)	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
Ethyl-t-butyl ether (ETBE)	ND		2500		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
tert-Butyl alcohol (TBA)	ND		50000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000
p-Isopropyltoluene	ND		1000		ug/Kg		05/04/18 07:35	05/05/18 16:06	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*117*		*60 - 140*	*05/04/18 07:35*	*05/05/18 16:06*	*1000*
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*	*05/04/18 07:35*	*05/05/18 16:06*	*1000*
Dibromofluoromethane (Surr)	*105*		*55 - 140*	*05/04/18 07:35*	*05/05/18 16:06*	*1000*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**29000**		8700		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
2-Methylnaphthalene	**48000**		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
2-Methylphenol	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
3-Methylphenol + 4-Methylphenol	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
4-Chloro-3-methylphenol	ND		9900		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Acenaphthene	**29000**		8700		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Acenaphthylene	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Anthracene	**10000**		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Benzo[a]anthracene	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Benzo[a]pyrene	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Benzo[b]fluoranthene	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Benzo[g,h,i]perylene	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Benzo[k]fluoranthene	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Carbazole	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25

Client Sample ID: DP-14-6'

Date Collected: 04/27/18 14:05
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-14
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Dibenz(a,h)anthracene	ND		10000		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Dibenzofuran	**20000**		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Fluoranthene	**28000**		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Fluorene	**25000**		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Indeno[1,2,3-cd]pyrene	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Naphthalene	**44000**		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Pentachlorophenol	ND		21000		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Phenanthrene	**64000**		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Phenol	ND		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Pyrene	**18000**		8200		ug/Kg		05/02/18 21:27	05/03/18 23:38	25
Pyridine	ND		8400		ug/Kg		05/02/18 21:27	05/03/18 23:38	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 147*	*05/02/18 21:27*	*05/03/18 23:38*	*25*
2-Fluorophenol (Surr)	*47*		*18 - 138*	*05/02/18 21:27*	*05/03/18 23:38*	*25*
Phenol-d6 (Surr)	*47*		*37 - 125*	*05/02/18 21:27*	*05/03/18 23:38*	*25*
Nitrobenzene-d5 (Surr)	*58*		*39 - 104*	*05/02/18 21:27*	*05/03/18 23:38*	*25*
2-Fluorobiphenyl	*71*		*42 - 113*	*05/02/18 21:27*	*05/03/18 23:38*	*25*
Terphenyl-d14 (Surr)	*69*		*43 - 125*	*05/02/18 21:27*	*05/03/18 23:38*	*25*

Client Sample ID: DP-15-7'

Date Collected: 04/27/18 14:50
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,1,1-Trichloroethane	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,1,2,2-Tetrachloroethane	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,1,2-Trichloroethane	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,1-Dichloroethane	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,1-Dichloroethene	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,1-Dichloropropene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,2,3-Trichlorobenzene	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,2,3-Trichloropropane	ND		500		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,2,4-Trichlorobenzene	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,2,4-Trimethylbenzene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,2-Dibromo-3-Chloropropane	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,2-Dibromoethane (EDB)	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,2-Dichlorobenzene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,2-Dichloroethane	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,2-Dichloropropane	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,3,5-Trimethylbenzene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,3-Dichlorobenzene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,3-Dichloropropane	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
1,4-Dichlorobenzene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
2,2-Dichloropropane	ND		200		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
2-Chlorotoluene	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
4-Chlorotoluene	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-15-7'
Date Collected: 04/27/18 14:50
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-15
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Bromobenzene	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Bromochloromethane	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Bromodichloromethane	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Bromoform	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Bromomethane	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Carbon tetrachloride	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Chlorobenzene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Chloroethane	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Chloroform	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Chloromethane	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
cis-1,2-Dichloroethene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
cis-1,3-Dichloropropene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Dibromochloromethane	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Dibromomethane	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Dichlorodifluoromethane	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Ethylbenzene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Hexachlorobutadiene	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Isopropylbenzene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
m,p-Xylene	ND		200		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Methylene Chloride	ND		990		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Methyl-t-Butyl Ether (MTBE)	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
n-Butylbenzene	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
N-Propylbenzene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
o-Xylene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
sec-Butylbenzene	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Styrene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Tert-amyl-methyl ether (TAME)	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
tert-Butylbenzene	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Tetrachloroethene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Toluene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
trans-1,2-Dichloroethene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
trans-1,3-Dichloropropene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Trichloroethene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Trichlorofluoromethane	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Vinyl chloride	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Xylenes, Total	ND		200		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Isopropyl Ether (DIPE)	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
Ethyl-t-butyl ether (ETBE)	ND		250		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
tert-Butyl alcohol (TBA)	ND		5000		ug/Kg		05/04/18 07:35	05/05/18 16:39	100
p-Isopropyltoluene	ND		99		ug/Kg		05/04/18 07:35	05/05/18 16:39	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*60 - 140*	*05/04/18 07:35*	*05/05/18 16:39*	*100*
4-Bromofluorobenzene (Surr)	*114*		*65 - 140*	*05/04/18 07:35*	*05/05/18 16:39*	*100*
Dibromofluoromethane (Surr)	*100*		*55 - 140*	*05/04/18 07:35*	*05/05/18 16:39*	*100*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**13000**		5000		ug/Kg		05/04/18 07:35	05/07/18 10:59	2000

Client Sample ID: DP-15-7'

Date Collected: 04/27/18 14:50
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-15

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*109*		*60 - 140*	*05/04/18 07:35*	*05/07/18 10:59*	*2000*
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*	*05/04/18 07:35*	*05/07/18 10:59*	*2000*
Dibromofluoromethane (Surr)	*106*		*55 - 140*	*05/04/18 07:35*	*05/07/18 10:59*	*2000*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
2-Methylnaphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
2-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
4-Chloro-3-methylphenol	ND		400		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Acenaphthene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Acenaphthylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Benzo[a]anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Benzo[a]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Benzo[b]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Benzo[k]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Carbazole	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Chrysene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Dibenz(a,h)anthracene	ND		420		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Dibenzofuran	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Fluorene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Naphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Pentachlorophenol	ND		830		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Phenanthrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Phenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:20	1
Pyridine	ND		340		ug/Kg		05/02/18 21:27	05/04/18 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*61*		*10 - 147*	*05/02/18 21:27*	*05/04/18 04:20*	*1*
2-Fluorophenol (Surr)	*58*		*18 - 138*	*05/02/18 21:27*	*05/04/18 04:20*	*1*
Phenol-d6 (Surr)	*56*		*37 - 125*	*05/02/18 21:27*	*05/04/18 04:20*	*1*
Nitrobenzene-d5 (Surr)	*62*		*39 - 104*	*05/02/18 21:27*	*05/04/18 04:20*	*1*
2-Fluorobiphenyl	*63*		*42 - 113*	*05/02/18 21:27*	*05/04/18 04:20*	*1*
Terphenyl-d14 (Surr)	*62*		*43 - 125*	*05/02/18 21:27*	*05/04/18 04:20*	*1*

Client Sample ID: DP-16-8'

Date Collected: 04/27/18 15:34
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-16

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		24		ug/Kg			05/04/18 13:19	1
1,1,1-Trichloroethane	ND		9.7		ug/Kg			05/04/18 13:19	1
1,1,2,2-Tetrachloroethane	ND		9.7		ug/Kg			05/04/18 13:19	1
1,1,2-Trichloroethane	ND		9.7		ug/Kg			05/04/18 13:19	1

Client Sample ID: DP-16-8'
Date Collected: 04/27/18 15:34
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-16
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		9.7		ug/Kg			05/04/18 13:19	1
1,1-Dichloroethene	ND		24		ug/Kg			05/04/18 13:19	1
1,1-Dichloropropene	ND		9.7		ug/Kg			05/04/18 13:19	1
1,2,3-Trichlorobenzene	ND		24		ug/Kg			05/04/18 13:19	1
1,2,3-Trichloropropane	ND		49		ug/Kg			05/04/18 13:19	1
1,2,4-Trichlorobenzene	ND		24		ug/Kg			05/04/18 13:19	1
1,2,4-Trimethylbenzene	ND		9.7		ug/Kg			05/04/18 13:19	1
1,2-Dibromo-3-Chloropropane	ND		24		ug/Kg			05/04/18 13:19	1
1,2-Dibromoethane (EDB)	ND		9.7		ug/Kg			05/04/18 13:19	1
1,2-Dichlorobenzene	ND		9.7		ug/Kg			05/04/18 13:19	1
1,2-Dichloroethane	ND		9.7		ug/Kg			05/04/18 13:19	1
1,2-Dichloropropane	ND		9.7		ug/Kg			05/04/18 13:19	1
1,3,5-Trimethylbenzene	ND		9.7		ug/Kg			05/04/18 13:19	1
1,3-Dichlorobenzene	ND		9.7		ug/Kg			05/04/18 13:19	1
1,3-Dichloropropane	ND		9.7		ug/Kg			05/04/18 13:19	1
1,4-Dichlorobenzene	ND		9.7		ug/Kg			05/04/18 13:19	1
2,2-Dichloropropane	ND		9.7		ug/Kg			05/04/18 13:19	1
2-Chlorotoluene	ND		24		ug/Kg			05/04/18 13:19	1
4-Chlorotoluene	ND		24		ug/Kg			05/04/18 13:19	1
Benzene	ND		9.7		ug/Kg			05/04/18 13:19	1
Bromobenzene	ND		24		ug/Kg			05/04/18 13:19	1
Bromochloromethane	ND		24		ug/Kg			05/04/18 13:19	1
Bromodichloromethane	ND		9.7		ug/Kg			05/04/18 13:19	1
Bromoform	ND		24		ug/Kg			05/04/18 13:19	1
Bromomethane	ND		24		ug/Kg			05/04/18 13:19	1
Carbon tetrachloride	ND		24		ug/Kg			05/04/18 13:19	1
Chlorobenzene	ND		9.7		ug/Kg			05/04/18 13:19	1
Chloroethane	ND		24		ug/Kg			05/04/18 13:19	1
Chloroform	ND		9.7		ug/Kg			05/04/18 13:19	1
Chloromethane	ND		24		ug/Kg			05/04/18 13:19	1
cis-1,2-Dichloroethene	ND		9.7		ug/Kg			05/04/18 13:19	1
cis-1,3-Dichloropropene	ND		9.7		ug/Kg			05/04/18 13:19	1
Dibromochloromethane	ND		9.7		ug/Kg			05/04/18 13:19	1
Dibromomethane	ND		9.7		ug/Kg			05/04/18 13:19	1
Dichlorodifluoromethane	ND		24		ug/Kg			05/04/18 13:19	1
Ethylbenzene	ND		9.7		ug/Kg			05/04/18 13:19	1
Hexachlorobutadiene	ND		24		ug/Kg			05/04/18 13:19	1
Isopropylbenzene	ND		9.7		ug/Kg			05/04/18 13:19	1
m,p-Xylene	ND		19		ug/Kg			05/04/18 13:19	1
Methylene Chloride	ND		97		ug/Kg			05/04/18 13:19	1
Methyl-t-Butyl Ether (MTBE)	ND		24		ug/Kg			05/04/18 13:19	1
Naphthalene	**380**		24		ug/Kg			05/04/18 13:19	1
n-Butylbenzene	ND		24		ug/Kg			05/04/18 13:19	1
N-Propylbenzene	ND		9.7		ug/Kg			05/04/18 13:19	1
o-Xylene	ND		9.7		ug/Kg			05/04/18 13:19	1
sec-Butylbenzene	ND		24		ug/Kg			05/04/18 13:19	1
Styrene	ND		9.7		ug/Kg			05/04/18 13:19	1
Tert-amyl-methyl ether (TAME)	ND		24		ug/Kg			05/04/18 13:19	1
tert-Butylbenzene	ND		24		ug/Kg			05/04/18 13:19	1

Client Sample ID: DP-16-8'
Date Collected: 04/27/18 15:34
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-16
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		9.7		ug/Kg			05/04/18 13:19	1
Toluene	ND		9.7		ug/Kg			05/04/18 13:19	1
trans-1,2-Dichloroethene	ND		9.7		ug/Kg			05/04/18 13:19	1
trans-1,3-Dichloropropene	ND		9.7		ug/Kg			05/04/18 13:19	1
Trichloroethene	ND		9.7		ug/Kg			05/04/18 13:19	1
Trichlorofluoromethane	ND		24		ug/Kg			05/04/18 13:19	1
Vinyl chloride	ND		24		ug/Kg			05/04/18 13:19	1
Xylenes, Total	ND		19		ug/Kg			05/04/18 13:19	1
Isopropyl Ether (DIPE)	ND		24		ug/Kg			05/04/18 13:19	1
Ethyl-t-butyl ether (ETBE)	ND		24		ug/Kg			05/04/18 13:19	1
tert-Butyl alcohol (TBA)	ND		490		ug/Kg			05/04/18 13:19	1
p-Isopropyltoluene	ND		9.7		ug/Kg			05/04/18 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*79 - 123*		*05/04/18 13:19*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*05/04/18 13:19*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*05/04/18 13:19*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
2-Methylnaphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
2-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
4-Chloro-3-methylphenol	ND		400		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Acenaphthene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Acenaphthylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Benzo[a]anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Benzo[a]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Benzo[b]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Benzo[k]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Carbazole	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Chrysene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Dibenz(a,h)anthracene	ND		420		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Dibenzofuran	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Fluorene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Naphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Pentachlorophenol	ND		830		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Phenanthrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Phenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 04:44	1
Pyridine	ND		340		ug/Kg		05/02/18 21:27	05/04/18 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 147*	*05/02/18 21:27*	*05/04/18 04:44*	*1*
2-Fluorophenol (Surr)	*70*		*18 - 138*	*05/02/18 21:27*	*05/04/18 04:44*	*1*

Client Sample ID: DP-16-8'

Lab Sample ID: 440-210294-16

Date Collected: 04/27/18 15:34

Matrix: Solid

Date Received: 05/02/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d6 (Surr)	*69*		*37 - 125*	*05/02/18 21:27*	*05/04/18 04:44*	*1*
Nitrobenzene-d5 (Surr)	*70*		*39 - 104*	*05/02/18 21:27*	*05/04/18 04:44*	*1*
2-Fluorobiphenyl	*75*		*42 - 113*	*05/02/18 21:27*	*05/04/18 04:44*	*1*
Terphenyl-d14 (Surr)	*75*		*43 - 125*	*05/02/18 21:27*	*05/04/18 04:44*	*1*

Client Sample ID: DP-17-8'

Lab Sample ID: 440-210294-17

Date Collected: 04/27/18 16:36

Matrix: Solid

Date Received: 05/02/18 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/04/18 09:16	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/04/18 09:16	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/04/18 09:16	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/04/18 09:16	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/04/18 09:16	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/04/18 09:16	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/04/18 09:16	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/04/18 09:16	1
1,2,3-Trichloropropane	ND		10		ug/Kg			05/04/18 09:16	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/04/18 09:16	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/04/18 09:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			05/04/18 09:16	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/04/18 09:16	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 09:16	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/04/18 09:16	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/04/18 09:16	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/04/18 09:16	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 09:16	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/04/18 09:16	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 09:16	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/04/18 09:16	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/04/18 09:16	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/04/18 09:16	1
Benzene	ND		2.0		ug/Kg			05/04/18 09:16	1
Bromobenzene	ND		5.0		ug/Kg			05/04/18 09:16	1
Bromochloromethane	ND		5.0		ug/Kg			05/04/18 09:16	1
Bromodichloromethane	ND		2.0		ug/Kg			05/04/18 09:16	1
Bromoform	ND		5.0		ug/Kg			05/04/18 09:16	1
Bromomethane	ND		5.0		ug/Kg			05/04/18 09:16	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/04/18 09:16	1
Chlorobenzene	ND		2.0		ug/Kg			05/04/18 09:16	1
Chloroethane	ND		5.0		ug/Kg			05/04/18 09:16	1
Chloroform	ND		2.0		ug/Kg			05/04/18 09:16	1
Chloromethane	ND		5.0		ug/Kg			05/04/18 09:16	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/04/18 09:16	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/04/18 09:16	1
Dibromochloromethane	ND		2.0		ug/Kg			05/04/18 09:16	1
Dibromomethane	ND		2.0		ug/Kg			05/04/18 09:16	1

Client Sample ID: DP-17-8'
Date Collected: 04/27/18 16:36
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-17
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		5.0		ug/Kg			05/04/18 09:16	1
Ethylbenzene	ND		2.0		ug/Kg			05/04/18 09:16	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/04/18 09:16	1
Isopropylbenzene	ND		2.0		ug/Kg			05/04/18 09:16	1
m,p-Xylene	ND		4.0		ug/Kg			05/04/18 09:16	1
Methylene Chloride	ND		20		ug/Kg			05/04/18 09:16	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			05/04/18 09:16	1
Naphthalene	ND		5.0		ug/Kg			05/04/18 09:16	1
n-Butylbenzene	ND		5.0		ug/Kg			05/04/18 09:16	1
N-Propylbenzene	ND		2.0		ug/Kg			05/04/18 09:16	1
o-Xylene	ND		2.0		ug/Kg			05/04/18 09:16	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/04/18 09:16	1
Styrene	ND		2.0		ug/Kg			05/04/18 09:16	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/Kg			05/04/18 09:16	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/04/18 09:16	1
Tetrachloroethene	ND		2.0		ug/Kg			05/04/18 09:16	1
Toluene	ND		2.0		ug/Kg			05/04/18 09:16	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/04/18 09:16	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/04/18 09:16	1
Trichloroethene	ND		2.0		ug/Kg			05/04/18 09:16	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/04/18 09:16	1
Vinyl chloride	ND		5.0		ug/Kg			05/04/18 09:16	1
Xylenes, Total	ND		4.0		ug/Kg			05/04/18 09:16	1
Isopropyl Ether (DIPE)	ND		5.0		ug/Kg			05/04/18 09:16	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			05/04/18 09:16	1
tert-Butyl alcohol (TBA)	ND		100		ug/Kg			05/04/18 09:16	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/04/18 09:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*79 - 123*		*05/04/18 09:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*05/04/18 09:16*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 120*		*05/04/18 09:16*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
2-Methylnaphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
2-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
4-Chloro-3-methylphenol	ND		400		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Acenaphthene	ND		350		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Acenaphthylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Benzo[a]anthracene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Benzo[a]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Benzo[b]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Benzo[k]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Carbazole	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Chrysene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1

Client Sample ID: DP-17-8'

Lab Sample ID: 440-210294-17

Date Collected: 04/27/18 16:36

Matrix: Solid

Date Received: 05/02/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		420		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Dibenzofuran	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Fluorene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Naphthalene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Pentachlorophenol	ND		830		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Phenanthrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Phenol	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Pyrene	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:08	1
Pyridine	ND		340		ug/Kg		05/02/18 21:27	05/04/18 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*86*		*10 - 147*	*05/02/18 21:27*	*05/04/18 05:08*	*1*
2-Fluorophenol (Surr)	*76*		*18 - 138*	*05/02/18 21:27*	*05/04/18 05:08*	*1*
Phenol-d6 (Surr)	*73*		*37 - 125*	*05/02/18 21:27*	*05/04/18 05:08*	*1*
Nitrobenzene-d5 (Surr)	*80*		*39 - 104*	*05/02/18 21:27*	*05/04/18 05:08*	*1*
2-Fluorobiphenyl	*83*		*42 - 113*	*05/02/18 21:27*	*05/04/18 05:08*	*1*
Terphenyl-d14 (Surr)	*82*		*43 - 125*	*05/02/18 21:27*	*05/04/18 05:08*	*1*

Client Sample ID: DP-18-4'

Lab Sample ID: 440-210294-18

Date Collected: 04/28/18 09:47

Matrix: Solid

Date Received: 05/02/18 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg			05/03/18 11:41	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/03/18 11:41	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/03/18 11:41	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/03/18 11:41	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/03/18 11:41	1
1,1-Dichloroethene	ND		4.9		ug/Kg			05/03/18 11:41	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/03/18 11:41	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg			05/03/18 11:41	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			05/03/18 11:41	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg			05/03/18 11:41	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 11:41	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg			05/03/18 11:41	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/03/18 11:41	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 11:41	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/03/18 11:41	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 11:41	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 11:41	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 11:41	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/03/18 11:41	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 11:41	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 11:41	1
2-Chlorotoluene	ND		4.9		ug/Kg			05/03/18 11:41	1
4-Chlorotoluene	ND		4.9		ug/Kg			05/03/18 11:41	1
Benzene	ND		2.0		ug/Kg			05/03/18 11:41	1

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-18-4'
Date Collected: 04/28/18 09:47
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-18
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		4.9		ug/Kg			05/03/18 11:41	1
Bromochloromethane	ND		4.9		ug/Kg			05/03/18 11:41	1
Bromodichloromethane	ND		2.0		ug/Kg			05/03/18 11:41	1
Bromoform	ND		4.9		ug/Kg			05/03/18 11:41	1
Bromomethane	ND		4.9		ug/Kg			05/03/18 11:41	1
Carbon tetrachloride	ND		4.9		ug/Kg			05/03/18 11:41	1
Chlorobenzene	ND		2.0		ug/Kg			05/03/18 11:41	1
Chloroethane	ND		4.9		ug/Kg			05/03/18 11:41	1
Chloroform	ND		2.0		ug/Kg			05/03/18 11:41	1
Chloromethane	ND		4.9		ug/Kg			05/03/18 11:41	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 11:41	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 11:41	1
Dibromochloromethane	ND		2.0		ug/Kg			05/03/18 11:41	1
Dibromomethane	ND		2.0		ug/Kg			05/03/18 11:41	1
Dichlorodifluoromethane	ND		4.9		ug/Kg			05/03/18 11:41	1
Ethylbenzene	ND		2.0		ug/Kg			05/03/18 11:41	1
Hexachlorobutadiene	ND		4.9		ug/Kg			05/03/18 11:41	1
Isopropylbenzene	ND		2.0		ug/Kg			05/03/18 11:41	1
m,p-Xylene	ND		4.0		ug/Kg			05/03/18 11:41	1
Methylene Chloride	ND		20		ug/Kg			05/03/18 11:41	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9		ug/Kg			05/03/18 11:41	1
Naphthalene	ND		4.9		ug/Kg			05/03/18 11:41	1
n-Butylbenzene	ND		4.9		ug/Kg			05/03/18 11:41	1
N-Propylbenzene	ND		2.0		ug/Kg			05/03/18 11:41	1
o-Xylene	ND		2.0		ug/Kg			05/03/18 11:41	1
sec-Butylbenzene	ND		4.9		ug/Kg			05/03/18 11:41	1
Styrene	ND		2.0		ug/Kg			05/03/18 11:41	1
Tert-amyl-methyl ether (TAME)	ND		4.9		ug/Kg			05/03/18 11:41	1
tert-Butylbenzene	ND		4.9		ug/Kg			05/03/18 11:41	1
Tetrachloroethene	ND		2.0		ug/Kg			05/03/18 11:41	1
Toluene	ND		2.0		ug/Kg			05/03/18 11:41	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 11:41	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 11:41	1
Trichloroethene	ND		2.0		ug/Kg			05/03/18 11:41	1
Trichlorofluoromethane	ND		4.9		ug/Kg			05/03/18 11:41	1
Vinyl chloride	ND		4.9		ug/Kg			05/03/18 11:41	1
Xylenes, Total	ND		4.0		ug/Kg			05/03/18 11:41	1
Isopropyl Ether (DIPE)	ND		4.9		ug/Kg			05/03/18 11:41	1
Ethyl-t-butyl ether (ETBE)	ND		4.9		ug/Kg			05/03/18 11:41	1
tert-Butyl alcohol (TBA)	ND		99		ug/Kg			05/03/18 11:41	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/03/18 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*79 - 123*		*05/03/18 11:41*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*05/03/18 11:41*	*1*
Dibromofluoromethane (Surr)	*103*		*60 - 120*		*05/03/18 11:41*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**1800**		350		ug/Kg		05/02/18 21:27	05/03/18 21:23	1

Client Sample ID: DP-18-4'

Date Collected: 04/28/18 09:47
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-18
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**3300**		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
2-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
4-Chloro-3-methylphenol	ND		400		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Acenaphthene	**2600**		350		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Acenaphthylene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Anthracene	**720**		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Benzo[a]anthracene	**450**		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Benzo[a]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Benzo[b]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Benzo[k]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Carbazole	ND		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Chrysene	**440**		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Dibenz(a,h)anthracene	ND		420		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Dibenzofuran	**1700**		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Fluoranthene	**2700**		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Fluorene	**2200**		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Naphthalene	**5100**		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Pentachlorophenol	**820**		820		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Phenanthrene	**5400**		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Phenol	ND		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Pyrene	**2000**		330		ug/Kg		05/02/18 21:27	05/03/18 21:23	1
Pyridine	ND		340		ug/Kg		05/02/18 21:27	05/03/18 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*10 - 147*	*05/02/18 21:27*	*05/03/18 21:23*	*1*
2-Fluorophenol (Surr)	*60*		*18 - 138*	*05/02/18 21:27*	*05/03/18 21:23*	*1*
Phenol-d6 (Surr)	*59*		*37 - 125*	*05/02/18 21:27*	*05/03/18 21:23*	*1*
Nitrobenzene-d5 (Surr)	*49*		*39 - 104*	*05/02/18 21:27*	*05/03/18 21:23*	*1*
2-Fluorobiphenyl	*65*		*42 - 113*	*05/02/18 21:27*	*05/03/18 21:23*	*1*
Terphenyl-d14 (Surr)	*60*		*43 - 125*	*05/02/18 21:27*	*05/03/18 21:23*	*1*

Client Sample ID: DP-19-5'

Date Collected: 04/28/18 10:21
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-19
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/03/18 09:49	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/03/18 09:49	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/03/18 09:49	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/03/18 09:49	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/03/18 09:49	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/03/18 09:49	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/03/18 09:49	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 09:49	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			05/03/18 09:49	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 09:49	1

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-19-5'
Date Collected: 04/28/18 10:21
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-19
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 09:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			05/03/18 09:49	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/03/18 09:49	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 09:49	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/03/18 09:49	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 09:49	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 09:49	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 09:49	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/03/18 09:49	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 09:49	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 09:49	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 09:49	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 09:49	1
Benzene	ND		2.0		ug/Kg			05/03/18 09:49	1
Bromobenzene	ND		5.0		ug/Kg			05/03/18 09:49	1
Bromochloromethane	ND		5.0		ug/Kg			05/03/18 09:49	1
Bromodichloromethane	ND		2.0		ug/Kg			05/03/18 09:49	1
Bromoform	ND		5.0		ug/Kg			05/03/18 09:49	1
Bromomethane	ND		5.0		ug/Kg			05/03/18 09:49	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/03/18 09:49	1
Chlorobenzene	ND		2.0		ug/Kg			05/03/18 09:49	1
Chloroethane	ND		5.0		ug/Kg			05/03/18 09:49	1
Chloroform	ND		2.0		ug/Kg			05/03/18 09:49	1
Chloromethane	ND		5.0		ug/Kg			05/03/18 09:49	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 09:49	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 09:49	1
Dibromochloromethane	ND		2.0		ug/Kg			05/03/18 09:49	1
Dibromomethane	ND		2.0		ug/Kg			05/03/18 09:49	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			05/03/18 09:49	1
Ethylbenzene	ND		2.0		ug/Kg			05/03/18 09:49	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/03/18 09:49	1
Isopropylbenzene	ND		2.0		ug/Kg			05/03/18 09:49	1
m,p-Xylene	ND		4.0		ug/Kg			05/03/18 09:49	1
Methylene Chloride	ND		20		ug/Kg			05/03/18 09:49	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			05/03/18 09:49	1
Naphthalene	ND		5.0		ug/Kg			05/03/18 09:49	1
n-Butylbenzene	ND		5.0		ug/Kg			05/03/18 09:49	1
N-Propylbenzene	ND		2.0		ug/Kg			05/03/18 09:49	1
o-Xylene	ND		2.0		ug/Kg			05/03/18 09:49	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/03/18 09:49	1
Styrene	ND		2.0		ug/Kg			05/03/18 09:49	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/Kg			05/03/18 09:49	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/03/18 09:49	1
Tetrachloroethene	ND		2.0		ug/Kg			05/03/18 09:49	1
Toluene	ND		2.0		ug/Kg			05/03/18 09:49	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 09:49	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 09:49	1
Trichloroethene	ND		2.0		ug/Kg			05/03/18 09:49	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/03/18 09:49	1

Client Sample ID: DP-19-5'

Date Collected: 04/28/18 10:21
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-19

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		5.0		ug/Kg			05/03/18 09:49	1
Xylenes, Total	ND		4.0		ug/Kg			05/03/18 09:49	1
Isopropyl Ether (DIPE)	ND		5.0		ug/Kg			05/03/18 09:49	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			05/03/18 09:49	1
tert-Butyl alcohol (TBA)	ND		99		ug/Kg			05/03/18 09:49	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/03/18 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*79 - 123*		*05/03/18 09:49*	*1*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*		*05/03/18 09:49*	*1*
Dibromofluoromethane (Surr)	*91*		*60 - 120*		*05/03/18 09:49*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**390**		340		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
2-Methylnaphthalene	**690**		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
2-Methylphenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
3-Methylphenol + 4-Methylphenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
4-Chloro-3-methylphenol	ND		390		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Acenaphthene	**520**		340		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Acenaphthylene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Anthracene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Benzo[a]anthracene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Benzo[a]pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Benzo[b]fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Benzo[g,h,i]perylene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Benzo[k]fluoranthene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Carbazole	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Chrysene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Dibenz(a,h)anthracene	ND		410		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Dibenzofuran	**390**		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Fluoranthene	**540**		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Fluorene	**470**		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Indeno[1,2,3-cd]pyrene	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Naphthalene	**1100**		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Pentachlorophenol	ND		810		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Phenanthrene	**1300**		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Phenol	ND		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Pyrene	**420**		320		ug/Kg		05/02/18 21:27	05/04/18 05:32	1
Pyridine	ND		330		ug/Kg		05/02/18 21:27	05/04/18 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 147*	*05/02/18 21:27*	*05/04/18 05:32*	*1*
2-Fluorophenol (Surr)	*62*		*18 - 138*	*05/02/18 21:27*	*05/04/18 05:32*	*1*
Phenol-d6 (Surr)	*59*		*37 - 125*	*05/02/18 21:27*	*05/04/18 05:32*	*1*
Nitrobenzene-d5 (Surr)	*59*		*39 - 104*	*05/02/18 21:27*	*05/04/18 05:32*	*1*
2-Fluorobiphenyl	*64*		*42 - 113*	*05/02/18 21:27*	*05/04/18 05:32*	*1*
Terphenyl-d14 (Surr)	*61*		*43 - 125*	*05/02/18 21:27*	*05/04/18 05:32*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-20-4'
Date Collected: 04/28/18 11:09
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-20
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg			05/03/18 09:53	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/03/18 09:53	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/03/18 09:53	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/03/18 09:53	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/03/18 09:53	1
1,1-Dichloroethene	ND		4.9		ug/Kg			05/03/18 09:53	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/03/18 09:53	1
1,2,3-Trichlorobenzene	ND		4.9		ug/Kg			05/03/18 09:53	1
1,2,3-Trichloropropane	ND		9.9		ug/Kg			05/03/18 09:53	1
1,2,4-Trichlorobenzene	ND		4.9		ug/Kg			05/03/18 09:53	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 09:53	1
1,2-Dibromo-3-Chloropropane	ND		4.9		ug/Kg			05/03/18 09:53	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/03/18 09:53	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 09:53	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/03/18 09:53	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 09:53	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 09:53	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 09:53	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/03/18 09:53	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 09:53	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 09:53	1
2-Chlorotoluene	ND		4.9		ug/Kg			05/03/18 09:53	1
4-Chlorotoluene	ND		4.9		ug/Kg			05/03/18 09:53	1
Benzene	ND		2.0		ug/Kg			05/03/18 09:53	1
Bromobenzene	ND		4.9		ug/Kg			05/03/18 09:53	1
Bromochloromethane	ND		4.9		ug/Kg			05/03/18 09:53	1
Bromodichloromethane	ND		2.0		ug/Kg			05/03/18 09:53	1
Bromoform	ND		4.9		ug/Kg			05/03/18 09:53	1
Bromomethane	ND		4.9		ug/Kg			05/03/18 09:53	1
Carbon tetrachloride	ND		4.9		ug/Kg			05/03/18 09:53	1
Chlorobenzene	ND		2.0		ug/Kg			05/03/18 09:53	1
Chloroethane	ND		4.9		ug/Kg			05/03/18 09:53	1
Chloroform	ND		2.0		ug/Kg			05/03/18 09:53	1
Chloromethane	ND		4.9		ug/Kg			05/03/18 09:53	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 09:53	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 09:53	1
Dibromochloromethane	ND		2.0		ug/Kg			05/03/18 09:53	1
Dibromomethane	ND		2.0		ug/Kg			05/03/18 09:53	1
Dichlorodifluoromethane	ND		4.9		ug/Kg			05/03/18 09:53	1
Ethylbenzene	ND		2.0		ug/Kg			05/03/18 09:53	1
Hexachlorobutadiene	ND		4.9		ug/Kg			05/03/18 09:53	1
Isopropylbenzene	ND		2.0		ug/Kg			05/03/18 09:53	1
m,p-Xylene	ND		3.9		ug/Kg			05/03/18 09:53	1
Methylene Chloride	ND		20		ug/Kg			05/03/18 09:53	1
Methyl-t-Butyl Ether (MTBE)	ND		4.9		ug/Kg			05/03/18 09:53	1
Naphthalene	ND		4.9		ug/Kg			05/03/18 09:53	1
n-Butylbenzene	ND		4.9		ug/Kg			05/03/18 09:53	1
N-Propylbenzene	ND		2.0		ug/Kg			05/03/18 09:53	1
o-Xylene	ND		2.0		ug/Kg			05/03/18 09:53	1

Client Sample ID: DP-20-4'
Date Collected: 04/28/18 11:09
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-20
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		4.9		ug/Kg			05/03/18 09:53	1
Styrene	ND		2.0		ug/Kg			05/03/18 09:53	1
Tert-amyl-methyl ether (TAME)	ND		4.9		ug/Kg			05/03/18 09:53	1
tert-Butylbenzene	ND		4.9		ug/Kg			05/03/18 09:53	1
Tetrachloroethene	ND		2.0		ug/Kg			05/03/18 09:53	1
Toluene	ND		2.0		ug/Kg			05/03/18 09:53	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 09:53	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 09:53	1
Trichloroethene	ND		2.0		ug/Kg			05/03/18 09:53	1
Trichlorofluoromethane	ND		4.9		ug/Kg			05/03/18 09:53	1
Vinyl chloride	ND		4.9		ug/Kg			05/03/18 09:53	1
Xylenes, Total	ND		3.9		ug/Kg			05/03/18 09:53	1
Isopropyl Ether (DIPE)	ND		4.9		ug/Kg			05/03/18 09:53	1
Ethyl-t-butyl ether (ETBE)	ND		4.9		ug/Kg			05/03/18 09:53	1
tert-Butyl alcohol (TBA)	ND		99		ug/Kg			05/03/18 09:53	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/03/18 09:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*79 - 123*		*05/03/18 09:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*		*05/03/18 09:53*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*05/03/18 09:53*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		350		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
2-Methylnaphthalene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
2-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
4-Chloro-3-methylphenol	ND		390		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Acenaphthene	ND		350		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Acenaphthylene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Anthracene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Benzo[a]anthracene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Benzo[a]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Benzo[b]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Benzo[k]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Carbazole	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Chrysene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Dibenz(a,h)anthracene	ND		410		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Dibenzofuran	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Fluorene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Naphthalene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Pentachlorophenol	ND		820		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Phenanthrene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Phenol	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Pyrene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 20:15	1
Pyridine	ND		340		ug/Kg		05/02/18 21:27	05/03/18 20:15	1

Client Sample ID: DP-20-4'

Date Collected: 04/28/18 11:09
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-20
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		10 - 147	05/02/18 21:27	05/03/18 20:15	1
2-Fluorophenol (Surr)	83		18 - 138	05/02/18 21:27	05/03/18 20:15	1
Phenol-d6 (Surr)	84		37 - 125	05/02/18 21:27	05/03/18 20:15	1
Nitrobenzene-d5 (Surr)	86		39 - 104	05/02/18 21:27	05/03/18 20:15	1
2-Fluorobiphenyl	86		42 - 113	05/02/18 21:27	05/03/18 20:15	1
Terphenyl-d14 (Surr)	84		43 - 125	05/02/18 21:27	05/03/18 20:15	1

Client Sample ID: PZ-1

Date Collected: 04/28/18 12:25
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/03/18 21:51	1
1,1,1-Trichloroethane	ND		2.0		ug/L			05/03/18 21:51	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/03/18 21:51	1
1,1,2-Trichloroethane	ND		2.0		ug/L			05/03/18 21:51	1
1,1-Dichloroethane	ND		2.0		ug/L			05/03/18 21:51	1
1,1-Dichloroethene	ND		5.0		ug/L			05/03/18 21:51	1
1,1-Dichloropropene	ND		2.0		ug/L			05/03/18 21:51	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/03/18 21:51	1
1,2,3-Trichloropropane	ND		10		ug/L			05/03/18 21:51	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/03/18 21:51	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			05/03/18 21:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/18 21:51	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			05/03/18 21:51	1
1,2-Dichlorobenzene	ND		2.0		ug/L			05/03/18 21:51	1
1,2-Dichloroethane	ND		2.0		ug/L			05/03/18 21:51	1
1,2-Dichloropropane	ND		2.0		ug/L			05/03/18 21:51	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/03/18 21:51	1
1,3-Dichlorobenzene	ND		2.0		ug/L			05/03/18 21:51	1
1,3-Dichloropropane	ND		2.0		ug/L			05/03/18 21:51	1
1,4-Dichlorobenzene	ND		2.0		ug/L			05/03/18 21:51	1
2,2-Dichloropropane	ND		2.0		ug/L			05/03/18 21:51	1
2-Chlorotoluene	ND		5.0		ug/L			05/03/18 21:51	1
4-Chlorotoluene	ND		5.0		ug/L			05/03/18 21:51	1
Benzene	ND		2.0		ug/L			05/03/18 21:51	1
Bromobenzene	ND		5.0		ug/L			05/03/18 21:51	1
Bromochloromethane	ND		5.0		ug/L			05/03/18 21:51	1
Bromodichloromethane	ND		2.0		ug/L			05/03/18 21:51	1
Bromoform	ND		5.0		ug/L			05/03/18 21:51	1
Bromomethane	ND		5.0		ug/L			05/03/18 21:51	1
Carbon tetrachloride	ND		5.0		ug/L			05/03/18 21:51	1
Chlorobenzene	ND		2.0		ug/L			05/03/18 21:51	1
Chloroethane	ND		5.0		ug/L			05/03/18 21:51	1
Chloroform	ND		2.0		ug/L			05/03/18 21:51	1
Chloromethane	ND		5.0		ug/L			05/03/18 21:51	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/03/18 21:51	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/03/18 21:51	1
Dibromochloromethane	ND		2.0		ug/L			05/03/18 21:51	1

Client Sample ID: PZ-1
Date Collected: 04/28/18 12:25
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		2.0		ug/L			05/03/18 21:51	1
Dichlorodifluoromethane	ND		5.0		ug/L			05/03/18 21:51	1
Ethylbenzene	ND		2.0		ug/L			05/03/18 21:51	1
Hexachlorobutadiene	ND	F2	5.0		ug/L			05/03/18 21:51	1
Isopropylbenzene	ND		2.0		ug/L			05/03/18 21:51	1
m,p-Xylene	ND		2.0		ug/L			05/03/18 21:51	1
Methylene Chloride	ND		5.0		ug/L			05/03/18 21:51	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/03/18 21:51	1
Naphthalene	ND		5.0		ug/L			05/03/18 21:51	1
n-Butylbenzene	ND		5.0		ug/L			05/03/18 21:51	1
N-Propylbenzene	ND		2.0		ug/L			05/03/18 21:51	1
o-Xylene	ND		2.0		ug/L			05/03/18 21:51	1
sec-Butylbenzene	ND		5.0		ug/L			05/03/18 21:51	1
Styrene	ND		2.0		ug/L			05/03/18 21:51	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			05/03/18 21:51	1
tert-Butylbenzene	ND		5.0		ug/L			05/03/18 21:51	1
Tetrachloroethene	ND		2.0		ug/L			05/03/18 21:51	1
Toluene	ND		2.0		ug/L			05/03/18 21:51	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/03/18 21:51	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/03/18 21:51	1
Trichloroethene	ND		2.0		ug/L			05/03/18 21:51	1
Trichlorofluoromethane	ND		5.0		ug/L			05/03/18 21:51	1
Vinyl chloride	ND		5.0		ug/L			05/03/18 21:51	1
Xylenes, Total	ND		2.0		ug/L			05/03/18 21:51	1
Isopropyl Ether (DIPE)	ND		5.0		ug/L			05/03/18 21:51	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			05/03/18 21:51	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			05/03/18 21:51	1
p-Isopropyltoluene	ND		2.0		ug/L			05/03/18 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*05/03/18 21:51*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/03/18 21:51*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*05/03/18 21:51*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
1,3-Dichlorobenzene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
1,4-Dichlorobenzene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
2,4,5-Trichlorophenol	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
2,4,6-Trichlorophenol	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
2,4-Dichlorophenol	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
2,4-Dimethylphenol	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
2,4-Dinitrophenol	ND		850		ug/L		05/03/18 08:44	05/06/18 02:24	10
2,4-Dinitrotoluene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
2,6-Dinitrotoluene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
2-Chloronaphthalene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
2-Chlorophenol	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
2-Methylnaphthalene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
2-Methylphenol	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10

Client Sample ID: PZ-1
Date Collected: 04/28/18 12:25
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-21
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
2-Nitrophenol	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
3,3'-Dichlorobenzidine	ND	*	850		ug/L		05/03/18 08:44	05/06/18 02:24	10
3-Nitroaniline	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
4,6-Dinitro-2-methylphenol	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
4-Bromophenyl phenyl ether	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
4-Chloro-3-methylphenol	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
4-Chloroaniline	ND	*	210		ug/L		05/03/18 08:44	05/06/18 02:24	10
4-Chlorophenyl phenyl ether	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
3-Methylphenol + 4-Methylphenol	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
4-Nitroaniline	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
4-Nitrophenol	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
Acenaphthene	**360**		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Acenaphthylene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Aniline	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Anthracene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Benzidine	ND		850		ug/L		05/03/18 08:44	05/06/18 02:24	10
Benzo[a]anthracene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Benzo[a]pyrene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Benzo[b]fluoranthene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Benzo[g,h,i]perylene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Benzo[k]fluoranthene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Benzoic acid	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
Benzyl alcohol	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
Bis(2-chloroethoxy)methane	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Bis(2-chloroethyl)ether	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Bis(2-ethylhexyl) phthalate	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
Butyl benzyl phthalate	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
Chrysene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Dibenz(a,h)anthracene	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
Dibenzofuran	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Diethyl phthalate	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Dimethyl phthalate	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Di-n-butyl phthalate	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
Di-n-octyl phthalate	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
Fluoranthene	**260**		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Fluorene	**230**		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Hexachlorobenzene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Hexachlorobutadiene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Hexachlorocyclopentadiene	ND	*	430		ug/L		05/03/18 08:44	05/06/18 02:24	10
Hexachloroethane	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Indeno[1,2,3-cd]pyrene	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
Isophorone	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Naphthalene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Nitrobenzene	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10
N-Nitrosodi-n-propylamine	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
N-Nitrosodiphenylamine	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Phenanthrene	**510**		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
Phenol	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10

Client Sample ID: PZ-1

Date Collected: 04/28/18 12:25
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-21
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
bis (2-chloroisopropyl) ether	ND		210		ug/L		05/03/18 08:44	05/06/18 02:24	10
N-Nitrosodimethylamine	ND		430		ug/L		05/03/18 08:44	05/06/18 02:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*50 - 120*	*05/03/18 08:44*	*05/06/18 02:24*	*10*
2-Fluorophenol (Surr)	*54*		*30 - 120*	*05/03/18 08:44*	*05/06/18 02:24*	*10*
2,4,6-Tribromophenol (Surr)	*93*		*40 - 120*	*05/03/18 08:44*	*05/06/18 02:24*	*10*
Nitrobenzene-d5 (Surr)	*74*		*45 - 120*	*05/03/18 08:44*	*05/06/18 02:24*	*10*
Terphenyl-d14 (Surr)	*40*		*10 - 150*	*05/03/18 08:44*	*05/06/18 02:24*	*10*
Phenol-d6 (Surr)	*70*		*35 - 120*	*05/03/18 08:44*	*05/06/18 02:24*	*10*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**120000**		8500		ug/L		05/03/18 08:44	05/07/18 15:41	200

Client Sample ID: PZ-2

Date Collected: 04/28/18 12:36
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-22
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/03/18 23:12	1
1,1,1-Trichloroethane	ND		2.0		ug/L			05/03/18 23:12	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/03/18 23:12	1
1,1,2-Trichloroethane	ND		2.0		ug/L			05/03/18 23:12	1
1,1-Dichloroethane	ND		2.0		ug/L			05/03/18 23:12	1
1,1-Dichloroethene	ND		5.0		ug/L			05/03/18 23:12	1
1,1-Dichloropropene	ND		2.0		ug/L			05/03/18 23:12	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/03/18 23:12	1
1,2,3-Trichloropropane	ND		10		ug/L			05/03/18 23:12	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/03/18 23:12	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			05/03/18 23:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/18 23:12	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			05/03/18 23:12	1
1,2-Dichlorobenzene	ND		2.0		ug/L			05/03/18 23:12	1
1,2-Dichloroethane	ND		2.0		ug/L			05/03/18 23:12	1
1,2-Dichloropropane	ND		2.0		ug/L			05/03/18 23:12	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/03/18 23:12	1
1,3-Dichlorobenzene	ND		2.0		ug/L			05/03/18 23:12	1
1,3-Dichloropropane	ND		2.0		ug/L			05/03/18 23:12	1
1,4-Dichlorobenzene	ND		2.0		ug/L			05/03/18 23:12	1
2,2-Dichloropropane	ND		2.0		ug/L			05/03/18 23:12	1
2-Chlorotoluene	ND		5.0		ug/L			05/03/18 23:12	1
4-Chlorotoluene	ND		5.0		ug/L			05/03/18 23:12	1
Benzene	ND		2.0		ug/L			05/03/18 23:12	1
Bromobenzene	ND		5.0		ug/L			05/03/18 23:12	1
Bromochloromethane	ND		5.0		ug/L			05/03/18 23:12	1
Bromodichloromethane	ND		2.0		ug/L			05/03/18 23:12	1
Bromoform	ND		5.0		ug/L			05/03/18 23:12	1

Client Sample ID: PZ-2
Date Collected: 04/28/18 12:36
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-22
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		5.0		ug/L			05/03/18 23:12	1
Carbon tetrachloride	ND		5.0		ug/L			05/03/18 23:12	1
Chlorobenzene	ND		2.0		ug/L			05/03/18 23:12	1
Chloroethane	ND		5.0		ug/L			05/03/18 23:12	1
Chloroform	ND		2.0		ug/L			05/03/18 23:12	1
Chloromethane	ND		5.0		ug/L			05/03/18 23:12	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/03/18 23:12	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/03/18 23:12	1
Dibromochloromethane	ND		2.0		ug/L			05/03/18 23:12	1
Dibromomethane	ND		2.0		ug/L			05/03/18 23:12	1
Dichlorodifluoromethane	ND		5.0		ug/L			05/03/18 23:12	1
Ethylbenzene	ND		2.0		ug/L			05/03/18 23:12	1
Hexachlorobutadiene	ND		5.0		ug/L			05/03/18 23:12	1
Isopropylbenzene	ND		2.0		ug/L			05/03/18 23:12	1
m,p-Xylene	ND		2.0		ug/L			05/03/18 23:12	1
Methylene Chloride	ND		5.0		ug/L			05/03/18 23:12	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/03/18 23:12	1
Naphthalene	**33**		5.0		ug/L			05/03/18 23:12	1
n-Butylbenzene	ND		5.0		ug/L			05/03/18 23:12	1
N-Propylbenzene	ND		2.0		ug/L			05/03/18 23:12	1
o-Xylene	ND		2.0		ug/L			05/03/18 23:12	1
sec-Butylbenzene	ND		5.0		ug/L			05/03/18 23:12	1
Styrene	ND		2.0		ug/L			05/03/18 23:12	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			05/03/18 23:12	1
tert-Butylbenzene	ND		5.0		ug/L			05/03/18 23:12	1
Tetrachloroethene	ND		2.0		ug/L			05/03/18 23:12	1
Toluene	ND		2.0		ug/L			05/03/18 23:12	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/03/18 23:12	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/03/18 23:12	1
Trichloroethene	ND		2.0		ug/L			05/03/18 23:12	1
Trichlorofluoromethane	ND		5.0		ug/L			05/03/18 23:12	1
Vinyl chloride	ND		5.0		ug/L			05/03/18 23:12	1
Xylenes, Total	ND		2.0		ug/L			05/03/18 23:12	1
Isopropyl Ether (DIPE)	ND		5.0		ug/L			05/03/18 23:12	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			05/03/18 23:12	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			05/03/18 23:12	1
p-Isopropyltoluene	ND		2.0		ug/L			05/03/18 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*05/03/18 23:12*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/03/18 23:12*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*05/03/18 23:12*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
1,3-Dichlorobenzene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
1,4-Dichlorobenzene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
2,4,5-Trichlorophenol	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
2,4,6-Trichlorophenol	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1

Client Sample ID: PZ-2

Date Collected: 04/28/18 12:36
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-22

Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
2,4-Dimethylphenol	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
2,4-Dinitrophenol	ND		68		ug/L		05/03/18 08:44	05/05/18 20:22	1
2,4-Dinitrotoluene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
2,6-Dinitrotoluene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
2-Chloronaphthalene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
2-Chlorophenol	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
2-Methylnaphthalene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
2-Methylphenol	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
2-Nitroaniline	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
2-Nitrophenol	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
3,3'-Dichlorobenzidine	ND	*	68		ug/L		05/03/18 08:44	05/05/18 20:22	1
3-Nitroaniline	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
4,6-Dinitro-2-methylphenol	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
4-Bromophenyl phenyl ether	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
4-Chloro-3-methylphenol	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
4-Chloroaniline	ND	*	17		ug/L		05/03/18 08:44	05/05/18 20:22	1
4-Chlorophenyl phenyl ether	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
3-Methylphenol + 4-Methylphenol	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
4-Nitroaniline	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
4-Nitrophenol	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
Acenaphthene	**28**		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Acenaphthylene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Aniline	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Anthracene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Benzidine	ND		68		ug/L		05/03/18 08:44	05/05/18 20:22	1
Benzo[a]anthracene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Benzo[a]pyrene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Benzo[b]fluoranthene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Benzo[g,h,i]perylene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Benzo[k]fluoranthene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Benzoic acid	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
Benzyl alcohol	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
Bis(2-chloroethoxy)methane	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Bis(2-chloroethyl)ether	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Bis(2-ethylhexyl) phthalate	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
Butyl benzyl phthalate	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
Chrysene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Dibenz(a,h)anthracene	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
Dibenzofuran	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Diethyl phthalate	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Dimethyl phthalate	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Di-n-butyl phthalate	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
Di-n-octyl phthalate	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
Fluoranthene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Fluorene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Hexachlorobenzene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Hexachlorobutadiene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Hexachlorocyclopentadiene	ND	*	34		ug/L		05/03/18 08:44	05/05/18 20:22	1

Client Sample ID: PZ-2

Date Collected: 04/28/18 12:36
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-22
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Indeno[1,2,3-cd]pyrene	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
Isophorone	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Naphthalene	**19**		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Nitrobenzene	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1
N-Nitrosodi-n-propylamine	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
N-Nitrosodiphenylamine	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Phenanthrene	**17**		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Phenol	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
Pyrene	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
bis (2-chloroisopropyl) ether	ND		17		ug/L		05/03/18 08:44	05/05/18 20:22	1
N-Nitrosodimethylamine	ND		34		ug/L		05/03/18 08:44	05/05/18 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*50 - 120*	*05/03/18 08:44*	*05/05/18 20:22*	*1*
2-Fluorophenol (Surr)	*76*		*30 - 120*	*05/03/18 08:44*	*05/05/18 20:22*	*1*
2,4,6-Tribromophenol (Surr)	*106*		*40 - 120*	*05/03/18 08:44*	*05/05/18 20:22*	*1*
Nitrobenzene-d5 (Surr)	*86*		*45 - 120*	*05/03/18 08:44*	*05/05/18 20:22*	*1*
Terphenyl-d14 (Surr)	*48*		*10 - 150*	*05/03/18 08:44*	*05/05/18 20:22*	*1*
Phenol-d6 (Surr)	*81*		*35 - 120*	*05/03/18 08:44*	*05/05/18 20:22*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**11000**		1700		ug/L		05/03/18 08:44	05/07/18 16:05	50

Client Sample ID: PZ-3

Date Collected: 04/28/18 12:40
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-23
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/03/18 23:39	1
1,1,1-Trichloroethane	ND		2.0		ug/L			05/03/18 23:39	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/03/18 23:39	1
1,1,2-Trichloroethane	ND		2.0		ug/L			05/03/18 23:39	1
1,1-Dichloroethane	ND		2.0		ug/L			05/03/18 23:39	1
1,1-Dichloroethene	ND		5.0		ug/L			05/03/18 23:39	1
1,1-Dichloropropene	ND		2.0		ug/L			05/03/18 23:39	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/03/18 23:39	1
1,2,3-Trichloropropane	ND		10		ug/L			05/03/18 23:39	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/03/18 23:39	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			05/03/18 23:39	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/18 23:39	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			05/03/18 23:39	1
1,2-Dichlorobenzene	ND		2.0		ug/L			05/03/18 23:39	1
1,2-Dichloroethane	ND		2.0		ug/L			05/03/18 23:39	1
1,2-Dichloropropane	ND		2.0		ug/L			05/03/18 23:39	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/03/18 23:39	1
1,3-Dichlorobenzene	ND		2.0		ug/L			05/03/18 23:39	1
1,3-Dichloropropane	ND		2.0		ug/L			05/03/18 23:39	1

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: PZ-3
Date Collected: 04/28/18 12:40
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-23
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		2.0		ug/L			05/03/18 23:39	1
2,2-Dichloropropane	ND		2.0		ug/L			05/03/18 23:39	1
2-Chlorotoluene	ND		5.0		ug/L			05/03/18 23:39	1
4-Chlorotoluene	ND		5.0		ug/L			05/03/18 23:39	1
Benzene	ND		2.0		ug/L			05/03/18 23:39	1
Bromobenzene	ND		5.0		ug/L			05/03/18 23:39	1
Bromochloromethane	ND		5.0		ug/L			05/03/18 23:39	1
Bromodichloromethane	ND		2.0		ug/L			05/03/18 23:39	1
Bromoform	ND		5.0		ug/L			05/03/18 23:39	1
Bromomethane	ND		5.0		ug/L			05/03/18 23:39	1
Carbon tetrachloride	ND		5.0		ug/L			05/03/18 23:39	1
Chlorobenzene	ND		2.0		ug/L			05/03/18 23:39	1
Chloroethane	ND		5.0		ug/L			05/03/18 23:39	1
Chloroform	ND		2.0		ug/L			05/03/18 23:39	1
Chloromethane	ND		5.0		ug/L			05/03/18 23:39	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/03/18 23:39	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/03/18 23:39	1
Dibromochloromethane	ND		2.0		ug/L			05/03/18 23:39	1
Dibromomethane	ND		2.0		ug/L			05/03/18 23:39	1
Dichlorodifluoromethane	ND		5.0		ug/L			05/03/18 23:39	1
Ethylbenzene	ND		2.0		ug/L			05/03/18 23:39	1
Hexachlorobutadiene	ND		5.0		ug/L			05/03/18 23:39	1
Isopropylbenzene	ND		2.0		ug/L			05/03/18 23:39	1
m,p-Xylene	ND		2.0		ug/L			05/03/18 23:39	1
Methylene Chloride	ND		5.0		ug/L			05/03/18 23:39	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/03/18 23:39	1
Naphthalene	ND		5.0		ug/L			05/03/18 23:39	1
n-Butylbenzene	ND		5.0		ug/L			05/03/18 23:39	1
N-Propylbenzene	ND		2.0		ug/L			05/03/18 23:39	1
o-Xylene	ND		2.0		ug/L			05/03/18 23:39	1
sec-Butylbenzene	ND		5.0		ug/L			05/03/18 23:39	1
Styrene	ND		2.0		ug/L			05/03/18 23:39	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			05/03/18 23:39	1
tert-Butylbenzene	ND		5.0		ug/L			05/03/18 23:39	1
Tetrachloroethene	ND		2.0		ug/L			05/03/18 23:39	1
Toluene	ND		2.0		ug/L			05/03/18 23:39	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/03/18 23:39	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/03/18 23:39	1
Trichloroethene	ND		2.0		ug/L			05/03/18 23:39	1
Trichlorofluoromethane	ND		5.0		ug/L			05/03/18 23:39	1
Vinyl chloride	ND		5.0		ug/L			05/03/18 23:39	1
Xylenes, Total	ND		2.0		ug/L			05/03/18 23:39	1
Isopropyl Ether (DIPE)	ND		5.0		ug/L			05/03/18 23:39	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			05/03/18 23:39	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			05/03/18 23:39	1
p-Isopropyltoluene	ND		2.0		ug/L			05/03/18 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*05/03/18 23:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/03/18 23:39*	*1*

Client Sample ID: PZ-3

Date Collected: 04/28/18 12:40
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-23

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*05/03/18 23:39*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
1,3-Dichlorobenzene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
1,4-Dichlorobenzene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
2,4,5-Trichlorophenol	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
2,4,6-Trichlorophenol	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
2,4-Dichlorophenol	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
2,4-Dimethylphenol	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
2,4-Dinitrophenol	ND		45		ug/L		05/03/18 08:44	05/07/18 16:29	1
2,4-Dinitrotoluene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
2,6-Dinitrotoluene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
2-Chloronaphthalene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
2-Chlorophenol	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
2-Methylnaphthalene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
2-Methylphenol	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
2-Nitroaniline	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
2-Nitrophenol	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
3,3'-Dichlorobenzidine	ND	*	45		ug/L		05/03/18 08:44	05/07/18 16:29	1
3-Nitroaniline	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
4,6-Dinitro-2-methylphenol	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
4-Bromophenyl phenyl ether	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
4-Chloro-3-methylphenol	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
4-Chloroaniline	ND	*	11		ug/L		05/03/18 08:44	05/07/18 16:29	1
4-Chlorophenyl phenyl ether	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
3-Methylphenol + 4-Methylphenol	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
4-Nitroaniline	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
4-Nitrophenol	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Acenaphthene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Acenaphthylene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Aniline	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Anthracene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Benzidine	ND		45		ug/L		05/03/18 08:44	05/07/18 16:29	1
Benzo[a]anthracene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Benzo[a]pyrene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Benzo[b]fluoranthene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Benzo[g,h,i]perylene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Benzo[k]fluoranthene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Benzoic acid	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Benzyl alcohol	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Bis(2-chloroethoxy)methane	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Bis(2-chloroethyl)ether	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Bis(2-ethylhexyl) phthalate	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Butyl benzyl phthalate	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Chrysene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Dibenz(a,h)anthracene	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Dibenzofuran	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1

Client Sample ID: PZ-3

Date Collected: 04/28/18 12:40
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-23
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Dimethyl phthalate	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Di-n-butyl phthalate	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Di-n-octyl phthalate	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Fluoranthene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Fluorene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Hexachlorobenzene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Hexachlorobutadiene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Hexachlorocyclopentadiene	ND	*	23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Hexachloroethane	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Indeno[1,2,3-cd]pyrene	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Isophorone	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Naphthalene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Nitrobenzene	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
N-Nitrosodi-n-propylamine	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
N-Nitrosodiphenylamine	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Pentachlorophenol	**230**		23		ug/L		05/03/18 08:44	05/07/18 16:29	1
Phenanthrene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Phenol	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
Pyrene	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
bis (2-chloroisopropyl) ether	ND		11		ug/L		05/03/18 08:44	05/07/18 16:29	1
N-Nitrosodimethylamine	ND		23		ug/L		05/03/18 08:44	05/07/18 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*50 - 120*	*05/03/18 08:44*	*05/07/18 16:29*	*1*
2-Fluorophenol (Surr)	*77*		*30 - 120*	*05/03/18 08:44*	*05/07/18 16:29*	*1*
2,4,6-Tribromophenol (Surr)	*119*		*40 - 120*	*05/03/18 08:44*	*05/07/18 16:29*	*1*
Nitrobenzene-d5 (Surr)	*91*		*45 - 120*	*05/03/18 08:44*	*05/07/18 16:29*	*1*
Terphenyl-d14 (Surr)	*97*		*10 - 150*	*05/03/18 08:44*	*05/07/18 16:29*	*1*
Phenol-d6 (Surr)	*81*		*35 - 120*	*05/03/18 08:44*	*05/07/18 16:29*	*1*

Client Sample ID: PZ-5

Date Collected: 04/28/18 12:51
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-24
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/04/18 00:06	1
1,1,1-Trichloroethane	ND		2.0		ug/L			05/04/18 00:06	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/04/18 00:06	1
1,1,2-Trichloroethane	ND		2.0		ug/L			05/04/18 00:06	1
1,1-Dichloroethane	ND		2.0		ug/L			05/04/18 00:06	1
1,1-Dichloroethene	ND		5.0		ug/L			05/04/18 00:06	1
1,1-Dichloropropene	ND		2.0		ug/L			05/04/18 00:06	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/04/18 00:06	1
1,2,3-Trichloropropane	ND		10		ug/L			05/04/18 00:06	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/04/18 00:06	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			05/04/18 00:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/18 00:06	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			05/04/18 00:06	1

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: PZ-5
Date Collected: 04/28/18 12:51
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-24
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		2.0		ug/L			05/04/18 00:06	1
1,2-Dichloroethane	ND		2.0		ug/L			05/04/18 00:06	1
1,2-Dichloropropane	ND		2.0		ug/L			05/04/18 00:06	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/04/18 00:06	1
1,3-Dichlorobenzene	ND		2.0		ug/L			05/04/18 00:06	1
1,3-Dichloropropane	ND		2.0		ug/L			05/04/18 00:06	1
1,4-Dichlorobenzene	ND		2.0		ug/L			05/04/18 00:06	1
2,2-Dichloropropane	ND		2.0		ug/L			05/04/18 00:06	1
2-Chlorotoluene	ND		5.0		ug/L			05/04/18 00:06	1
4-Chlorotoluene	ND		5.0		ug/L			05/04/18 00:06	1
Benzene	ND		2.0		ug/L			05/04/18 00:06	1
Bromobenzene	ND		5.0		ug/L			05/04/18 00:06	1
Bromochloromethane	ND		5.0		ug/L			05/04/18 00:06	1
Bromodichloromethane	ND		2.0		ug/L			05/04/18 00:06	1
Bromoform	ND		5.0		ug/L			05/04/18 00:06	1
Bromomethane	ND		5.0		ug/L			05/04/18 00:06	1
Carbon tetrachloride	ND		5.0		ug/L			05/04/18 00:06	1
Chlorobenzene	ND		2.0		ug/L			05/04/18 00:06	1
Chloroethane	ND		5.0		ug/L			05/04/18 00:06	1
Chloroform	ND		2.0		ug/L			05/04/18 00:06	1
Chloromethane	ND		5.0		ug/L			05/04/18 00:06	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/04/18 00:06	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/04/18 00:06	1
Dibromochloromethane	ND		2.0		ug/L			05/04/18 00:06	1
Dibromomethane	ND		2.0		ug/L			05/04/18 00:06	1
Dichlorodifluoromethane	ND		5.0		ug/L			05/04/18 00:06	1
Ethylbenzene	ND		2.0		ug/L			05/04/18 00:06	1
Hexachlorobutadiene	ND		5.0		ug/L			05/04/18 00:06	1
Isopropylbenzene	ND		2.0		ug/L			05/04/18 00:06	1
m,p-Xylene	ND		2.0		ug/L			05/04/18 00:06	1
Methylene Chloride	ND		5.0		ug/L			05/04/18 00:06	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/04/18 00:06	1
Naphthalene	ND		5.0		ug/L			05/04/18 00:06	1
n-Butylbenzene	ND		5.0		ug/L			05/04/18 00:06	1
N-Propylbenzene	ND		2.0		ug/L			05/04/18 00:06	1
o-Xylene	ND		2.0		ug/L			05/04/18 00:06	1
sec-Butylbenzene	ND		5.0		ug/L			05/04/18 00:06	1
Styrene	ND		2.0		ug/L			05/04/18 00:06	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			05/04/18 00:06	1
tert-Butylbenzene	ND		5.0		ug/L			05/04/18 00:06	1
Tetrachloroethene	ND		2.0		ug/L			05/04/18 00:06	1
Toluene	ND		2.0		ug/L			05/04/18 00:06	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/04/18 00:06	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/04/18 00:06	1
Trichloroethene	ND		2.0		ug/L			05/04/18 00:06	1
Trichlorofluoromethane	ND		5.0		ug/L			05/04/18 00:06	1
Vinyl chloride	ND		5.0		ug/L			05/04/18 00:06	1
Xylenes, Total	ND		2.0		ug/L			05/04/18 00:06	1
Isopropyl Ether (DIPE)	ND		5.0		ug/L			05/04/18 00:06	1

Client Sample ID: PZ-5

Date Collected: 04/28/18 12:51
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-24

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			05/04/18 00:06	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			05/04/18 00:06	1
p-Isopropyltoluene	ND		2.0		ug/L			05/04/18 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*05/04/18 00:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/04/18 00:06*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*05/04/18 00:06*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
1,3-Dichlorobenzene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
1,4-Dichlorobenzene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
2,4,5-Trichlorophenol	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
2,4,6-Trichlorophenol	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
2,4-Dichlorophenol	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
2,4-Dimethylphenol	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
2,4-Dinitrophenol	ND		48		ug/L		05/03/18 08:44	05/07/18 16:53	1
2,4-Dinitrotoluene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
2,6-Dinitrotoluene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
2-Chloronaphthalene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
2-Chlorophenol	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
2-Methylnaphthalene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
2-Methylphenol	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
2-Nitroaniline	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
2-Nitrophenol	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
3,3'-Dichlorobenzidine	ND	*	48		ug/L		05/03/18 08:44	05/07/18 16:53	1
3-Nitroaniline	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
4,6-Dinitro-2-methylphenol	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
4-Bromophenyl phenyl ether	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
4-Chloro-3-methylphenol	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
4-Chloroaniline	ND	*	12		ug/L		05/03/18 08:44	05/07/18 16:53	1
4-Chlorophenyl phenyl ether	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
3-Methylphenol + 4-Methylphenol	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
4-Nitroaniline	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
4-Nitrophenol	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Acenaphthene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Acenaphthylene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Aniline	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Anthracene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Benzidine	ND		48		ug/L		05/03/18 08:44	05/07/18 16:53	1
Benzo[a]anthracene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Benzo[a]pyrene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Benzo[b]fluoranthene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Benzo[g,h,i]perylene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Benzo[k]fluoranthene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Benzoic acid	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Benzyl alcohol	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Bis(2-chloroethoxy)methane	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1

Client Sample ID: PZ-5

Date Collected: 04/28/18 12:51
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-24
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Bis(2-ethylhexyl) phthalate	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Butyl benzyl phthalate	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Chrysene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Dibenz(a,h)anthracene	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Dibenzofuran	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Diethyl phthalate	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Dimethyl phthalate	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Di-n-butyl phthalate	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Di-n-octyl phthalate	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Fluoranthene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Fluorene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Hexachlorobenzene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Hexachlorobutadiene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Hexachlorocyclopentadiene	ND	*	24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Hexachloroethane	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Indeno[1,2,3-cd]pyrene	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Isophorone	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Naphthalene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Nitrobenzene	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
N-Nitrosodi-n-propylamine	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
N-Nitrosodiphenylamine	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Pentachlorophenol	**35**		24		ug/L		05/03/18 08:44	05/07/18 16:53	1
Phenanthrene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Phenol	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
Pyrene	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
bis (2-chloroisopropyl) ether	ND		12		ug/L		05/03/18 08:44	05/07/18 16:53	1
N-Nitrosodimethylamine	ND		24		ug/L		05/03/18 08:44	05/07/18 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*100*		*50 - 120*	*05/03/18 08:44*	*05/07/18 16:53*	*1*
2-Fluorophenol (Surr)	*83*		*30 - 120*	*05/03/18 08:44*	*05/07/18 16:53*	*1*
2,4,6-Tribromophenol (Surr)	*118*		*40 - 120*	*05/03/18 08:44*	*05/07/18 16:53*	*1*
Nitrobenzene-d5 (Surr)	*94*		*45 - 120*	*05/03/18 08:44*	*05/07/18 16:53*	*1*
Terphenyl-d14 (Surr)	*82*		*10 - 150*	*05/03/18 08:44*	*05/07/18 16:53*	*1*
Phenol-d6 (Surr)	*86*		*35 - 120*	*05/03/18 08:44*	*05/07/18 16:53*	*1*

Client Sample ID: PZ-4

Date Collected: 04/28/18 12:59
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-25
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/04/18 00:33	1
1,1,1-Trichloroethane	ND		2.0		ug/L			05/04/18 00:33	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/04/18 00:33	1
1,1,2-Trichloroethane	ND		2.0		ug/L			05/04/18 00:33	1
1,1-Dichloroethane	ND		2.0		ug/L			05/04/18 00:33	1
1,1-Dichloroethene	ND		5.0		ug/L			05/04/18 00:33	1
1,1-Dichloropropene	ND		2.0		ug/L			05/04/18 00:33	1

Client Sample ID: PZ-4
Date Collected: 04/28/18 12:59
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-25
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/04/18 00:33	1
1,2,3-Trichloropropane	ND		10		ug/L			05/04/18 00:33	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/04/18 00:33	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			05/04/18 00:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/18 00:33	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			05/04/18 00:33	1
1,2-Dichlorobenzene	ND		2.0		ug/L			05/04/18 00:33	1
1,2-Dichloroethane	ND		2.0		ug/L			05/04/18 00:33	1
1,2-Dichloropropane	ND		2.0		ug/L			05/04/18 00:33	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/04/18 00:33	1
1,3-Dichlorobenzene	ND		2.0		ug/L			05/04/18 00:33	1
1,3-Dichloropropane	ND		2.0		ug/L			05/04/18 00:33	1
1,4-Dichlorobenzene	ND		2.0		ug/L			05/04/18 00:33	1
2,2-Dichloropropane	ND		2.0		ug/L			05/04/18 00:33	1
2-Chlorotoluene	ND		5.0		ug/L			05/04/18 00:33	1
4-Chlorotoluene	ND		5.0		ug/L			05/04/18 00:33	1
Benzene	ND		2.0		ug/L			05/04/18 00:33	1
Bromobenzene	ND		5.0		ug/L			05/04/18 00:33	1
Bromochloromethane	ND		5.0		ug/L			05/04/18 00:33	1
Bromodichloromethane	ND		2.0		ug/L			05/04/18 00:33	1
Bromoform	ND		5.0		ug/L			05/04/18 00:33	1
Bromomethane	ND		5.0		ug/L			05/04/18 00:33	1
Carbon tetrachloride	ND		5.0		ug/L			05/04/18 00:33	1
Chlorobenzene	ND		2.0		ug/L			05/04/18 00:33	1
Chloroethane	ND		5.0		ug/L			05/04/18 00:33	1
Chloroform	ND		2.0		ug/L			05/04/18 00:33	1
Chloromethane	ND		5.0		ug/L			05/04/18 00:33	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/04/18 00:33	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/04/18 00:33	1
Dibromochloromethane	ND		2.0		ug/L			05/04/18 00:33	1
Dibromomethane	ND		2.0		ug/L			05/04/18 00:33	1
Dichlorodifluoromethane	ND		5.0		ug/L			05/04/18 00:33	1
Ethylbenzene	ND		2.0		ug/L			05/04/18 00:33	1
Hexachlorobutadiene	ND		5.0		ug/L			05/04/18 00:33	1
Isopropylbenzene	ND		2.0		ug/L			05/04/18 00:33	1
m,p-Xylene	ND		2.0		ug/L			05/04/18 00:33	1
Methylene Chloride	ND		5.0		ug/L			05/04/18 00:33	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/04/18 00:33	1
Naphthalene	**7.1**		5.0		ug/L			05/04/18 00:33	1
n-Butylbenzene	ND		5.0		ug/L			05/04/18 00:33	1
N-Propylbenzene	ND		2.0		ug/L			05/04/18 00:33	1
o-Xylene	ND		2.0		ug/L			05/04/18 00:33	1
sec-Butylbenzene	ND		5.0		ug/L			05/04/18 00:33	1
Styrene	ND		2.0		ug/L			05/04/18 00:33	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			05/04/18 00:33	1
tert-Butylbenzene	ND		5.0		ug/L			05/04/18 00:33	1
Tetrachloroethene	ND		2.0		ug/L			05/04/18 00:33	1
Toluene	ND		2.0		ug/L			05/04/18 00:33	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/04/18 00:33	1

Client Sample ID: PZ-4
Date Collected: 04/28/18 12:59
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-25
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/04/18 00:33	1
Trichloroethene	ND		2.0		ug/L			05/04/18 00:33	1
Trichlorofluoromethane	ND		5.0		ug/L			05/04/18 00:33	1
Vinyl chloride	ND		5.0		ug/L			05/04/18 00:33	1
Xylenes, Total	ND		2.0		ug/L			05/04/18 00:33	1
Isopropyl Ether (DIPE)	ND		5.0		ug/L			05/04/18 00:33	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			05/04/18 00:33	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			05/04/18 00:33	1
p-Isopropyltoluene	ND		2.0		ug/L			05/04/18 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*05/04/18 00:33*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/04/18 00:33*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*05/04/18 00:33*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
1,3-Dichlorobenzene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
1,4-Dichlorobenzene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
2,4,5-Trichlorophenol	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
2,4,6-Trichlorophenol	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
2,4-Dichlorophenol	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
2,4-Dimethylphenol	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
2,4-Dinitrophenol	ND		53		ug/L		05/03/18 08:44	05/05/18 21:58	1
2,4-Dinitrotoluene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
2,6-Dinitrotoluene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
2-Chloronaphthalene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
2-Chlorophenol	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
2-Methylnaphthalene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
2-Methylphenol	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
2-Nitroaniline	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
2-Nitrophenol	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
3,3'-Dichlorobenzidine	ND	*	53		ug/L		05/03/18 08:44	05/05/18 21:58	1
3-Nitroaniline	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
4,6-Dinitro-2-methylphenol	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
4-Bromophenyl phenyl ether	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
4-Chloro-3-methylphenol	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
4-Chloroaniline	ND	*	13		ug/L		05/03/18 08:44	05/05/18 21:58	1
4-Chlorophenyl phenyl ether	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
3-Methylphenol + 4-Methylphenol	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
4-Nitroaniline	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
4-Nitrophenol	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
Acenaphthene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Acenaphthylene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Aniline	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Anthracene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Benzidine	ND		53		ug/L		05/03/18 08:44	05/05/18 21:58	1
Benzo[a]anthracene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Benzo[a]pyrene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: PZ-4
Date Collected: 04/28/18 12:59
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-25
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Benzo[g,h,i]perylene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Benzo[k]fluoranthene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Benzoic acid	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
Benzyl alcohol	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
Bis(2-chloroethoxy)methane	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Bis(2-chloroethyl)ether	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Bis(2-ethylhexyl) phthalate	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
Butyl benzyl phthalate	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
Chrysene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Dibenz(a,h)anthracene	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
Dibenzofuran	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Diethyl phthalate	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Dimethyl phthalate	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Di-n-butyl phthalate	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
Di-n-octyl phthalate	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
Fluoranthene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Fluorene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Hexachlorobenzene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Hexachlorobutadiene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Hexachlorocyclopentadiene	ND	*	26		ug/L		05/03/18 08:44	05/05/18 21:58	1
Hexachloroethane	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Indeno[1,2,3-cd]pyrene	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
Isophorone	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Naphthalene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Nitrobenzene	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1
N-Nitrosodi-n-propylamine	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
N-Nitrosodiphenylamine	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Phenanthrene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Phenol	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
Pyrene	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
bis (2-chloroisopropyl) ether	ND		13		ug/L		05/03/18 08:44	05/05/18 21:58	1
N-Nitrosodimethylamine	ND		26		ug/L		05/03/18 08:44	05/05/18 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*50 - 120*	*05/03/18 08:44*	*05/05/18 21:58*	*1*
2-Fluorophenol (Surr)	*74*		*30 - 120*	*05/03/18 08:44*	*05/05/18 21:58*	*1*
2,4,6-Tribromophenol (Surr)	*110*		*40 - 120*	*05/03/18 08:44*	*05/05/18 21:58*	*1*
Nitrobenzene-d5 (Surr)	*84*		*45 - 120*	*05/03/18 08:44*	*05/05/18 21:58*	*1*
Terphenyl-d14 (Surr)	*79*		*10 - 150*	*05/03/18 08:44*	*05/05/18 21:58*	*1*
Phenol-d6 (Surr)	*79*		*35 - 120*	*05/03/18 08:44*	*05/05/18 21:58*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**1300**		130		ug/L		05/03/18 08:44	05/07/18 17:18	5

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: PZ-6
Date Collected: 04/28/18 13:11
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-26
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/04/18 01:00	1
1,1,1-Trichloroethane	ND		2.0		ug/L			05/04/18 01:00	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/04/18 01:00	1
1,1,2-Trichloroethane	ND		2.0		ug/L			05/04/18 01:00	1
1,1-Dichloroethane	ND		2.0		ug/L			05/04/18 01:00	1
1,1-Dichloroethene	ND		5.0		ug/L			05/04/18 01:00	1
1,1-Dichloropropene	ND		2.0		ug/L			05/04/18 01:00	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/04/18 01:00	1
1,2,3-Trichloropropane	ND		10		ug/L			05/04/18 01:00	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/04/18 01:00	1
1,2,4-Trimethylbenzene	**3.9**		2.0		ug/L			05/04/18 01:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/18 01:00	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			05/04/18 01:00	1
1,2-Dichlorobenzene	ND		2.0		ug/L			05/04/18 01:00	1
1,2-Dichloroethane	ND		2.0		ug/L			05/04/18 01:00	1
1,2-Dichloropropane	ND		2.0		ug/L			05/04/18 01:00	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/04/18 01:00	1
1,3-Dichlorobenzene	ND		2.0		ug/L			05/04/18 01:00	1
1,3-Dichloropropane	ND		2.0		ug/L			05/04/18 01:00	1
1,4-Dichlorobenzene	ND		2.0		ug/L			05/04/18 01:00	1
2,2-Dichloropropane	ND		2.0		ug/L			05/04/18 01:00	1
2-Chlorotoluene	ND		5.0		ug/L			05/04/18 01:00	1
4-Chlorotoluene	ND		5.0		ug/L			05/04/18 01:00	1
Benzene	ND		2.0		ug/L			05/04/18 01:00	1
Bromobenzene	ND		5.0		ug/L			05/04/18 01:00	1
Bromochloromethane	ND		5.0		ug/L			05/04/18 01:00	1
Bromodichloromethane	ND		2.0		ug/L			05/04/18 01:00	1
Bromoform	ND		5.0		ug/L			05/04/18 01:00	1
Bromomethane	ND		5.0		ug/L			05/04/18 01:00	1
Carbon tetrachloride	ND		5.0		ug/L			05/04/18 01:00	1
Chlorobenzene	ND		2.0		ug/L			05/04/18 01:00	1
Chloroethane	ND		5.0		ug/L			05/04/18 01:00	1
Chloroform	ND		2.0		ug/L			05/04/18 01:00	1
Chloromethane	ND		5.0		ug/L			05/04/18 01:00	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/04/18 01:00	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/04/18 01:00	1
Dibromochloromethane	ND		2.0		ug/L			05/04/18 01:00	1
Dibromomethane	ND		2.0		ug/L			05/04/18 01:00	1
Dichlorodifluoromethane	ND		5.0		ug/L			05/04/18 01:00	1
Ethylbenzene	ND		2.0		ug/L			05/04/18 01:00	1
Hexachlorobutadiene	ND		5.0		ug/L			05/04/18 01:00	1
Isopropylbenzene	**2.0**		2.0		ug/L			05/04/18 01:00	1
m,p-Xylene	ND		2.0		ug/L			05/04/18 01:00	1
Methylene Chloride	ND		5.0		ug/L			05/04/18 01:00	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/04/18 01:00	1
Naphthalene	ND		5.0		ug/L			05/04/18 01:00	1
n-Butylbenzene	ND		5.0		ug/L			05/04/18 01:00	1
N-Propylbenzene	**2.9**		2.0		ug/L			05/04/18 01:00	1
o-Xylene	ND		2.0		ug/L			05/04/18 01:00	1

Client Sample ID: PZ-6

Date Collected: 04/28/18 13:11
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-26

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		5.0		ug/L			05/04/18 01:00	1
Styrene	ND		2.0		ug/L			05/04/18 01:00	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			05/04/18 01:00	1
tert-Butylbenzene	ND		5.0		ug/L			05/04/18 01:00	1
Tetrachloroethene	ND		2.0		ug/L			05/04/18 01:00	1
Toluene	ND		2.0		ug/L			05/04/18 01:00	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/04/18 01:00	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/04/18 01:00	1
Trichloroethene	ND		2.0		ug/L			05/04/18 01:00	1
Trichlorofluoromethane	ND		5.0		ug/L			05/04/18 01:00	1
Vinyl chloride	ND		5.0		ug/L			05/04/18 01:00	1
Xylenes, Total	ND		2.0		ug/L			05/04/18 01:00	1
Isopropyl Ether (DIPE)	ND		5.0		ug/L			05/04/18 01:00	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			05/04/18 01:00	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			05/04/18 01:00	1
p-Isopropyltoluene	ND		2.0		ug/L			05/04/18 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 128*		*05/04/18 01:00*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/04/18 01:00*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*05/04/18 01:00*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
1,3-Dichlorobenzene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
1,4-Dichlorobenzene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
2,4,5-Trichlorophenol	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
2,4,6-Trichlorophenol	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
2,4-Dichlorophenol	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
2,4-Dimethylphenol	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
2,4-Dinitrophenol	ND		48		ug/L		05/03/18 08:44	05/05/18 22:23	1
2,4-Dinitrotoluene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
2,6-Dinitrotoluene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
2-Chloronaphthalene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
2-Chlorophenol	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
2-Methylnaphthalene	**30**		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
2-Methylphenol	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
2-Nitroaniline	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
2-Nitrophenol	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
3,3'-Dichlorobenzidine	ND	*	48		ug/L		05/03/18 08:44	05/05/18 22:23	1
3-Nitroaniline	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
4,6-Dinitro-2-methylphenol	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
4-Bromophenyl phenyl ether	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
4-Chloro-3-methylphenol	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
4-Chloroaniline	ND	*	12		ug/L		05/03/18 08:44	05/05/18 22:23	1
4-Chlorophenyl phenyl ether	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
3-Methylphenol + 4-Methylphenol	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
4-Nitroaniline	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
4-Nitrophenol	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1

Client Sample ID: PZ-6
Date Collected: 04/28/18 13:11
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-26
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Acenaphthylene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Aniline	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Anthracene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Benzidine	ND		48		ug/L		05/03/18 08:44	05/05/18 22:23	1
Benzo[a]anthracene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Benzo[a]pyrene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Benzo[b]fluoranthene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Benzo[g,h,i]perylene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Benzo[k]fluoranthene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Benzoic acid	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
Benzyl alcohol	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
Bis(2-chloroethoxy)methane	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Bis(2-chloroethyl)ether	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Bis(2-ethylhexyl) phthalate	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
Butyl benzyl phthalate	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
Chrysene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Dibenz(a,h)anthracene	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
Dibenzofuran	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Diethyl phthalate	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Dimethyl phthalate	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Di-n-butyl phthalate	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
Di-n-octyl phthalate	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
Fluoranthene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Fluorene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Hexachlorobenzene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Hexachlorobutadiene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Hexachlorocyclopentadiene	ND	*	24		ug/L		05/03/18 08:44	05/05/18 22:23	1
Hexachloroethane	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Indeno[1,2,3-cd]pyrene	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
Isophorone	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Naphthalene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Nitrobenzene	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1
N-Nitrosodi-n-propylamine	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
N-Nitrosodiphenylamine	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Phenanthrene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Phenol	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
Pyrene	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
bis (2-chloroisopropyl) ether	ND		12		ug/L		05/03/18 08:44	05/05/18 22:23	1
N-Nitrosodimethylamine	ND		24		ug/L		05/03/18 08:44	05/05/18 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*50 - 120*	*05/03/18 08:44*	*05/05/18 22:23*	*1*
2-Fluorophenol (Surr)	*71*		*30 - 120*	*05/03/18 08:44*	*05/05/18 22:23*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*40 - 120*	*05/03/18 08:44*	*05/05/18 22:23*	*1*
Nitrobenzene-d5 (Surr)	*81*		*45 - 120*	*05/03/18 08:44*	*05/05/18 22:23*	*1*
Terphenyl-d14 (Surr)	*70*		*10 - 150*	*05/03/18 08:44*	*05/05/18 22:23*	*1*
Phenol-d6 (Surr)	*73*		*35 - 120*	*05/03/18 08:44*	*05/05/18 22:23*	*1*

Client Sample ID: PZ-6

Lab Sample ID: 440-210294-26

Date Collected: 04/28/18 13:11

Matrix: Water

Date Received: 05/02/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	2100		240		ug/L		05/03/18 08:44	05/07/18 17:42	10

Client Sample ID: PZ-8

Lab Sample ID: 440-210294-27

Date Collected: 04/28/18 13:21

Matrix: Water

Date Received: 05/02/18 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/04/18 01:27	1
1,1,1-Trichloroethane	ND		2.0		ug/L			05/04/18 01:27	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/04/18 01:27	1
1,1,2-Trichloroethane	ND		2.0		ug/L			05/04/18 01:27	1
1,1-Dichloroethane	ND		2.0		ug/L			05/04/18 01:27	1
1,1-Dichloroethene	ND		5.0		ug/L			05/04/18 01:27	1
1,1-Dichloropropene	ND		2.0		ug/L			05/04/18 01:27	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/04/18 01:27	1
1,2,3-Trichloropropane	ND		10		ug/L			05/04/18 01:27	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/04/18 01:27	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			05/04/18 01:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/18 01:27	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			05/04/18 01:27	1
1,2-Dichlorobenzene	ND		2.0		ug/L			05/04/18 01:27	1
1,2-Dichloroethane	ND		2.0		ug/L			05/04/18 01:27	1
1,2-Dichloropropane	ND		2.0		ug/L			05/04/18 01:27	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/04/18 01:27	1
1,3-Dichlorobenzene	ND		2.0		ug/L			05/04/18 01:27	1
1,3-Dichloropropane	ND		2.0		ug/L			05/04/18 01:27	1
1,4-Dichlorobenzene	ND		2.0		ug/L			05/04/18 01:27	1
2,2-Dichloropropane	ND		2.0		ug/L			05/04/18 01:27	1
2-Chlorotoluene	ND		5.0		ug/L			05/04/18 01:27	1
4-Chlorotoluene	ND		5.0		ug/L			05/04/18 01:27	1
Benzene	ND		2.0		ug/L			05/04/18 01:27	1
Bromobenzene	ND		5.0		ug/L			05/04/18 01:27	1
Bromochloromethane	ND		5.0		ug/L			05/04/18 01:27	1
Bromodichloromethane	ND		2.0		ug/L			05/04/18 01:27	1
Bromoform	ND		5.0		ug/L			05/04/18 01:27	1
Bromomethane	ND		5.0		ug/L			05/04/18 01:27	1
Carbon tetrachloride	ND		5.0		ug/L			05/04/18 01:27	1
Chlorobenzene	ND		2.0		ug/L			05/04/18 01:27	1
Chloroethane	ND		5.0		ug/L			05/04/18 01:27	1
Chloroform	ND		2.0		ug/L			05/04/18 01:27	1
Chloromethane	ND		5.0		ug/L			05/04/18 01:27	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/04/18 01:27	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/04/18 01:27	1
Dibromochloromethane	ND		2.0		ug/L			05/04/18 01:27	1
Dibromomethane	ND		2.0		ug/L			05/04/18 01:27	1
Dichlorodifluoromethane	ND		5.0		ug/L			05/04/18 01:27	1
Ethylbenzene	ND		2.0		ug/L			05/04/18 01:27	1
Hexachlorobutadiene	ND		5.0		ug/L			05/04/18 01:27	1
Isopropylbenzene	ND		2.0		ug/L			05/04/18 01:27	1

Client Sample ID: PZ-8

Date Collected: 04/28/18 13:21
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-27

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	**2.0**		2.0		ug/L			05/04/18 01:27	1
Methylene Chloride	ND		5.0		ug/L			05/04/18 01:27	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/04/18 01:27	1
n-Butylbenzene	ND		5.0		ug/L			05/04/18 01:27	1
N-Propylbenzene	ND		2.0		ug/L			05/04/18 01:27	1
o-Xylene	ND		2.0		ug/L			05/04/18 01:27	1
sec-Butylbenzene	ND		5.0		ug/L			05/04/18 01:27	1
Styrene	ND		2.0		ug/L			05/04/18 01:27	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			05/04/18 01:27	1
tert-Butylbenzene	ND		5.0		ug/L			05/04/18 01:27	1
Tetrachloroethene	ND		2.0		ug/L			05/04/18 01:27	1
Toluene	ND		2.0		ug/L			05/04/18 01:27	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/04/18 01:27	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/04/18 01:27	1
Trichloroethene	ND		2.0		ug/L			05/04/18 01:27	1
Trichlorofluoromethane	ND		5.0		ug/L			05/04/18 01:27	1
Vinyl chloride	ND		5.0		ug/L			05/04/18 01:27	1
Xylenes, Total	**2.0**		2.0		ug/L			05/04/18 01:27	1
Isopropyl Ether (DIPE)	ND		5.0		ug/L			05/04/18 01:27	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			05/04/18 01:27	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			05/04/18 01:27	1
p-Isopropyltoluene	ND		2.0		ug/L			05/04/18 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*05/04/18 01:27*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/04/18 01:27*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*05/04/18 01:27*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**290**		50		ug/L			05/04/18 15:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 128*		*05/04/18 15:52*	*10*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/04/18 15:52*	*10*
Dibromofluoromethane (Surr)	*111*		*76 - 132*		*05/04/18 15:52*	*10*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
1,3-Dichlorobenzene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
1,4-Dichlorobenzene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2,4,5-Trichlorophenol	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2,4,6-Trichlorophenol	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2,4-Dichlorophenol	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2,4-Dimethylphenol	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2,4-Dinitrophenol	ND		140		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2,4-Dinitrotoluene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2,6-Dinitrotoluene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2-Chloronaphthalene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5

Client Sample ID: PZ-8
Date Collected: 04/28/18 13:21
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-27
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2-Methylnaphthalene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2-Methylphenol	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2-Nitroaniline	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
2-Nitrophenol	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
3,3'-Dichlorobenzidine	ND	*	140		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
3-Nitroaniline	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
4,6-Dinitro-2-methylphenol	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
4-Bromophenyl phenyl ether	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
4-Chloro-3-methylphenol	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
4-Chloroaniline	ND	*	36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
4-Chlorophenyl phenyl ether	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
3-Methylphenol + 4-Methylphenol	**40**		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
4-Nitroaniline	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
4-Nitrophenol	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Acenaphthene	**56**		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Acenaphthylene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Aniline	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Anthracene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Benzidine	ND		140		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Benzo[a]anthracene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Benzo[a]pyrene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Benzo[b]fluoranthene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Benzo[g,h,i]perylene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Benzo[k]fluoranthene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Benzoic acid	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Benzyl alcohol	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Bis(2-chloroethoxy)methane	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Bis(2-chloroethyl)ether	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Bis(2-ethylhexyl) phthalate	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Butyl benzyl phthalate	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Chrysene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Dibenz(a,h)anthracene	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Dibenzofuran	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Diethyl phthalate	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Dimethyl phthalate	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Di-n-butyl phthalate	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Di-n-octyl phthalate	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Fluoranthene	**130**		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Fluorene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Hexachlorobenzene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Hexachlorobutadiene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Hexachlorocyclopentadiene	ND	*	72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Hexachloroethane	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Indeno[1,2,3-cd]pyrene	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Isophorone	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Naphthalene	**190**		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Nitrobenzene	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
N-Nitrosodi-n-propylamine	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5

Client Sample ID: PZ-8

Date Collected: 04/28/18 13:21
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-27
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Phenanthrene	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Phenol	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
Pyrene	**82**		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
bis (2-chloroisopropyl) ether	ND		36		ug/L		05/03/18 08:44	05/06/18 02:48	2.5
N-Nitrosodimethylamine	ND		72		ug/L		05/03/18 08:44	05/06/18 02:48	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*50 - 120*	*05/03/18 08:44*	*05/06/18 02:48*	*2.5*
2-Fluorophenol (Surr)	*72*		*30 - 120*	*05/03/18 08:44*	*05/06/18 02:48*	*2.5*
2,4,6-Tribromophenol (Surr)	*102*		*40 - 120*	*05/03/18 08:44*	*05/06/18 02:48*	*2.5*
Nitrobenzene-d5 (Surr)	*82*		*45 - 120*	*05/03/18 08:44*	*05/06/18 02:48*	*2.5*
Terphenyl-d14 (Surr)	*64*		*10 - 150*	*05/03/18 08:44*	*05/06/18 02:48*	*2.5*
Phenol-d6 (Surr)	*78*		*35 - 120*	*05/03/18 08:44*	*05/06/18 02:48*	*2.5*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**11000**		1400		ug/L		05/03/18 08:44	05/07/18 18:06	50

Client Sample ID: PZ-7

Date Collected: 04/28/18 13:30
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-28
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/04/18 01:54	1
1,1,1-Trichloroethane	ND		2.0		ug/L			05/04/18 01:54	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/04/18 01:54	1
1,1,2-Trichloroethane	ND		2.0		ug/L			05/04/18 01:54	1
1,1-Dichloroethane	ND		2.0		ug/L			05/04/18 01:54	1
1,1-Dichloroethene	ND		5.0		ug/L			05/04/18 01:54	1
1,1-Dichloropropene	ND		2.0		ug/L			05/04/18 01:54	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/04/18 01:54	1
1,2,3-Trichloropropane	ND		10		ug/L			05/04/18 01:54	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/04/18 01:54	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			05/04/18 01:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/04/18 01:54	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			05/04/18 01:54	1
1,2-Dichlorobenzene	ND		2.0		ug/L			05/04/18 01:54	1
1,2-Dichloroethane	ND		2.0		ug/L			05/04/18 01:54	1
1,2-Dichloropropane	ND		2.0		ug/L			05/04/18 01:54	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/04/18 01:54	1
1,3-Dichlorobenzene	ND		2.0		ug/L			05/04/18 01:54	1
1,3-Dichloropropane	ND		2.0		ug/L			05/04/18 01:54	1
1,4-Dichlorobenzene	ND		2.0		ug/L			05/04/18 01:54	1
2,2-Dichloropropane	ND		2.0		ug/L			05/04/18 01:54	1
2-Chlorotoluene	ND		5.0		ug/L			05/04/18 01:54	1
4-Chlorotoluene	ND		5.0		ug/L			05/04/18 01:54	1
Benzene	ND		2.0		ug/L			05/04/18 01:54	1
Bromobenzene	ND		5.0		ug/L			05/04/18 01:54	1

Client Sample ID: PZ-7
Date Collected: 04/28/18 13:30
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-28
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		5.0		ug/L			05/04/18 01:54	1
Bromodichloromethane	ND		2.0		ug/L			05/04/18 01:54	1
Bromoform	ND		5.0		ug/L			05/04/18 01:54	1
Bromomethane	ND		5.0		ug/L			05/04/18 01:54	1
Carbon tetrachloride	ND		5.0		ug/L			05/04/18 01:54	1
Chlorobenzene	ND		2.0		ug/L			05/04/18 01:54	1
Chloroethane	ND		5.0		ug/L			05/04/18 01:54	1
Chloroform	ND		2.0		ug/L			05/04/18 01:54	1
Chloromethane	ND		5.0		ug/L			05/04/18 01:54	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/04/18 01:54	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/04/18 01:54	1
Dibromochloromethane	ND		2.0		ug/L			05/04/18 01:54	1
Dibromomethane	ND		2.0		ug/L			05/04/18 01:54	1
Dichlorodifluoromethane	ND		5.0		ug/L			05/04/18 01:54	1
Ethylbenzene	ND		2.0		ug/L			05/04/18 01:54	1
Hexachlorobutadiene	ND		5.0		ug/L			05/04/18 01:54	1
Isopropylbenzene	ND		2.0		ug/L			05/04/18 01:54	1
m,p-Xylene	ND		2.0		ug/L			05/04/18 01:54	1
Methylene Chloride	ND		5.0		ug/L			05/04/18 01:54	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/04/18 01:54	1
Naphthalene	ND		5.0		ug/L			05/04/18 01:54	1
n-Butylbenzene	ND		5.0		ug/L			05/04/18 01:54	1
N-Propylbenzene	ND		2.0		ug/L			05/04/18 01:54	1
o-Xylene	ND		2.0		ug/L			05/04/18 01:54	1
sec-Butylbenzene	ND		5.0		ug/L			05/04/18 01:54	1
Styrene	ND		2.0		ug/L			05/04/18 01:54	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			05/04/18 01:54	1
tert-Butylbenzene	ND		5.0		ug/L			05/04/18 01:54	1
Tetrachloroethene	ND		2.0		ug/L			05/04/18 01:54	1
Toluene	ND		2.0		ug/L			05/04/18 01:54	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/04/18 01:54	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/04/18 01:54	1
Trichloroethene	ND		2.0		ug/L			05/04/18 01:54	1
Trichlorofluoromethane	ND		5.0		ug/L			05/04/18 01:54	1
Vinyl chloride	ND		5.0		ug/L			05/04/18 01:54	1
Xylenes, Total	ND		2.0		ug/L			05/04/18 01:54	1
Isopropyl Ether (DIPE)	ND		5.0		ug/L			05/04/18 01:54	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			05/04/18 01:54	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			05/04/18 01:54	1
p-Isopropyltoluene	ND		2.0		ug/L			05/04/18 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*80 - 128*		*05/04/18 01:54*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/04/18 01:54*	*1*
Dibromofluoromethane (Surr)	*97*		*76 - 132*		*05/04/18 01:54*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
1,3-Dichlorobenzene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1

Client Sample ID: PZ-7
Date Collected: 04/28/18 13:30
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-28
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
2,4,5-Trichlorophenol	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
2,4,6-Trichlorophenol	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
2,4-Dichlorophenol	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
2,4-Dimethylphenol	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
2,4-Dinitrophenol	ND		43		ug/L		05/03/18 08:44	05/05/18 21:10	1
2,4-Dinitrotoluene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
2,6-Dinitrotoluene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
2-Chloronaphthalene	**15**		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
2-Chlorophenol	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
2-Methylnaphthalene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
2-Methylphenol	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
2-Nitroaniline	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
2-Nitrophenol	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
3,3'-Dichlorobenzidine	ND	*	43		ug/L		05/03/18 08:44	05/05/18 21:10	1
3-Nitroaniline	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
4,6-Dinitro-2-methylphenol	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
4-Bromophenyl phenyl ether	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
4-Chloro-3-methylphenol	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
4-Chloroaniline	ND	*	11		ug/L		05/03/18 08:44	05/05/18 21:10	1
4-Chlorophenyl phenyl ether	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
3-Methylphenol + 4-Methylphenol	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
4-Nitroaniline	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
4-Nitrophenol	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
Acenaphthene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Acenaphthylene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Aniline	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Anthracene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Benzidine	ND		43		ug/L		05/03/18 08:44	05/05/18 21:10	1
Benzo[a]anthracene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Benzo[a]pyrene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Benzo[b]fluoranthene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Benzo[g,h,i]perylene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Benzo[k]fluoranthene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Benzoic acid	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
Benzyl alcohol	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
Bis(2-chloroethoxy)methane	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Bis(2-chloroethyl)ether	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Bis(2-ethylhexyl) phthalate	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
Butyl benzyl phthalate	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
Chrysene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Dibenz(a,h)anthracene	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
Dibenzofuran	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Diethyl phthalate	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Dimethyl phthalate	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Di-n-butyl phthalate	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
Di-n-octyl phthalate	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
Fluoranthene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Fluorene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1

Client Sample ID: PZ-7
Date Collected: 04/28/18 13:30
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-28
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Hexachlorobutadiene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Hexachlorocyclopentadiene	ND	*	22		ug/L		05/03/18 08:44	05/05/18 21:10	1
Hexachloroethane	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Indeno[1,2,3-cd]pyrene	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
Isophorone	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Naphthalene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Nitrobenzene	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1
N-Nitrosodi-n-propylamine	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
N-Nitrosodiphenylamine	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Phenanthrene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Phenol	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
Pyrene	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
bis (2-chloroisopropyl) ether	ND		11		ug/L		05/03/18 08:44	05/05/18 21:10	1
N-Nitrosodimethylamine	ND		22		ug/L		05/03/18 08:44	05/05/18 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*50 - 120*	*05/03/18 08:44*	*05/05/18 21:10*	*1*
2-Fluorophenol (Surr)	*71*		*30 - 120*	*05/03/18 08:44*	*05/05/18 21:10*	*1*
2,4,6-Tribromophenol (Surr)	*107*		*40 - 120*	*05/03/18 08:44*	*05/05/18 21:10*	*1*
Nitrobenzene-d5 (Surr)	*81*		*45 - 120*	*05/03/18 08:44*	*05/05/18 21:10*	*1*
Terphenyl-d14 (Surr)	*83*		*10 - 150*	*05/03/18 08:44*	*05/05/18 21:10*	*1*
Phenol-d6 (Surr)	*76*		*35 - 120*	*05/03/18 08:44*	*05/05/18 21:10*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	**1000**		110		ug/L		05/03/18 08:44	05/07/18 18:31	5

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-1-13'
Date Collected: 04/26/18 10:26
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.03 g	10 mL	473913	05/03/18 12:35	AYL	TAL IRV
Total/NA	Prep	3546			20.19 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		50			474088	05/03/18 20:38	L1B	TAL IRV

Client Sample ID: DP-2-14'
Date Collected: 04/26/18 11:41
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.04 g	10 mL	473913	05/03/18 13:02	AYL	TAL IRV
Total/NA	Prep	3546			20.15 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	474076	05/04/18 01:55	HN	TAL IRV

Client Sample ID: DP-3-7'
Date Collected: 04/26/18 12:15
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.01 g	10 mL	473913	05/03/18 14:23	AYL	TAL IRV
Total/NA	Prep	3546			20.48 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	474076	05/04/18 02:19	HN	TAL IRV

Client Sample ID: DP-4-6'
Date Collected: 04/26/18 13:14
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.07 g	10 mL	473913	05/03/18 14:50	AYL	TAL IRV
Total/NA	Prep	3546			20.02 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		50			474088	05/03/18 21:01	L1B	TAL IRV

Client Sample ID: DP-5-11'
Date Collected: 04/26/18 14:36
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	2.62 g	10 mL	473913	05/03/18 15:17	AYL	TAL IRV
Total/NA	Prep	3546			20.15 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		10			474088	05/03/18 21:46	L1B	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-6-12'
Date Collected: 04/26/18 15:15
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	2.68 g	10 mL	473913	05/03/18 15:44	AYL	TAL IRV
Total/NA	Prep	3546			20.00 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		10			474088	05/03/18 22:08	L1B	TAL IRV

Client Sample ID: DP-7-10'
Date Collected: 04/26/18 16:05
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.01 g	10 mL	474135	05/04/18 11:31	AYL	TAL IRV
Total/NA	Prep	3546			20.27 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		25			474088	05/03/18 22:31	L1B	TAL IRV

Client Sample ID: DP-8-14'
Date Collected: 04/26/18 17:00
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.03 g	10 mL	474135	05/04/18 11:58	AYL	TAL IRV
Total/NA	Prep	3546			20.41 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	474076	05/04/18 02:43	HN	TAL IRV

Client Sample ID: DP-9-12'
Date Collected: 04/27/18 09:15
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.05 g	10 mL	474135	05/04/18 10:37	AYL	TAL IRV
Total/NA	Prep	3546			20.18 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		5			474088	05/03/18 22:53	L1B	TAL IRV

Client Sample ID: DP-10-20'
Date Collected: 04/27/18 10:35
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	473913	05/03/18 18:00	AYL	TAL IRV
Total/NA	Prep	3546			20.22 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	474076	05/04/18 03:08	HN	TAL IRV

Client Sample ID: DP-11-5'
Date Collected: 04/27/18 11:28
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-11
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	5030B			10.03 g	10 mL	474151	05/04/18 07:35	AYL	TAL IRV
Total/NA	Analysis	8260B		2000	10 mL	10 mL	474382	05/05/18 15:39	AA	TAL IRV
Total/NA	Prep	3546			20.36 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		25			474088	05/03/18 23:16	L1B	TAL IRV

Client Sample ID: DP-12-4'
Date Collected: 04/27/18 12:35
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	474135	05/04/18 12:25	AYL	TAL IRV
Total/NA	Prep	3546			20.41 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	474076	05/04/18 03:32	HN	TAL IRV

Client Sample ID: DP-13-10'
Date Collected: 04/27/18 13:12
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	474135	05/04/18 12:52	AYL	TAL IRV
Total/NA	Prep	3546			20.12 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	474076	05/04/18 03:56	HN	TAL IRV

Client Sample ID: DP-14-6'
Date Collected: 04/27/18 14:05
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-14
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	5030B			9.98 g	10 mL	474151	05/04/18 07:35	AYL	TAL IRV
Total/NA	Analysis	8260B		1000	10 mL	10 mL	474382	05/05/18 16:06	AA	TAL IRV
Total/NA	Prep	3546			20.22 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		25			474088	05/03/18 23:38	L1B	TAL IRV

Client Sample ID: DP-15-7'
Date Collected: 04/27/18 14:50
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-15
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	5030B			10.07 g	10 mL	474151	05/04/18 07:35	AYL	TAL IRV
Total/NA	Analysis	8260B		100	10 mL	10 mL	474382	05/05/18 16:39	AA	TAL IRV
Total/NA	Prep	5030B	DL		10.07 g	10 mL	474151	05/04/18 07:35	AYL	TAL IRV
Total/NA	Analysis	8260B	DL	2000	10 mL	10 mL	474490	05/07/18 10:59	AYL	TAL IRV
Total/NA	Prep	3546			20.02 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: DP-15-7'
Date Collected: 04/27/18 14:50
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	474076	05/04/18 04:20	HN	TAL IRV

Client Sample ID: DP-16-8'
Date Collected: 04/27/18 15:34
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	1.03 g	10 mL	474135	05/04/18 13:19	AYL	TAL IRV
Total/NA	Prep	3546			20.09 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	474076	05/04/18 04:44	HN	TAL IRV

Client Sample ID: DP-17-8'
Date Collected: 04/27/18 16:36
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 g	10 mL	474135	05/04/18 09:16	AYL	TAL IRV
Total/NA	Prep	3546			20.05 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	474076	05/04/18 05:08	HN	TAL IRV

Client Sample ID: DP-18-4'
Date Collected: 04/28/18 09:47
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.06 g	10 mL	473913	05/03/18 11:41	AYL	TAL IRV
Total/NA	Prep	3546			20.23 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1			474088	05/03/18 21:23	L1B	TAL IRV

Client Sample ID: DP-19-5'
Date Collected: 04/28/18 10:21
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	473909	05/03/18 09:49	AYL	TAL IRV
Total/NA	Prep	3546			20.47 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1	1 mL	1.0 mL	474076	05/04/18 05:32	HN	TAL IRV

Client Sample ID: DP-20-4'

Date Collected: 04/28/18 11:09
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.07 g	10 mL	473913	05/03/18 09:53	AYL	TAL IRV
Total/NA	Prep	3546			20.26 g	1 mL	473865	05/02/18 21:27	VA	TAL IRV
Total/NA	Analysis	8270C		1			474088	05/03/18 20:15	L1B	TAL IRV

Client Sample ID: PZ-1

Date Collected: 04/28/18 12:25
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-21

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	8260B		1	10 mL	10 mL	474090	05/03/18 21:51	RM	TAL IRV
Total/NA	Prep	3520C			470 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C		10			474427	05/06/18 02:24	L1B	TAL IRV
Total/NA	Prep	3520C	DL		470 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C	DL	200			474601	05/07/18 15:41	DF	TAL IRV

Client Sample ID: PZ-2

Date Collected: 04/28/18 12:36
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-22

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	8260B		1	10 mL	10 mL	474090	05/03/18 23:12	RM	TAL IRV
Total/NA	Prep	3520C			585 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C		1			474427	05/05/18 20:22	L1B	TAL IRV
Total/NA	Prep	3520C	DL		585 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C	DL	50			474601	05/07/18 16:05	DF	TAL IRV

Client Sample ID: PZ-3

Date Collected: 04/28/18 12:40
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-23

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	8260B		1	10 mL	10 mL	474090	05/03/18 23:39	RM	TAL IRV
Total/NA	Prep	3520C			885 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C		1			474601	05/07/18 16:29	DF	TAL IRV

Client Sample ID: PZ-5

Date Collected: 04/28/18 12:51
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-24

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	8260B		1	10 mL	10 mL	474090	05/04/18 00:06	RM	TAL IRV
Total/NA	Prep	3520C			825 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV

Client Sample ID: PZ-5

Date Collected: 04/28/18 12:51
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-24
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	8270C		1			474601	05/07/18 16:53	DF	TAL IRV

Client Sample ID: PZ-4

Date Collected: 04/28/18 12:59
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-25
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	8260B		1	10 mL	10 mL	474090	05/04/18 00:33	RM	TAL IRV
Total/NA	Prep	3520C			760 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C		1			474427	05/05/18 21:58	L1B	TAL IRV
Total/NA	Prep	3520C	DL		760 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C	DL	5			474601	05/07/18 17:18	DF	TAL IRV

Client Sample ID: PZ-6

Date Collected: 04/28/18 13:11
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-26
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	8260B		1	10 mL	10 mL	474090	05/04/18 01:00	RM	TAL IRV
Total/NA	Prep	3520C			825 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C		1			474427	05/05/18 22:23	L1B	TAL IRV
Total/NA	Prep	3520C	DL		825 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C	DL	10			474601	05/07/18 17:42	DF	TAL IRV

Client Sample ID: PZ-8

Date Collected: 04/28/18 13:21
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-27
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	8260B		1	10 mL	10 mL	474090	05/04/18 01:27	RM	TAL IRV
Total/NA	Analysis	8260B	DL	10	10 mL	10 mL	474138	05/04/18 15:52	RM	TAL IRV
Total/NA	Prep	3520C			695 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C		2.5			474427	05/06/18 02:48	L1B	TAL IRV
Total/NA	Prep	3520C	DL		695 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C	DL	50			474601	05/07/18 18:06	DF	TAL IRV

Client Sample ID: PZ-7

Date Collected: 04/28/18 13:30
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-28
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	8260B		1	10 mL	10 mL	474090	05/04/18 01:54	RM	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire Site Characterization

TestAmerica Job ID: 440-210294-1

Client Sample ID: PZ-7

Date Collected: 04/28/18 13:30
Date Received: 05/02/18 09:30

Lab Sample ID: 440-210294-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			920 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C		1			474427	05/05/18 21:10	L1B	TAL IRV
Total/NA	Prep	3520C	DL		920 mL	2.0 mL	473943	05/03/18 08:44	AP	TAL IRV
Total/NA	Analysis	8270C	DL	5			474601	05/07/18 18:31	DF	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-473909/4
Matrix: Solid
Analysis Batch: 473909

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/03/18 08:23	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/03/18 08:23	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/03/18 08:23	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/03/18 08:23	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/03/18 08:23	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/03/18 08:23	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/03/18 08:23	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 08:23	1
1,2,3-Trichloropropane	ND		10		ug/Kg			05/03/18 08:23	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 08:23	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 08:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			05/03/18 08:23	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/03/18 08:23	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 08:23	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/03/18 08:23	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 08:23	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 08:23	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 08:23	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/03/18 08:23	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 08:23	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 08:23	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 08:23	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 08:23	1
Benzene	ND		2.0		ug/Kg			05/03/18 08:23	1
Bromobenzene	ND		5.0		ug/Kg			05/03/18 08:23	1
Bromochloromethane	ND		5.0		ug/Kg			05/03/18 08:23	1
Bromodichloromethane	ND		2.0		ug/Kg			05/03/18 08:23	1
Bromoform	ND		5.0		ug/Kg			05/03/18 08:23	1
Bromomethane	ND		5.0		ug/Kg			05/03/18 08:23	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/03/18 08:23	1
Chlorobenzene	ND		2.0		ug/Kg			05/03/18 08:23	1
Chloroethane	ND		5.0		ug/Kg			05/03/18 08:23	1
Chloroform	ND		2.0		ug/Kg			05/03/18 08:23	1
Chloromethane	ND		5.0		ug/Kg			05/03/18 08:23	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 08:23	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 08:23	1
Dibromochloromethane	ND		2.0		ug/Kg			05/03/18 08:23	1
Dibromomethane	ND		2.0		ug/Kg			05/03/18 08:23	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			05/03/18 08:23	1
Ethylbenzene	ND		2.0		ug/Kg			05/03/18 08:23	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/03/18 08:23	1
Isopropylbenzene	ND		2.0		ug/Kg			05/03/18 08:23	1
m,p-Xylene	ND		4.0		ug/Kg			05/03/18 08:23	1
Methylene Chloride	ND		20		ug/Kg			05/03/18 08:23	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			05/03/18 08:23	1
Naphthalene	ND		5.0		ug/Kg			05/03/18 08:23	1
n-Butylbenzene	ND		5.0		ug/Kg			05/03/18 08:23	1
N-Propylbenzene	ND		2.0		ug/Kg			05/03/18 08:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-473909/4
Matrix: Solid
Analysis Batch: 473909

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0		ug/Kg			05/03/18 08:23	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/03/18 08:23	1
Styrene	ND		2.0		ug/Kg			05/03/18 08:23	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/Kg			05/03/18 08:23	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/03/18 08:23	1
Tetrachloroethene	ND		2.0		ug/Kg			05/03/18 08:23	1
Toluene	ND		2.0		ug/Kg			05/03/18 08:23	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 08:23	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 08:23	1
Trichloroethene	ND		2.0		ug/Kg			05/03/18 08:23	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/03/18 08:23	1
Vinyl chloride	ND		5.0		ug/Kg			05/03/18 08:23	1
Xylenes, Total	ND		4.0		ug/Kg			05/03/18 08:23	1
Isopropyl Ether (DIPE)	ND		5.0		ug/Kg			05/03/18 08:23	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			05/03/18 08:23	1
tert-Butyl alcohol (TBA)	ND		100		ug/Kg			05/03/18 08:23	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/03/18 08:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*79 - 123*		*05/03/18 08:23*	*1*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*		*05/03/18 08:23*	*1*
Dibromofluoromethane (Surr)	*90*		*60 - 120*		*05/03/18 08:23*	*1*

Lab Sample ID: LCS 440-473909/5
Matrix: Solid
Analysis Batch: 473909

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	53.2		ug/Kg		106	70 - 130
1,1,1-Trichloroethane	50.0	46.9		ug/Kg		94	65 - 135
1,1,2,2-Tetrachloroethane	50.0	53.1		ug/Kg		106	55 - 140
1,1,2-Trichloroethane	50.0	52.3		ug/Kg		105	65 - 135
1,1-Dichloroethane	50.0	49.6		ug/Kg		99	70 - 130
1,1-Dichloroethene	50.0	45.8		ug/Kg		92	70 - 125
1,1-Dichloropropene	50.0	48.8		ug/Kg		98	70 - 130
1,2,3-Trichlorobenzene	50.0	50.9		ug/Kg		102	60 - 130
1,2,3-Trichloropropane	50.0	51.3		ug/Kg		103	60 - 135
1,2,4-Trichlorobenzene	50.0	50.5		ug/Kg		101	70 - 135
1,2,4-Trimethylbenzene	50.0	50.6		ug/Kg		101	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/Kg		101	50 - 135
1,2-Dibromoethane (EDB)	50.0	50.8		ug/Kg		102	70 - 130
1,2-Dichlorobenzene	50.0	49.6		ug/Kg		99	75 - 120
1,2-Dichloroethane	50.0	50.4		ug/Kg		101	60 - 140
1,2-Dichloropropane	50.0	50.4		ug/Kg		101	70 - 130
1,3,5-Trimethylbenzene	50.0	50.6		ug/Kg		101	70 - 125
1,3-Dichlorobenzene	50.0	48.0		ug/Kg		96	75 - 125
1,3-Dichloropropane	50.0	51.5		ug/Kg		103	70 - 125
1,4-Dichlorobenzene	50.0	48.4		ug/Kg		97	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-473909/5
Matrix: Solid
Analysis Batch: 473909

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	51.1		ug/Kg		102	60 - 145
2-Chlorotoluene	50.0	52.0		ug/Kg		104	70 - 125
4-Chlorotoluene	50.0	53.8		ug/Kg		108	75 - 125
Benzene	50.0	49.0		ug/Kg		98	65 - 120
Bromobenzene	50.0	49.6		ug/Kg		99	75 - 120
Bromochloromethane	50.0	47.7		ug/Kg		95	70 - 135
Bromodichloromethane	50.0	48.1		ug/Kg		96	70 - 135
Bromoform	50.0	49.2		ug/Kg		98	55 - 135
Bromomethane	50.0	42.7		ug/Kg		85	60 - 145
Carbon tetrachloride	50.0	44.4		ug/Kg		89	65 - 140
Chlorobenzene	50.0	49.8		ug/Kg		100	75 - 120
Chloroethane	50.0	45.1		ug/Kg		90	60 - 140
Chloroform	50.0	46.9		ug/Kg		94	70 - 130
Chloromethane	50.0	36.7		ug/Kg		73	45 - 145
cis-1,2-Dichloroethene	50.0	47.2		ug/Kg		94	70 - 125
cis-1,3-Dichloropropene	50.0	53.2		ug/Kg		106	75 - 125
Dibromochloromethane	50.0	50.3		ug/Kg		101	65 - 140
Dibromomethane	50.0	46.9		ug/Kg		94	70 - 130
Dichlorodifluoromethane	50.0	39.9		ug/Kg		80	35 - 160
Ethylbenzene	50.0	53.3		ug/Kg		107	70 - 125
Hexachlorobutadiene	50.0	49.8		ug/Kg		100	60 - 135
Isopropylbenzene	50.0	50.8		ug/Kg		102	75 - 130
m,p-Xylene	50.0	49.5		ug/Kg		99	70 - 125
Methylene Chloride	50.0	46.0		ug/Kg		92	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	48.0		ug/Kg		96	60 - 140
Naphthalene	50.0	49.8		ug/Kg		100	55 - 135
n-Butylbenzene	50.0	52.3		ug/Kg		105	70 - 130
N-Propylbenzene	50.0	53.7		ug/Kg		107	70 - 130
o-Xylene	50.0	51.6		ug/Kg		103	70 - 125
sec-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 125
Styrene	50.0	52.1		ug/Kg		104	75 - 130
Tert-amyl-methyl ether (TAME)	50.0	47.5		ug/Kg		95	60 - 145
tert-Butylbenzene	50.0	49.2		ug/Kg		98	70 - 125
Tetrachloroethene	50.0	47.7		ug/Kg		95	70 - 125
Toluene	50.0	55.8		ug/Kg		112	70 - 125
trans-1,2-Dichloroethene	50.0	50.6		ug/Kg		101	70 - 125
trans-1,3-Dichloropropene	50.0	53.6		ug/Kg		107	70 - 135
Trichloroethene	50.0	47.0		ug/Kg		94	70 - 125
Trichlorofluoromethane	50.0	40.8		ug/Kg		82	60 - 145
Vinyl chloride	50.0	37.6		ug/Kg		75	55 - 135
Isopropyl Ether (DIPE)	50.0	52.9		ug/Kg		106	60 - 140
Ethyl-t-butyl ether (ETBE)	50.0	52.3		ug/Kg		105	60 - 140
tert-Butyl alcohol (TBA)	500	513		ug/Kg		103	70 - 135
p-Isopropyltoluene	50.0	49.9		ug/Kg		100	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*79 - 123*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-473909/5
Matrix: Solid
Analysis Batch: 473909

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	93		60 - 120

Lab Sample ID: 440-210294-19 MS
Matrix: Solid
Analysis Batch: 473909

Client Sample ID: DP-19-5'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.8	47.9		ug/Kg		96	65 - 145
1,1,1-Trichloroethane	ND		49.8	47.6		ug/Kg		96	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.8	49.7		ug/Kg		100	40 - 160
1,1,2-Trichloroethane	ND		49.8	49.9		ug/Kg		100	65 - 140
1,1-Dichloroethane	ND		49.8	49.0		ug/Kg		98	65 - 135
1,1-Dichloroethene	ND		49.8	45.4		ug/Kg		91	65 - 135
1,1-Dichloropropene	ND		49.8	47.3		ug/Kg		95	65 - 135
1,2,3-Trichlorobenzene	ND		49.8	49.9		ug/Kg		100	45 - 145
1,2,3-Trichloropropane	ND		49.8	50.5		ug/Kg		101	50 - 150
1,2,4-Trichlorobenzene	ND		49.8	48.5		ug/Kg		97	50 - 140
1,2,4-Trimethylbenzene	ND		49.8	48.4		ug/Kg		97	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.8	51.1		ug/Kg		103	40 - 150
1,2-Dibromoethane (EDB)	ND		49.8	47.8		ug/Kg		96	65 - 140
1,2-Dichlorobenzene	ND		49.8	48.1		ug/Kg		97	70 - 130
1,2-Dichloroethane	ND		49.8	52.8		ug/Kg		106	60 - 150
1,2-Dichloropropane	ND		49.8	49.5		ug/Kg		99	65 - 130
1,3,5-Trimethylbenzene	ND		49.8	49.0		ug/Kg		98	65 - 135
1,3-Dichlorobenzene	ND		49.8	47.9		ug/Kg		96	70 - 130
1,3-Dichloropropane	ND		49.8	48.8		ug/Kg		98	65 - 140
1,4-Dichlorobenzene	ND		49.8	47.9		ug/Kg		96	70 - 130
2,2-Dichloropropane	ND		49.8	51.7		ug/Kg		104	65 - 150
2-Chlorotoluene	ND		49.8	49.6		ug/Kg		100	60 - 135
4-Chlorotoluene	ND		49.8	51.0		ug/Kg		102	65 - 135
Benzene	ND		49.8	47.6		ug/Kg		95	65 - 130
Bromobenzene	ND		49.8	48.9		ug/Kg		98	65 - 140
Bromochloromethane	ND		49.8	48.4		ug/Kg		97	65 - 145
Bromodichloromethane	ND		49.8	48.9		ug/Kg		98	65 - 145
Bromoform	ND		49.8	46.9		ug/Kg		94	50 - 145
Bromomethane	ND		49.8	41.1		ug/Kg		83	60 - 155
Carbon tetrachloride	ND		49.8	44.5		ug/Kg		89	60 - 145
Chlorobenzene	ND		49.8	45.5		ug/Kg		91	70 - 130
Chloroethane	ND		49.8	43.7		ug/Kg		88	60 - 150
Chloroform	ND		49.8	48.0		ug/Kg		96	65 - 135
Chloromethane	ND		49.8	34.3		ug/Kg		69	40 - 145
cis-1,2-Dichloroethene	ND		49.8	47.1		ug/Kg		95	65 - 135
cis-1,3-Dichloropropene	ND		49.8	50.1		ug/Kg		101	70 - 135
Dibromochloromethane	ND		49.8	48.6		ug/Kg		98	60 - 145
Dibromomethane	ND		49.8	46.3		ug/Kg		93	65 - 140
Dichlorodifluoromethane	ND		49.8	37.8		ug/Kg		76	30 - 160
Ethylbenzene	ND		49.8	49.4		ug/Kg		99	70 - 135
Hexachlorobutadiene	ND		49.8	47.3		ug/Kg		95	50 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210294-19 MS
Matrix: Solid
Analysis Batch: 473909

Client Sample ID: DP-19-5'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	ND		49.8	47.1		ug/Kg		94	70 - 145
m,p-Xylene	ND		49.8	46.1		ug/Kg		93	70 - 130
Methylene Chloride	ND		49.8	42.5		ug/Kg		85	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.8	48.6		ug/Kg		98	55 - 155
Naphthalene	ND		49.8	49.7		ug/Kg		100	40 - 150
n-Butylbenzene	ND		49.8	50.2		ug/Kg		101	55 - 145
N-Propylbenzene	ND		49.8	52.6		ug/Kg		106	65 - 140
o-Xylene	ND		49.8	47.7		ug/Kg		96	65 - 130
sec-Butylbenzene	ND		49.8	47.6		ug/Kg		96	60 - 135
Styrene	ND		49.8	47.9		ug/Kg		96	70 - 140
Tert-amyl-methyl ether (TAME)	ND		49.8	47.8		ug/Kg		96	60 - 150
tert-Butylbenzene	ND		49.8	47.4		ug/Kg		95	60 - 140
Tetrachloroethene	ND		49.8	45.8		ug/Kg		92	65 - 135
Toluene	ND		49.8	49.9		ug/Kg		100	70 - 130
trans-1,2-Dichloroethene	ND		49.8	47.8		ug/Kg		96	70 - 135
trans-1,3-Dichloropropene	ND		49.8	50.7		ug/Kg		102	60 - 145
Trichloroethene	ND		49.8	49.4		ug/Kg		99	65 - 140
Trichlorofluoromethane	ND		49.8	39.0		ug/Kg		78	55 - 155
Vinyl chloride	ND		49.8	36.6		ug/Kg		74	55 - 140
Isopropyl Ether (DIPE)	ND		49.8	51.8		ug/Kg		104	60 - 150
Ethyl-t-butyl ether (ETBE)	ND		49.8	53.1		ug/Kg		107	60 - 145
tert-Butyl alcohol (TBA)	ND		498	520		ug/Kg		104	65 - 145
p-Isopropyltoluene	ND		49.8	47.4		ug/Kg		95	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*79 - 123*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Dibromofluoromethane (Surr)	*91*		*60 - 120*

Lab Sample ID: 440-210294-19 MSD
Matrix: Solid
Analysis Batch: 473909

Client Sample ID: DP-19-5'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		49.7	50.1		ug/Kg		101	65 - 145	4	20
1,1,1-Trichloroethane	ND		49.7	46.7		ug/Kg		94	65 - 145	2	20
1,1,2,2-Tetrachloroethane	ND		49.7	49.1		ug/Kg		99	40 - 160	1	30
1,1,2-Trichloroethane	ND		49.7	51.3		ug/Kg		103	65 - 140	3	30
1,1-Dichloroethane	ND		49.7	49.8		ug/Kg		100	65 - 135	2	25
1,1-Dichloroethene	ND		49.7	44.5		ug/Kg		89	65 - 135	2	25
1,1-Dichloropropene	ND		49.7	49.5		ug/Kg		100	65 - 135	5	20
1,2,3-Trichlorobenzene	ND		49.7	48.8		ug/Kg		98	45 - 145	2	30
1,2,3-Trichloropropane	ND		49.7	43.9		ug/Kg		88	50 - 150	14	30
1,2,4-Trichlorobenzene	ND		49.7	49.5		ug/Kg		100	50 - 140	2	30
1,2,4-Trimethylbenzene	ND		49.7	47.1		ug/Kg		95	65 - 140	3	25
1,2-Dibromo-3-Chloropropane	ND		49.7	48.3		ug/Kg		97	40 - 150	6	30
1,2-Dibromoethane (EDB)	ND		49.7	49.1		ug/Kg		99	65 - 140	3	25
1,2-Dichlorobenzene	ND		49.7	47.2		ug/Kg		95	70 - 130	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210294-19 MSD
Matrix: Solid
Analysis Batch: 473909

Client Sample ID: DP-19-5'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	ND		49.7	51.4		ug/Kg		103	60 - 150	3	25
1,2-Dichloropropane	ND		49.7	46.7		ug/Kg		94	65 - 130	6	20
1,3,5-Trimethylbenzene	ND		49.7	47.6		ug/Kg		96	65 - 135	3	25
1,3-Dichlorobenzene	ND		49.7	46.9		ug/Kg		94	70 - 130	2	25
1,3-Dichloropropane	ND		49.7	48.1		ug/Kg		97	65 - 140	2	25
1,4-Dichlorobenzene	ND		49.7	46.0		ug/Kg		92	70 - 130	4	25
2,2-Dichloropropane	ND		49.7	52.4		ug/Kg		105	65 - 150	1	25
2-Chlorotoluene	ND		49.7	49.0		ug/Kg		99	60 - 135	1	25
4-Chlorotoluene	ND		49.7	51.0		ug/Kg		103	65 - 135	0	25
Benzene	ND		49.7	47.8		ug/Kg		96	65 - 130	1	20
Bromobenzene	ND		49.7	46.3		ug/Kg		93	65 - 140	6	25
Bromochloromethane	ND		49.7	48.7		ug/Kg		98	65 - 145	0	25
Bromodichloromethane	ND		49.7	48.0		ug/Kg		97	65 - 145	2	20
Bromoform	ND		49.7	47.5		ug/Kg		96	50 - 145	1	30
Bromomethane	ND		49.7	41.3		ug/Kg		83	60 - 155	1	25
Carbon tetrachloride	ND		49.7	45.7		ug/Kg		92	60 - 145	3	25
Chlorobenzene	ND		49.7	47.4		ug/Kg		95	70 - 130	4	25
Chloroethane	ND		49.7	42.0		ug/Kg		85	60 - 150	4	25
Chloroform	ND		49.7	46.8		ug/Kg		94	65 - 135	3	20
Chloromethane	ND		49.7	34.2		ug/Kg		69	40 - 145	0	25
cis-1,2-Dichloroethene	ND		49.7	48.3		ug/Kg		97	65 - 135	2	25
cis-1,3-Dichloropropene	ND		49.7	50.7		ug/Kg		102	70 - 135	1	25
Dibromochloromethane	ND		49.7	47.6		ug/Kg		96	60 - 145	2	25
Dibromomethane	ND		49.7	45.0		ug/Kg		90	65 - 140	3	25
Dichlorodifluoromethane	ND		49.7	39.4		ug/Kg		79	30 - 160	4	35
Ethylbenzene	ND		49.7	50.5		ug/Kg		102	70 - 135	2	25
Hexachlorobutadiene	ND		49.7	49.2		ug/Kg		99	50 - 145	4	35
Isopropylbenzene	ND		49.7	48.7		ug/Kg		98	70 - 145	3	25
m,p-Xylene	ND		49.7	48.2		ug/Kg		97	70 - 130	4	25
Methylene Chloride	ND		49.7	43.5		ug/Kg		88	55 - 145	2	25
Methyl-t-Butyl Ether (MTBE)	ND		49.7	48.3		ug/Kg		97	55 - 155	1	35
Naphthalene	ND		49.7	47.6		ug/Kg		96	40 - 150	4	40
n-Butylbenzene	ND		49.7	48.7		ug/Kg		98	55 - 145	3	30
N-Propylbenzene	ND		49.7	50.7		ug/Kg		102	65 - 140	4	25
o-Xylene	ND		49.7	49.4		ug/Kg		99	65 - 130	3	25
sec-Butylbenzene	ND		49.7	46.0		ug/Kg		93	60 - 135	3	25
Styrene	ND		49.7	49.5		ug/Kg		100	70 - 140	3	25
Tert-amyl-methyl ether (TAME)	ND		49.7	46.1		ug/Kg		93	60 - 150	4	25
tert-Butylbenzene	ND		49.7	45.1		ug/Kg		91	60 - 140	5	25
Tetrachloroethene	ND		49.7	48.2		ug/Kg		97	65 - 135	5	25
Toluene	ND		49.7	52.0		ug/Kg		105	70 - 130	4	20
trans-1,2-Dichloroethene	ND		49.7	48.6		ug/Kg		98	70 - 135	2	25
trans-1,3-Dichloropropene	ND		49.7	51.8		ug/Kg		104	60 - 145	2	25
Trichloroethene	ND		49.7	47.6		ug/Kg		96	65 - 140	4	25
Trichlorofluoromethane	ND		49.7	40.6		ug/Kg		82	55 - 155	4	25
Vinyl chloride	ND		49.7	37.1		ug/Kg		75	55 - 140	1	30
Isopropyl Ether (DIPE)	ND		49.7	49.9		ug/Kg		100	60 - 150	4	25
Ethyl-t-butyl ether (ETBE)	ND		49.7	51.9		ug/Kg		104	60 - 145	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210294-19 MSD
Matrix: Solid
Analysis Batch: 473909

Client Sample ID: DP-19-5'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butyl alcohol (TBA)	ND		497	514		ug/Kg		103	65 - 145	1	30
p-Isopropyltoluene	ND		49.7	46.8		ug/Kg		94	60 - 140	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*79 - 123*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Dibromofluoromethane (Surr)	*96*		*60 - 120*

Lab Sample ID: MB 440-473913/5
Matrix: Solid
Analysis Batch: 473913

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/03/18 08:54	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/03/18 08:54	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/03/18 08:54	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/03/18 08:54	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/03/18 08:54	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/03/18 08:54	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/03/18 08:54	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 08:54	1
1,2,3-Trichloropropane	ND		10		ug/Kg			05/03/18 08:54	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/03/18 08:54	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 08:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			05/03/18 08:54	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/03/18 08:54	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 08:54	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/03/18 08:54	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 08:54	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/03/18 08:54	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 08:54	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/03/18 08:54	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/03/18 08:54	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/03/18 08:54	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 08:54	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/03/18 08:54	1
Benzene	ND		2.0		ug/Kg			05/03/18 08:54	1
Bromobenzene	ND		5.0		ug/Kg			05/03/18 08:54	1
Bromochloromethane	ND		5.0		ug/Kg			05/03/18 08:54	1
Bromodichloromethane	ND		2.0		ug/Kg			05/03/18 08:54	1
Bromoform	ND		5.0		ug/Kg			05/03/18 08:54	1
Bromomethane	ND		5.0		ug/Kg			05/03/18 08:54	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/03/18 08:54	1
Chlorobenzene	ND		2.0		ug/Kg			05/03/18 08:54	1
Chloroethane	ND		5.0		ug/Kg			05/03/18 08:54	1
Chloroform	ND		2.0		ug/Kg			05/03/18 08:54	1
Chloromethane	ND		5.0		ug/Kg			05/03/18 08:54	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 08:54	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-473913/5
Matrix: Solid
Analysis Batch: 473913

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 08:54	1
Dibromochloromethane	ND		2.0		ug/Kg			05/03/18 08:54	1
Dibromomethane	ND		2.0		ug/Kg			05/03/18 08:54	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			05/03/18 08:54	1
Ethylbenzene	ND		2.0		ug/Kg			05/03/18 08:54	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/03/18 08:54	1
Isopropylbenzene	ND		2.0		ug/Kg			05/03/18 08:54	1
m,p-Xylene	ND		4.0		ug/Kg			05/03/18 08:54	1
Methylene Chloride	ND		20		ug/Kg			05/03/18 08:54	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			05/03/18 08:54	1
Naphthalene	ND		5.0		ug/Kg			05/03/18 08:54	1
n-Butylbenzene	ND		5.0		ug/Kg			05/03/18 08:54	1
N-Propylbenzene	ND		2.0		ug/Kg			05/03/18 08:54	1
o-Xylene	ND		2.0		ug/Kg			05/03/18 08:54	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/03/18 08:54	1
Styrene	ND		2.0		ug/Kg			05/03/18 08:54	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/Kg			05/03/18 08:54	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/03/18 08:54	1
Tetrachloroethene	ND		2.0		ug/Kg			05/03/18 08:54	1
Toluene	ND		2.0		ug/Kg			05/03/18 08:54	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/03/18 08:54	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/03/18 08:54	1
Trichloroethene	ND		2.0		ug/Kg			05/03/18 08:54	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/03/18 08:54	1
Vinyl chloride	ND		5.0		ug/Kg			05/03/18 08:54	1
Xylenes, Total	ND		4.0		ug/Kg			05/03/18 08:54	1
Isopropyl Ether (DIPE)	ND		5.0		ug/Kg			05/03/18 08:54	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			05/03/18 08:54	1
tert-Butyl alcohol (TBA)	ND		100		ug/Kg			05/03/18 08:54	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/03/18 08:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*79 - 123*		*05/03/18 08:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*05/03/18 08:54*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 120*		*05/03/18 08:54*	*1*

Lab Sample ID: LCS 440-473913/6
Matrix: Solid
Analysis Batch: 473913

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.7		ug/Kg		105	70 - 130
1,1,1-Trichloroethane	50.0	51.3		ug/Kg		103	65 - 135
1,1,2,2-Tetrachloroethane	50.0	56.2		ug/Kg		112	55 - 140
1,1,2-Trichloroethane	50.0	53.5		ug/Kg		107	65 - 135
1,1-Dichloroethane	50.0	50.9		ug/Kg		102	70 - 130
1,1-Dichloroethene	50.0	48.5		ug/Kg		97	70 - 125
1,1-Dichloropropene	50.0	53.0		ug/Kg		106	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-473913/6
Matrix: Solid
Analysis Batch: 473913

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	50.0	50.4		ug/Kg		101	60 - 130
1,2,3-Trichloropropane	50.0	51.7		ug/Kg		103	60 - 135
1,2,4-Trichlorobenzene	50.0	49.2		ug/Kg		98	70 - 135
1,2,4-Trimethylbenzene	50.0	52.4		ug/Kg		105	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	58.9		ug/Kg		118	50 - 135
1,2-Dibromoethane (EDB)	50.0	56.7		ug/Kg		113	70 - 130
1,2-Dichlorobenzene	50.0	50.3		ug/Kg		101	75 - 120
1,2-Dichloroethane	50.0	55.8		ug/Kg		112	60 - 140
1,2-Dichloropropane	50.0	51.7		ug/Kg		103	70 - 130
1,3,5-Trimethylbenzene	50.0	51.9		ug/Kg		104	70 - 125
1,3-Dichlorobenzene	50.0	50.6		ug/Kg		101	75 - 125
1,3-Dichloropropane	50.0	53.4		ug/Kg		107	70 - 125
1,4-Dichlorobenzene	50.0	48.4		ug/Kg		97	75 - 120
2,2-Dichloropropane	50.0	51.1		ug/Kg		102	60 - 145
2-Chlorotoluene	50.0	50.1		ug/Kg		100	70 - 125
4-Chlorotoluene	50.0	50.9		ug/Kg		102	75 - 125
Benzene	50.0	49.5		ug/Kg		99	65 - 120
Bromobenzene	50.0	47.7		ug/Kg		95	75 - 120
Bromochloromethane	50.0	53.0		ug/Kg		106	70 - 135
Bromodichloromethane	50.0	52.6		ug/Kg		105	70 - 135
Bromoform	50.0	51.1		ug/Kg		102	55 - 135
Bromomethane	50.0	46.2		ug/Kg		92	60 - 145
Carbon tetrachloride	50.0	50.5		ug/Kg		101	65 - 140
Chlorobenzene	50.0	50.7		ug/Kg		101	75 - 120
Chloroethane	50.0	47.5		ug/Kg		95	60 - 140
Chloroform	50.0	51.0		ug/Kg		102	70 - 130
Chloromethane	50.0	42.8		ug/Kg		86	45 - 145
cis-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	70 - 125
cis-1,3-Dichloropropene	50.0	54.7		ug/Kg		109	75 - 125
Dibromochloromethane	50.0	55.8		ug/Kg		112	65 - 140
Dibromomethane	50.0	49.3		ug/Kg		99	70 - 130
Dichlorodifluoromethane	50.0	42.2		ug/Kg		84	35 - 160
Ethylbenzene	50.0	53.7		ug/Kg		107	70 - 125
Hexachlorobutadiene	50.0	45.0		ug/Kg		90	60 - 135
Isopropylbenzene	50.0	56.0		ug/Kg		112	75 - 130
m,p-Xylene	50.0	52.1		ug/Kg		104	70 - 125
Methylene Chloride	50.0	46.8		ug/Kg		94	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	54.7		ug/Kg		109	60 - 140
Naphthalene	50.0	56.3		ug/Kg		113	55 - 135
n-Butylbenzene	50.0	55.1		ug/Kg		110	70 - 130
N-Propylbenzene	50.0	52.6		ug/Kg		105	70 - 130
o-Xylene	50.0	55.3		ug/Kg		111	70 - 125
sec-Butylbenzene	50.0	52.7		ug/Kg		105	70 - 125
Styrene	50.0	52.2		ug/Kg		104	75 - 130
Tert-amyl-methyl ether (TAME)	50.0	57.9		ug/Kg		116	60 - 145
tert-Butylbenzene	50.0	50.0		ug/Kg		100	70 - 125
Tetrachloroethene	50.0	49.0		ug/Kg		98	70 - 125
Toluene	50.0	53.3		ug/Kg		107	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-473913/6
Matrix: Solid
Analysis Batch: 473913

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	52.6		ug/Kg		105	70 - 125
trans-1,3-Dichloropropene	50.0	53.0		ug/Kg		106	70 - 135
Trichloroethene	50.0	47.7		ug/Kg		95	70 - 125
Trichlorofluoromethane	50.0	43.1		ug/Kg		86	60 - 145
Vinyl chloride	50.0	47.0		ug/Kg		94	55 - 135
Isopropyl Ether (DIPE)	50.0	62.5		ug/Kg		125	60 - 140
Ethyl-t-butyl ether (ETBE)	50.0	60.0		ug/Kg		120	60 - 140
tert-Butyl alcohol (TBA)	500	533		ug/Kg		107	70 - 135
p-Isopropyltoluene	50.0	52.7		ug/Kg		105	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*79 - 123*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*
Dibromofluoromethane (Surr)	*99*		*60 - 120*

Lab Sample ID: 440-210093-A-1 MS
Matrix: Solid
Analysis Batch: 473913

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
1,1,1,2-Tetrachloroethane	ND		49.5	60.5		ug/Kg		122	65 - 145
1,1,1-Trichloroethane	ND		49.5	53.5		ug/Kg		108	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.5	70.4		ug/Kg		142	40 - 160
1,1,2-Trichloroethane	ND		49.5	60.4		ug/Kg		122	65 - 140
1,1-Dichloroethane	ND		49.5	53.1		ug/Kg		107	65 - 135
1,1-Dichloroethene	ND		49.5	46.2		ug/Kg		93	65 - 135
1,1-Dichloropropene	ND		49.5	52.7		ug/Kg		106	65 - 135
1,2,3-Trichlorobenzene	ND		49.5	41.9		ug/Kg		85	45 - 145
1,2,3-Trichloropropane	ND		49.5	66.1		ug/Kg		134	50 - 150
1,2,4-Trichlorobenzene	ND		49.5	43.1		ug/Kg		87	50 - 140
1,2,4-Trimethylbenzene	ND		49.5	59.6		ug/Kg		120	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.5	67.7		ug/Kg		137	40 - 150
1,2-Dibromoethane (EDB)	ND		49.5	61.3		ug/Kg		124	65 - 140
1,2-Dichlorobenzene	ND		49.5	56.1		ug/Kg		113	70 - 130
1,2-Dichloroethane	ND		49.5	59.1		ug/Kg		119	60 - 150
1,2-Dichloropropane	ND		49.5	54.7		ug/Kg		111	65 - 130
1,3,5-Trimethylbenzene	ND		49.5	60.1		ug/Kg		121	65 - 135
1,3-Dichlorobenzene	ND		49.5	55.5		ug/Kg		112	70 - 130
1,3-Dichloropropane	ND		49.5	59.5		ug/Kg		120	65 - 140
1,4-Dichlorobenzene	ND		49.5	52.3		ug/Kg		106	70 - 130
2,2-Dichloropropane	ND		49.5	56.9		ug/Kg		115	65 - 150
2-Chlorotoluene	ND		49.5	58.0		ug/Kg		117	60 - 135
4-Chlorotoluene	ND		49.5	59.9		ug/Kg		121	65 - 135
Benzene	ND		49.5	51.1		ug/Kg		103	65 - 130
Bromobenzene	ND		49.5	59.7		ug/Kg		121	65 - 140
Bromochloromethane	ND		49.5	55.3		ug/Kg		112	65 - 145
Bromodichloromethane	ND		49.5	55.1		ug/Kg		111	65 - 145
Bromoform	ND		49.5	55.5		ug/Kg		112	50 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210093-A-1 MS
Matrix: Solid
Analysis Batch: 473913

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
Bromomethane	ND		49.5	46.9		ug/Kg		95	60 - 155
Carbon tetrachloride	ND		49.5	51.0		ug/Kg		103	60 - 145
Chlorobenzene	ND		49.5	53.3		ug/Kg		108	70 - 130
Chloroethane	ND		49.5	48.9		ug/Kg		99	60 - 150
Chloroform	ND		49.5	53.9		ug/Kg		109	65 - 135
Chloromethane	ND		49.5	41.5		ug/Kg		84	40 - 145
cis-1,2-Dichloroethene	ND		49.5	55.5		ug/Kg		112	65 - 135
cis-1,3-Dichloropropene	ND		49.5	61.5		ug/Kg		124	70 - 135
Dibromochloromethane	ND		49.5	62.0		ug/Kg		125	60 - 145
Dibromomethane	ND		49.5	51.1		ug/Kg		103	65 - 140
Dichlorodifluoromethane	ND		49.5	40.4		ug/Kg		82	30 - 160
Ethylbenzene	ND		49.5	55.4		ug/Kg		112	70 - 135
Hexachlorobutadiene	ND		49.5	29.0		ug/Kg		59	50 - 145
Isopropylbenzene	ND		49.5	54.2		ug/Kg		109	70 - 145
m,p-Xylene	ND		49.5	53.0		ug/Kg		107	70 - 130
Methylene Chloride	ND		49.5	49.1		ug/Kg		99	55 - 145
Methyl-t-Butyl Ether (MTBE)			49.5	58.6		ug/Kg			
Naphthalene	ND		49.5	58.0		ug/Kg		117	40 - 150
n-Butylbenzene	ND		49.5	49.2		ug/Kg		99	55 - 145
N-Propylbenzene	ND		49.5	59.4		ug/Kg		120	65 - 140
o-Xylene	ND		49.5	57.3		ug/Kg		116	65 - 130
sec-Butylbenzene	ND		49.5	52.8		ug/Kg		107	60 - 135
Styrene	ND		49.5	55.3		ug/Kg		112	70 - 140
Tert-amyl-methyl ether (TAME)			49.5	64.4		ug/Kg			
tert-Butylbenzene	ND		49.5	55.3		ug/Kg		112	60 - 140
Tetrachloroethene	ND		49.5	48.2		ug/Kg		97	65 - 135
Toluene	ND		49.5	56.8		ug/Kg		115	70 - 130
trans-1,2-Dichloroethene	ND		49.5	54.3		ug/Kg		110	70 - 135
trans-1,3-Dichloropropene	ND		49.5	60.3		ug/Kg		122	60 - 145
Trichloroethene	ND		49.5	48.4		ug/Kg		98	65 - 140
Trichlorofluoromethane	ND		49.5	42.4		ug/Kg		86	55 - 155
Vinyl chloride	ND		49.5	43.7		ug/Kg		88	55 - 140
Isopropyl Ether (DIPE)			49.5	64.0		ug/Kg			
Ethyl-t-butyl ether (ETBE)			49.5	67.8		ug/Kg			
tert-Butyl alcohol (TBA)			495	591		ug/Kg			
p-Isopropyltoluene	ND		49.5	52.7		ug/Kg		107	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*79 - 123*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*
Dibromofluoromethane (Surr)	*102*		*60 - 120*

Lab Sample ID: 440-210093-A-1 MSD
Matrix: Solid
Analysis Batch: 473913

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
1,1,1,2-Tetrachloroethane	ND		49.6	56.6		ug/Kg		114	65 - 145	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210093-A-1 MSD
Matrix: Solid
Analysis Batch: 473913

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
1,1,1-Trichloroethane	ND		49.6	51.2		ug/Kg		103	65 - 145	4	20
1,1,2,2-Tetrachloroethane	ND		49.6	68.8		ug/Kg		139	40 - 160	2	30
1,1,2-Trichloroethane	ND		49.6	57.8		ug/Kg		117	65 - 140	4	30
1,1-Dichloroethane	ND		49.6	51.5		ug/Kg		104	65 - 135	3	25
1,1-Dichloroethene	ND		49.6	45.6		ug/Kg		92	65 - 135	1	25
1,1-Dichloropropene	ND		49.6	49.5		ug/Kg		100	65 - 135	6	20
1,2,3-Trichlorobenzene	ND		49.6	38.7		ug/Kg		78	45 - 145	8	30
1,2,3-Trichloropropane	ND		49.6	62.8		ug/Kg		127	50 - 150	5	30
1,2,4-Trichlorobenzene	ND		49.6	39.4		ug/Kg		79	50 - 140	9	30
1,2,4-Trimethylbenzene	ND		49.6	54.9		ug/Kg		111	65 - 140	8	25
1,2-Dibromo-3-Chloropropane	ND		49.6	65.7		ug/Kg		132	40 - 150	3	30
1,2-Dibromoethane (EDB)	ND		49.6	58.3		ug/Kg		117	65 - 140	5	25
1,2-Dichlorobenzene	ND		49.6	52.5		ug/Kg		106	70 - 130	7	25
1,2-Dichloroethane	ND		49.6	57.6		ug/Kg		116	60 - 150	3	25
1,2-Dichloropropane	ND		49.6	52.8		ug/Kg		106	65 - 130	4	20
1,3,5-Trimethylbenzene	ND		49.6	55.0		ug/Kg		111	65 - 135	9	25
1,3-Dichlorobenzene	ND		49.6	50.3		ug/Kg		101	70 - 130	10	25
1,3-Dichloropropane	ND		49.6	57.4		ug/Kg		116	65 - 140	4	25
1,4-Dichlorobenzene	ND		49.6	49.1		ug/Kg		99	70 - 130	6	25
2,2-Dichloropropane	ND		49.6	54.0		ug/Kg		109	65 - 150	5	25
2-Chlorotoluene	ND		49.6	53.0		ug/Kg		107	60 - 135	9	25
4-Chlorotoluene	ND		49.6	55.0		ug/Kg		111	65 - 135	9	25
Benzene	ND		49.6	49.4		ug/Kg		100	65 - 130	3	20
Bromobenzene	ND		49.6	54.8		ug/Kg		110	65 - 140	9	25
Bromochloromethane	ND		49.6	53.5		ug/Kg		108	65 - 145	3	25
Bromodichloromethane	ND		49.6	52.9		ug/Kg		107	65 - 145	4	20
Bromoform	ND		49.6	53.8		ug/Kg		108	50 - 145	3	30
Bromomethane	ND		49.6	43.9		ug/Kg		88	60 - 155	7	25
Carbon tetrachloride	ND		49.6	48.4		ug/Kg		98	60 - 145	5	25
Chlorobenzene	ND		49.6	50.0		ug/Kg		101	70 - 130	6	25
Chloroethane	ND		49.6	44.8		ug/Kg		90	60 - 150	9	25
Chloroform	ND		49.6	51.8		ug/Kg		104	65 - 135	4	20
Chloromethane	ND		49.6	38.1		ug/Kg		77	40 - 145	9	25
cis-1,2-Dichloroethene	ND		49.6	52.5		ug/Kg		106	65 - 135	6	25
cis-1,3-Dichloropropene	ND		49.6	57.9		ug/Kg		117	70 - 135	6	25
Dibromochloromethane	ND		49.6	58.7		ug/Kg		118	60 - 145	6	25
Dibromomethane	ND		49.6	50.3		ug/Kg		101	65 - 140	2	25
Dichlorodifluoromethane	ND		49.6	37.5		ug/Kg		76	30 - 160	8	35
Ethylbenzene	ND		49.6	51.6		ug/Kg		104	70 - 135	7	25
Hexachlorobutadiene	ND		49.6	25.8		ug/Kg		52	50 - 145	12	35
Isopropylbenzene	ND		49.6	50.0		ug/Kg		101	70 - 145	8	25
m,p-Xylene	ND		49.6	48.9		ug/Kg		99	70 - 130	8	25
Methylene Chloride	ND		49.6	48.0		ug/Kg		97	55 - 145	2	25
Methyl-t-Butyl Ether (MTBE)			49.6	59.1		ug/Kg					
Naphthalene	ND		49.6	56.2		ug/Kg		113	40 - 150	3	40
n-Butylbenzene	ND		49.6	43.8		ug/Kg		88	55 - 145	11	30
N-Propylbenzene	ND		49.6	54.7		ug/Kg		110	65 - 140	8	25
o-Xylene	ND		49.6	53.1		ug/Kg		107	65 - 130	8	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210093-A-1 MSD
Matrix: Solid
Analysis Batch: 473913

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
sec-Butylbenzene	ND		49.6	47.9		ug/Kg		97	60 - 135	10	25
Styrene	ND		49.6	51.4		ug/Kg		104	70 - 140	7	25
Tert-amyl-methyl ether (TAME)			49.6	62.5		ug/Kg					
tert-Butylbenzene	ND		49.6	51.0		ug/Kg		103	60 - 140	8	25
Tetrachloroethene	ND		49.6	44.5		ug/Kg		90	65 - 135	8	25
Toluene	ND		49.6	54.2		ug/Kg		109	70 - 130	5	20
trans-1,2-Dichloroethene	ND		49.6	52.3		ug/Kg		105	70 - 135	4	25
trans-1,3-Dichloropropene	ND		49.6	56.9		ug/Kg		115	60 - 145	6	25
Trichloroethene	ND		49.6	46.8		ug/Kg		94	65 - 140	3	25
Trichlorofluoromethane	ND		49.6	40.4		ug/Kg		81	55 - 155	5	25
Vinyl chloride	ND		49.6	40.4		ug/Kg		81	55 - 140	8	30
Isopropyl Ether (DIPE)			49.6	61.1		ug/Kg					
Ethyl-t-butyl ether (ETBE)			49.6	64.9		ug/Kg					
tert-Butyl alcohol (TBA)			496	564		ug/Kg					
p-Isopropyltoluene	ND		49.6	47.8		ug/Kg		96	60 - 140	10	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*79 - 123*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*
Dibromofluoromethane (Surr)	*101*		*60 - 120*

Lab Sample ID: MB 440-474090/4
Matrix: Water
Analysis Batch: 474090

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			05/03/18 20:57	1
1,1,1-Trichloroethane	ND		2.0		ug/L			05/03/18 20:57	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			05/03/18 20:57	1
1,1,2-Trichloroethane	ND		2.0		ug/L			05/03/18 20:57	1
1,1-Dichloroethane	ND		2.0		ug/L			05/03/18 20:57	1
1,1-Dichloroethene	ND		5.0		ug/L			05/03/18 20:57	1
1,1-Dichloropropene	ND		2.0		ug/L			05/03/18 20:57	1
1,2,3-Trichlorobenzene	ND		5.0		ug/L			05/03/18 20:57	1
1,2,3-Trichloropropane	ND		10		ug/L			05/03/18 20:57	1
1,2,4-Trichlorobenzene	ND		5.0		ug/L			05/03/18 20:57	1
1,2,4-Trimethylbenzene	ND		2.0		ug/L			05/03/18 20:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			05/03/18 20:57	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/L			05/03/18 20:57	1
1,2-Dichlorobenzene	ND		2.0		ug/L			05/03/18 20:57	1
1,2-Dichloroethane	ND		2.0		ug/L			05/03/18 20:57	1
1,2-Dichloropropane	ND		2.0		ug/L			05/03/18 20:57	1
1,3,5-Trimethylbenzene	ND		2.0		ug/L			05/03/18 20:57	1
1,3-Dichlorobenzene	ND		2.0		ug/L			05/03/18 20:57	1
1,3-Dichloropropane	ND		2.0		ug/L			05/03/18 20:57	1
1,4-Dichlorobenzene	ND		2.0		ug/L			05/03/18 20:57	1
2,2-Dichloropropane	ND		2.0		ug/L			05/03/18 20:57	1
2-Chlorotoluene	ND		5.0		ug/L			05/03/18 20:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-474090/4
Matrix: Water
Analysis Batch: 474090

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		5.0		ug/L			05/03/18 20:57	1
Benzene	ND		2.0		ug/L			05/03/18 20:57	1
Bromobenzene	ND		5.0		ug/L			05/03/18 20:57	1
Bromochloromethane	ND		5.0		ug/L			05/03/18 20:57	1
Bromodichloromethane	ND		2.0		ug/L			05/03/18 20:57	1
Bromoform	ND		5.0		ug/L			05/03/18 20:57	1
Bromomethane	ND		5.0		ug/L			05/03/18 20:57	1
Carbon tetrachloride	ND		5.0		ug/L			05/03/18 20:57	1
Chlorobenzene	ND		2.0		ug/L			05/03/18 20:57	1
Chloroethane	ND		5.0		ug/L			05/03/18 20:57	1
Chloroform	ND		2.0		ug/L			05/03/18 20:57	1
Chloromethane	ND		5.0		ug/L			05/03/18 20:57	1
cis-1,2-Dichloroethene	ND		2.0		ug/L			05/03/18 20:57	1
cis-1,3-Dichloropropene	ND		2.0		ug/L			05/03/18 20:57	1
Dibromochloromethane	ND		2.0		ug/L			05/03/18 20:57	1
Dibromomethane	ND		2.0		ug/L			05/03/18 20:57	1
Dichlorodifluoromethane	ND		5.0		ug/L			05/03/18 20:57	1
Ethylbenzene	ND		2.0		ug/L			05/03/18 20:57	1
Hexachlorobutadiene	ND		5.0		ug/L			05/03/18 20:57	1
Isopropylbenzene	ND		2.0		ug/L			05/03/18 20:57	1
m,p-Xylene	ND		2.0		ug/L			05/03/18 20:57	1
Methylene Chloride	ND		5.0		ug/L			05/03/18 20:57	1
Methyl-t-Butyl Ether (MTBE)	ND		1.0		ug/L			05/03/18 20:57	1
Naphthalene	ND		5.0		ug/L			05/03/18 20:57	1
n-Butylbenzene	ND		5.0		ug/L			05/03/18 20:57	1
N-Propylbenzene	ND		2.0		ug/L			05/03/18 20:57	1
o-Xylene	ND		2.0		ug/L			05/03/18 20:57	1
sec-Butylbenzene	ND		5.0		ug/L			05/03/18 20:57	1
Styrene	ND		2.0		ug/L			05/03/18 20:57	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/L			05/03/18 20:57	1
tert-Butylbenzene	ND		5.0		ug/L			05/03/18 20:57	1
Tetrachloroethene	ND		2.0		ug/L			05/03/18 20:57	1
Toluene	ND		2.0		ug/L			05/03/18 20:57	1
trans-1,2-Dichloroethene	ND		2.0		ug/L			05/03/18 20:57	1
trans-1,3-Dichloropropene	ND		2.0		ug/L			05/03/18 20:57	1
Trichloroethene	ND		2.0		ug/L			05/03/18 20:57	1
Trichlorofluoromethane	ND		5.0		ug/L			05/03/18 20:57	1
Vinyl chloride	ND		5.0		ug/L			05/03/18 20:57	1
Xylenes, Total	ND		2.0		ug/L			05/03/18 20:57	1
Isopropyl Ether (DIPE)	ND		5.0		ug/L			05/03/18 20:57	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/L			05/03/18 20:57	1
tert-Butyl alcohol (TBA)	ND		10		ug/L			05/03/18 20:57	1
p-Isopropyltoluene	ND		2.0		ug/L			05/03/18 20:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 128*		*05/03/18 20:57*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/03/18 20:57*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*05/03/18 20:57*	*1*

Lab Sample ID: LCS 440-474090/5
Matrix: Water
Analysis Batch: 474090

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.7		ug/L		107	60 - 141
1,1,1-Trichloroethane	25.0	26.9		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	25.0	28.7		ug/L		115	63 - 130
1,1,2-Trichloroethane	25.0	26.8		ug/L		107	70 - 130
1,1-Dichloroethane	25.0	26.0		ug/L		104	64 - 130
1,1-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloropropene	25.0	27.3		ug/L		109	70 - 130
1,2,3-Trichlorobenzene	25.0	26.1		ug/L		104	60 - 140
1,2,3-Trichloropropane	25.0	26.5		ug/L		106	63 - 130
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	60 - 140
1,2,4-Trimethylbenzene	25.0	27.6		ug/L		110	70 - 135
1,2-Dibromo-3-Chloropropane	25.0	28.8		ug/L		115	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.2		ug/L		109	70 - 130
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,2-Dichloroethane	25.0	27.8		ug/L		111	57 - 138
1,2-Dichloropropane	25.0	25.6		ug/L		102	67 - 130
1,3,5-Trimethylbenzene	25.0	27.8		ug/L		111	70 - 136
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	26.6		ug/L		106	70 - 130
1,4-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
2,2-Dichloropropane	25.0	25.7		ug/L		103	68 - 141
2-Chlorotoluene	25.0	26.8		ug/L		107	70 - 130
4-Chlorotoluene	25.0	27.4		ug/L		110	70 - 130
Benzene	25.0	25.1		ug/L		100	68 - 130
Bromobenzene	25.0	26.0		ug/L		104	70 - 130
Bromochloromethane	25.0	26.3		ug/L		105	70 - 130
Bromodichloromethane	25.0	26.1		ug/L		104	70 - 132
Bromoform	25.0	25.3		ug/L		101	60 - 148
Bromomethane	25.0	20.3		ug/L		81	64 - 139
Carbon tetrachloride	25.0	26.6		ug/L		107	60 - 150
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130
Chloroethane	25.0	21.5		ug/L		86	64 - 135
Chloroform	25.0	25.9		ug/L		104	70 - 130
Chloromethane	25.0	16.2		ug/L		65	47 - 140
cis-1,2-Dichloroethene	25.0	26.9		ug/L		108	70 - 133
cis-1,3-Dichloropropene	25.0	27.8		ug/L		111	70 - 133
Dibromochloromethane	25.0	27.7		ug/L		111	69 - 145
Dibromomethane	25.0	24.0		ug/L		96	70 - 130
Dichlorodifluoromethane	25.0	18.0		ug/L		72	29 - 150
Ethylbenzene	25.0	27.4		ug/L		110	70 - 130
Hexachlorobutadiene	25.0	24.2		ug/L		97	10 - 150
Isopropylbenzene	25.0	27.7		ug/L		111	70 - 136
m,p-Xylene	25.0	26.4		ug/L		106	70 - 130
Methylene Chloride	25.0	23.8		ug/L		95	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	28.0		ug/L		112	63 - 131
Naphthalene	25.0	28.2		ug/L		113	60 - 140
n-Butylbenzene	25.0	28.2		ug/L		113	65 - 150
N-Propylbenzene	25.0	28.3		ug/L		113	67 - 139
o-Xylene	25.0	27.0		ug/L		108	70 - 130
sec-Butylbenzene	25.0	27.7		ug/L		111	70 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-474090/5
Matrix: Water
Analysis Batch: 474090

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	25.0	26.1		ug/L		104	70 - 134
Tert-amyl-methyl ether (TAME)	25.0	29.5		ug/L		118	57 - 139
tert-Butylbenzene	25.0	26.9		ug/L		108	70 - 130
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130
Toluene	25.0	27.2		ug/L		109	70 - 130
trans-1,2-Dichloroethene	25.0	28.0		ug/L		112	70 - 130
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 132
Trichloroethene	25.0	25.0		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	22.8		ug/L		91	60 - 150
Vinyl chloride	25.0	18.1		ug/L		72	59 - 133
Isopropyl Ether (DIPE)	25.0	26.8		ug/L		107	58 - 139
Ethyl-t-butyl ether (ETBE)	25.0	30.0		ug/L		120	60 - 136
tert-Butyl alcohol (TBA)	250	259		ug/L		104	70 - 130
p-Isopropyltoluene	25.0	27.4		ug/L		110	70 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 128*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*76 - 132*

Lab Sample ID: 440-210294-21 MS
Matrix: Water
Analysis Batch: 474090

Client Sample ID: PZ-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		25.0	26.7		ug/L		107	60 - 149
1,1,1-Trichloroethane	ND		25.0	25.9		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	ND		25.0	28.7		ug/L		115	63 - 130
1,1,2-Trichloroethane	ND		25.0	27.1		ug/L		108	70 - 130
1,1-Dichloroethane	ND		25.0	25.3		ug/L		101	65 - 130
1,1-Dichloroethene	ND		25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	ND		25.0	26.6		ug/L		106	64 - 130
1,2,3-Trichlorobenzene	ND		25.0	24.3		ug/L		97	60 - 140
1,2,3-Trichloropropane	ND		25.0	27.8		ug/L		111	60 - 130
1,2,4-Trichlorobenzene	ND		25.0	24.0		ug/L		96	60 - 140
1,2,4-Trimethylbenzene	ND		25.0	26.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	ND		25.0	31.1		ug/L		125	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	28.1		ug/L		112	70 - 131
1,2-Dichlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130
1,2-Dichloroethane	ND		25.0	27.2		ug/L		109	56 - 146
1,2-Dichloropropane	ND		25.0	24.9		ug/L		100	69 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.0		ug/L		107	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.3		ug/L		101	70 - 130
1,3-Dichloropropane	ND		25.0	26.6		ug/L		106	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.1		ug/L		96	70 - 130
2,2-Dichloropropane	ND		25.0	27.8		ug/L		111	69 - 138
2-Chlorotoluene	ND		25.0	25.6		ug/L		102	70 - 130
4-Chlorotoluene	ND		25.0	26.6		ug/L		106	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210294-21 MS
Matrix: Water
Analysis Batch: 474090

Client Sample ID: PZ-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	24.4		ug/L		98	66 - 130
Bromobenzene	ND		25.0	24.5		ug/L		98	70 - 130
Bromochloromethane	ND		25.0	26.1		ug/L		104	70 - 130
Bromodichloromethane	ND		25.0	25.7		ug/L		103	70 - 138
Bromoform	ND		25.0	25.7		ug/L		103	59 - 150
Bromomethane	ND		25.0	20.0		ug/L		80	62 - 131
Carbon tetrachloride	ND		25.0	25.9		ug/L		103	60 - 150
Chlorobenzene	ND		25.0	25.5		ug/L		102	70 - 130
Chloroethane	ND		25.0	20.3		ug/L		81	68 - 130
Chloroform	ND		25.0	25.6		ug/L		102	70 - 130
Chloromethane	ND		25.0	16.2		ug/L		65	39 - 144
cis-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	70 - 130
cis-1,3-Dichloropropene	ND		25.0	27.7		ug/L		111	70 - 133
Dibromochloromethane	ND		25.0	27.7		ug/L		111	70 - 148
Dibromomethane	ND		25.0	23.9		ug/L		96	70 - 130
Dichlorodifluoromethane	ND		25.0	17.6		ug/L		70	25 - 142
Ethylbenzene	ND		25.0	27.2		ug/L		109	70 - 130
Hexachlorobutadiene	ND	F2	25.0	19.6		ug/L		79	10 - 150
Isopropylbenzene	ND		25.0	27.7		ug/L		111	70 - 132
m,p-Xylene	ND		25.0	26.1		ug/L		105	70 - 133
Methylene Chloride	ND		25.0	23.1		ug/L		93	52 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	28.2		ug/L		113	70 - 130
Naphthalene	ND		25.0	32.5		ug/L		120	60 - 140
n-Butylbenzene	ND		25.0	26.3		ug/L		105	61 - 149
N-Propylbenzene	ND		25.0	27.2		ug/L		109	66 - 135
o-Xylene	ND		25.0	26.7		ug/L		107	70 - 133
sec-Butylbenzene	ND		25.0	25.6		ug/L		103	67 - 134
Styrene	ND		25.0	26.3		ug/L		105	29 - 150
Tert-amyl-methyl ether (TAME)	ND		25.0	29.4		ug/L		118	68 - 133
tert-Butylbenzene	ND		25.0	25.3		ug/L		101	70 - 130
Tetrachloroethene	ND		25.0	24.9		ug/L		99	70 - 137
Toluene	ND		25.0	26.9		ug/L		108	70 - 130
trans-1,2-Dichloroethene	ND		25.0	27.7		ug/L		111	70 - 130
trans-1,3-Dichloropropene	ND		25.0	27.3		ug/L		109	70 - 138
Trichloroethene	ND		25.0	24.1		ug/L		96	70 - 130
Trichlorofluoromethane	ND		25.0	21.9		ug/L		88	60 - 150
Vinyl chloride	ND		25.0	17.6		ug/L		70	50 - 137
Isopropyl Ether (DIPE)	ND		25.0	27.0		ug/L		108	64 - 138
Ethyl-t-butyl ether (ETBE)	ND		25.0	30.5		ug/L		122	70 - 130
tert-Butyl alcohol (TBA)	ND		250	256		ug/L		102	70 - 130
p-Isopropyltoluene	ND		25.0	25.6		ug/L		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 128*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210294-21 MSD
Matrix: Water
Analysis Batch: 474090

Client Sample ID: PZ-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	25.0		ug/L		100	60 - 149	6	20
1,1,1-Trichloroethane	ND		25.0	26.0		ug/L		104	70 - 130	0	20
1,1,2,2-Tetrachloroethane	ND		25.0	28.6		ug/L		114	63 - 130	1	30
1,1,2-Trichloroethane	ND		25.0	24.9		ug/L		99	70 - 130	8	25
1,1-Dichloroethane	ND		25.0	24.8		ug/L		99	65 - 130	2	20
1,1-Dichloroethene	ND		25.0	24.2		ug/L		97	70 - 130	1	20
1,1-Dichloropropene	ND		25.0	26.8		ug/L		107	64 - 130	1	20
1,2,3-Trichlorobenzene	ND		25.0	22.4		ug/L		90	60 - 140	8	20
1,2,3-Trichloropropane	ND		25.0	27.0		ug/L		108	60 - 130	3	30
1,2,4-Trichlorobenzene	ND		25.0	22.4		ug/L		90	60 - 140	7	20
1,2,4-Trimethylbenzene	ND		25.0	26.6		ug/L		106	70 - 130	0	25
1,2-Dibromo-3-Chloropropane	ND		25.0	30.7		ug/L		123	48 - 140	1	30
1,2-Dibromoethane (EDB)	ND		25.0	25.5		ug/L		102	70 - 131	9	25
1,2-Dichlorobenzene	ND		25.0	25.9		ug/L		104	70 - 130	2	20
1,2-Dichloroethane	ND		25.0	26.1		ug/L		104	56 - 146	4	20
1,2-Dichloropropane	ND		25.0	24.5		ug/L		98	69 - 130	1	20
1,3,5-Trimethylbenzene	ND		25.0	26.6		ug/L		105	70 - 130	2	20
1,3-Dichlorobenzene	ND		25.0	25.5		ug/L		102	70 - 130	1	20
1,3-Dichloropropane	ND		25.0	25.0		ug/L		100	70 - 130	6	25
1,4-Dichlorobenzene	ND		25.0	24.6		ug/L		98	70 - 130	2	20
2,2-Dichloropropane	ND		25.0	27.5		ug/L		110	69 - 138	1	25
2-Chlorotoluene	ND		25.0	26.0		ug/L		104	70 - 130	2	20
4-Chlorotoluene	ND		25.0	27.2		ug/L		109	70 - 130	3	20
Benzene	ND		25.0	24.8		ug/L		99	66 - 130	2	20
Bromobenzene	ND		25.0	25.2		ug/L		101	70 - 130	3	20
Bromochloromethane	ND		25.0	26.3		ug/L		105	70 - 130	1	25
Bromodichloromethane	ND		25.0	25.5		ug/L		102	70 - 138	1	20
Bromoform	ND		25.0	23.8		ug/L		95	59 - 150	8	25
Bromomethane	ND		25.0	19.6		ug/L		78	62 - 131	2	25
Carbon tetrachloride	ND		25.0	25.5		ug/L		102	60 - 150	2	25
Chlorobenzene	ND		25.0	23.7		ug/L		95	70 - 130	7	20
Chloroethane	ND		25.0	20.2		ug/L		81	68 - 130	1	25
Chloroform	ND		25.0	25.3		ug/L		101	70 - 130	1	20
Chloromethane	ND		25.0	16.2		ug/L		65	39 - 144	0	25
cis-1,2-Dichloroethene	ND		25.0	26.3		ug/L		105	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	25.6		ug/L		103	70 - 133	8	20
Dibromochloromethane	ND		25.0	25.6		ug/L		102	70 - 148	8	25
Dibromomethane	ND		25.0	23.3		ug/L		93	70 - 130	3	25
Dichlorodifluoromethane	ND		25.0	17.3		ug/L		69	25 - 142	2	30
Ethylbenzene	ND		25.0	25.3		ug/L		101	70 - 130	7	20
Hexachlorobutadiene	ND	F2	25.0	13.0	F2	ug/L		52	10 - 150	41	20
Isopropylbenzene	ND		25.0	25.0		ug/L		100	70 - 132	10	20
m,p-Xylene	ND		25.0	24.1		ug/L		96	70 - 133	8	25
Methylene Chloride	ND		25.0	22.9		ug/L		92	52 - 130	1	20
Methyl-t-Butyl Ether (MTBE)	ND		25.0	27.5		ug/L		110	70 - 130	2	25
Naphthalene	ND		25.0	32.3		ug/L		119	60 - 140	1	30
n-Butylbenzene	ND		25.0	23.5		ug/L		94	61 - 149	11	20
N-Propylbenzene	ND		25.0	27.0		ug/L		108	66 - 135	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210294-21 MSD
Matrix: Water
Analysis Batch: 474090

Client Sample ID: PZ-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	ND		25.0	24.8		ug/L		99	70 - 133	7	20
sec-Butylbenzene	ND		25.0	23.9		ug/L		96	67 - 134	7	20
Styrene	ND		25.0	24.4		ug/L		98	29 - 150	8	35
Tert-amyl-methyl ether (TAME)	ND		25.0	29.0		ug/L		116	68 - 133	1	30
tert-Butylbenzene	ND		25.0	24.5		ug/L		98	70 - 130	3	20
Tetrachloroethene	ND		25.0	23.0		ug/L		92	70 - 137	8	20
Toluene	ND		25.0	25.0		ug/L		100	70 - 130	7	20
trans-1,2-Dichloroethene	ND		25.0	27.5		ug/L		110	70 - 130	1	20
trans-1,3-Dichloropropene	ND		25.0	25.6		ug/L		103	70 - 138	6	25
Trichloroethene	ND		25.0	24.3		ug/L		97	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	21.6		ug/L		86	60 - 150	1	25
Vinyl chloride	ND		25.0	17.2		ug/L		69	50 - 137	2	30
Isopropyl Ether (DIPE)	ND		25.0	26.6		ug/L		106	64 - 138	2	25
Ethyl-t-butyl ether (ETBE)	ND		25.0	29.7		ug/L		119	70 - 130	3	25
tert-Butyl alcohol (TBA)	ND		250	259		ug/L		103	70 - 130	1	25
p-Isopropyltoluene	ND		25.0	24.1		ug/L		96	70 - 130	6	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 128*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*76 - 132*

Lab Sample ID: MB 440-474135/4
Matrix: Solid
Analysis Batch: 474135

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/04/18 08:17	1
1,1,1-Trichloroethane	ND		2.0		ug/Kg			05/04/18 08:17	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/Kg			05/04/18 08:17	1
1,1,2-Trichloroethane	ND		2.0		ug/Kg			05/04/18 08:17	1
1,1-Dichloroethane	ND		2.0		ug/Kg			05/04/18 08:17	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/04/18 08:17	1
1,1-Dichloropropene	ND		2.0		ug/Kg			05/04/18 08:17	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/04/18 08:17	1
1,2,3-Trichloropropane	ND		10		ug/Kg			05/04/18 08:17	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/04/18 08:17	1
1,2,4-Trimethylbenzene	ND		2.0		ug/Kg			05/04/18 08:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/Kg			05/04/18 08:17	1
1,2-Dibromoethane (EDB)	ND		2.0		ug/Kg			05/04/18 08:17	1
1,2-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 08:17	1
1,2-Dichloroethane	ND		2.0		ug/Kg			05/04/18 08:17	1
1,2-Dichloropropane	ND		2.0		ug/Kg			05/04/18 08:17	1
1,3,5-Trimethylbenzene	ND		2.0		ug/Kg			05/04/18 08:17	1
1,3-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 08:17	1
1,3-Dichloropropane	ND		2.0		ug/Kg			05/04/18 08:17	1
1,4-Dichlorobenzene	ND		2.0		ug/Kg			05/04/18 08:17	1
2,2-Dichloropropane	ND		2.0		ug/Kg			05/04/18 08:17	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-474135/4
Matrix: Solid
Analysis Batch: 474135

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		5.0		ug/Kg			05/04/18 08:17	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/04/18 08:17	1
Benzene	ND		2.0		ug/Kg			05/04/18 08:17	1
Bromobenzene	ND		5.0		ug/Kg			05/04/18 08:17	1
Bromochloromethane	ND		5.0		ug/Kg			05/04/18 08:17	1
Bromodichloromethane	ND		2.0		ug/Kg			05/04/18 08:17	1
Bromoform	ND		5.0		ug/Kg			05/04/18 08:17	1
Bromomethane	ND		5.0		ug/Kg			05/04/18 08:17	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/04/18 08:17	1
Chlorobenzene	ND		2.0		ug/Kg			05/04/18 08:17	1
Chloroethane	ND		5.0		ug/Kg			05/04/18 08:17	1
Chloroform	ND		2.0		ug/Kg			05/04/18 08:17	1
Chloromethane	ND		5.0		ug/Kg			05/04/18 08:17	1
cis-1,2-Dichloroethene	ND		2.0		ug/Kg			05/04/18 08:17	1
cis-1,3-Dichloropropene	ND		2.0		ug/Kg			05/04/18 08:17	1
Dibromochloromethane	ND		2.0		ug/Kg			05/04/18 08:17	1
Dibromomethane	ND		2.0		ug/Kg			05/04/18 08:17	1
Dichlorodifluoromethane	ND		5.0		ug/Kg			05/04/18 08:17	1
Ethylbenzene	ND		2.0		ug/Kg			05/04/18 08:17	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/04/18 08:17	1
Isopropylbenzene	ND		2.0		ug/Kg			05/04/18 08:17	1
m,p-Xylene	ND		4.0		ug/Kg			05/04/18 08:17	1
Methylene Chloride	ND		20		ug/Kg			05/04/18 08:17	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0		ug/Kg			05/04/18 08:17	1
Naphthalene	ND		5.0		ug/Kg			05/04/18 08:17	1
n-Butylbenzene	ND		5.0		ug/Kg			05/04/18 08:17	1
N-Propylbenzene	ND		2.0		ug/Kg			05/04/18 08:17	1
o-Xylene	ND		2.0		ug/Kg			05/04/18 08:17	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/04/18 08:17	1
Styrene	ND		2.0		ug/Kg			05/04/18 08:17	1
Tert-amyl-methyl ether (TAME)	ND		5.0		ug/Kg			05/04/18 08:17	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/04/18 08:17	1
Tetrachloroethene	ND		2.0		ug/Kg			05/04/18 08:17	1
Toluene	ND		2.0		ug/Kg			05/04/18 08:17	1
trans-1,2-Dichloroethene	ND		2.0		ug/Kg			05/04/18 08:17	1
trans-1,3-Dichloropropene	ND		2.0		ug/Kg			05/04/18 08:17	1
Trichloroethene	ND		2.0		ug/Kg			05/04/18 08:17	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/04/18 08:17	1
Vinyl chloride	ND		5.0		ug/Kg			05/04/18 08:17	1
Xylenes, Total	ND		4.0		ug/Kg			05/04/18 08:17	1
Isopropyl Ether (DIPE)	ND		5.0		ug/Kg			05/04/18 08:17	1
Ethyl-t-butyl ether (ETBE)	ND		5.0		ug/Kg			05/04/18 08:17	1
tert-Butyl alcohol (TBA)	ND		100		ug/Kg			05/04/18 08:17	1
p-Isopropyltoluene	ND		2.0		ug/Kg			05/04/18 08:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*79 - 123*		*05/04/18 08:17*	*1*
4-Bromofluorobenzene (Surr)	*102*		*79 - 120*		*05/04/18 08:17*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-474135/4
Matrix: Solid
Analysis Batch: 474135

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		60 - 120		05/04/18 08:17	1

Lab Sample ID: LCS 440-474135/5
Matrix: Solid
Analysis Batch: 474135

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	70 - 130
1,1,1-Trichloroethane	50.0	51.8		ug/Kg		104	65 - 135
1,1,2,2-Tetrachloroethane	50.0	53.5		ug/Kg		107	55 - 140
1,1,2-Trichloroethane	50.0	48.3		ug/Kg		97	65 - 135
1,1-Dichloroethane	50.0	51.5		ug/Kg		103	70 - 130
1,1-Dichloroethene	50.0	47.9		ug/Kg		96	70 - 125
1,1-Dichloropropene	50.0	53.5		ug/Kg		107	70 - 130
1,2,3-Trichlorobenzene	50.0	51.1		ug/Kg		102	60 - 130
1,2,3-Trichloropropane	50.0	48.8		ug/Kg		98	60 - 135
1,2,4-Trichlorobenzene	50.0	51.5		ug/Kg		103	70 - 135
1,2,4-Trimethylbenzene	50.0	52.6		ug/Kg		105	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	49.3		ug/Kg		99	50 - 135
1,2-Dibromoethane (EDB)	50.0	49.4		ug/Kg		99	70 - 130
1,2-Dichlorobenzene	50.0	50.8		ug/Kg		102	75 - 120
1,2-Dichloroethane	50.0	55.5		ug/Kg		111	60 - 140
1,2-Dichloropropane	50.0	52.8		ug/Kg		106	70 - 130
1,3,5-Trimethylbenzene	50.0	52.7		ug/Kg		105	70 - 125
1,3-Dichlorobenzene	50.0	51.2		ug/Kg		102	75 - 125
1,3-Dichloropropane	50.0	47.9		ug/Kg		96	70 - 125
1,4-Dichlorobenzene	50.0	48.8		ug/Kg		98	75 - 120
2,2-Dichloropropane	50.0	53.1		ug/Kg		106	60 - 145
2-Chlorotoluene	50.0	50.8		ug/Kg		102	70 - 125
4-Chlorotoluene	50.0	53.0		ug/Kg		106	75 - 125
Benzene	50.0	50.5		ug/Kg		101	65 - 120
Bromobenzene	50.0	50.0		ug/Kg		100	75 - 120
Bromochloromethane	50.0	53.9		ug/Kg		108	70 - 135
Bromodichloromethane	50.0	54.2		ug/Kg		108	70 - 135
Bromoform	50.0	45.2		ug/Kg		90	55 - 135
Bromomethane	50.0	43.1		ug/Kg		86	60 - 145
Carbon tetrachloride	50.0	51.4		ug/Kg		103	65 - 140
Chlorobenzene	50.0	46.6		ug/Kg		93	75 - 120
Chloroethane	50.0	45.5		ug/Kg		91	60 - 140
Chloroform	50.0	52.4		ug/Kg		105	70 - 130
Chloromethane	50.0	37.2		ug/Kg		74	45 - 145
cis-1,2-Dichloroethene	50.0	54.2		ug/Kg		108	70 - 125
cis-1,3-Dichloropropene	50.0	50.2		ug/Kg		100	75 - 125
Dibromochloromethane	50.0	50.7		ug/Kg		101	65 - 140
Dibromomethane	50.0	49.0		ug/Kg		98	70 - 130
Dichlorodifluoromethane	50.0	36.9		ug/Kg		74	35 - 160
Ethylbenzene	50.0	49.3		ug/Kg		99	70 - 125
Hexachlorobutadiene	50.0	44.6		ug/Kg		89	60 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-474135/5
Matrix: Solid
Analysis Batch: 474135

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	50.0		ug/Kg		100	75 - 130
m,p-Xylene	50.0	47.6		ug/Kg		95	70 - 125
Methylene Chloride	50.0	47.7		ug/Kg		95	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	55.9		ug/Kg		112	60 - 140
Naphthalene	50.0	52.7		ug/Kg		105	55 - 135
n-Butylbenzene	50.0	53.9		ug/Kg		108	70 - 130
N-Propylbenzene	50.0	53.2		ug/Kg		106	70 - 130
o-Xylene	50.0	49.6		ug/Kg		99	70 - 125
sec-Butylbenzene	50.0	52.1		ug/Kg		104	70 - 125
Styrene	50.0	47.8		ug/Kg		96	75 - 130
Tert-amyl-methyl ether (TAME)	50.0	59.3		ug/Kg		119	60 - 145
tert-Butylbenzene	50.0	50.0		ug/Kg		100	70 - 125
Tetrachloroethene	50.0	44.7		ug/Kg		89	70 - 125
Toluene	50.0	48.7		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	70 - 125
trans-1,3-Dichloropropene	50.0	49.1		ug/Kg		98	70 - 135
Trichloroethene	50.0	48.8		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	43.5		ug/Kg		87	60 - 145
Vinyl chloride	50.0	39.8		ug/Kg		80	55 - 135
Isopropyl Ether (DIPE)	50.0	57.4		ug/Kg		115	60 - 140
Ethyl-t-butyl ether (ETBE)	50.0	61.8		ug/Kg		124	60 - 140
tert-Butyl alcohol (TBA)	500	524		ug/Kg		105	70 - 135
p-Isopropyltoluene	50.0	51.7		ug/Kg		103	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*79 - 123*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Dibromofluoromethane (Surr)	*102*		*60 - 120*

Lab Sample ID: 440-210294-17 MS
Matrix: Solid
Analysis Batch: 474135

Client Sample ID: DP-17-8'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.8	44.6		ug/Kg		89	65 - 145
1,1,1-Trichloroethane	ND		49.8	47.9		ug/Kg		96	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.8	46.9		ug/Kg		94	40 - 160
1,1,2-Trichloroethane	ND		49.8	45.3		ug/Kg		91	65 - 140
1,1-Dichloroethane	ND		49.8	47.1		ug/Kg		95	65 - 135
1,1-Dichloroethene	ND		49.8	44.4		ug/Kg		89	65 - 135
1,1-Dichloropropene	ND		49.8	48.4		ug/Kg		97	65 - 135
1,2,3-Trichlorobenzene	ND		49.8	46.1		ug/Kg		93	45 - 145
1,2,3-Trichloropropane	ND		49.8	43.3		ug/Kg		87	50 - 150
1,2,4-Trichlorobenzene	ND		49.8	46.0		ug/Kg		92	50 - 140
1,2,4-Trimethylbenzene	ND		49.8	47.3		ug/Kg		95	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.8	45.2		ug/Kg		91	40 - 150
1,2-Dibromoethane (EDB)	ND		49.8	46.3		ug/Kg		93	65 - 140
1,2-Dichlorobenzene	ND		49.8	45.8		ug/Kg		92	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210294-17 MS
Matrix: Solid
Analysis Batch: 474135

Client Sample ID: DP-17-8'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	ND		49.8	52.9		ug/Kg		106	60 - 150
1,2-Dichloropropane	ND		49.8	47.6		ug/Kg		96	65 - 130
1,3,5-Trimethylbenzene	ND		49.8	47.3		ug/Kg		95	65 - 135
1,3-Dichlorobenzene	ND		49.8	45.5		ug/Kg		91	70 - 130
1,3-Dichloropropane	ND		49.8	44.7		ug/Kg		90	65 - 140
1,4-Dichlorobenzene	ND		49.8	43.9		ug/Kg		88	70 - 130
2,2-Dichloropropane	ND		49.8	50.1		ug/Kg		101	65 - 150
2-Chlorotoluene	ND		49.8	45.0		ug/Kg		90	60 - 135
4-Chlorotoluene	ND		49.8	46.5		ug/Kg		93	65 - 135
Benzene	ND		49.8	45.5		ug/Kg		91	65 - 130
Bromobenzene	ND		49.8	44.0		ug/Kg		88	65 - 140
Bromochloromethane	ND		49.8	50.0		ug/Kg		100	65 - 145
Bromodichloromethane	ND		49.8	48.9		ug/Kg		98	65 - 145
Bromoform	ND		49.8	42.1		ug/Kg		85	50 - 145
Bromomethane	ND		49.8	39.4		ug/Kg		79	60 - 155
Carbon tetrachloride	ND		49.8	46.9		ug/Kg		94	60 - 145
Chlorobenzene	ND		49.8	43.2		ug/Kg		87	70 - 130
Chloroethane	ND		49.8	41.2		ug/Kg		83	60 - 150
Chloroform	ND		49.8	47.9		ug/Kg		96	65 - 135
Chloromethane	ND		49.8	33.8		ug/Kg		68	40 - 145
cis-1,2-Dichloroethene	ND		49.8	49.8		ug/Kg		100	65 - 135
cis-1,3-Dichloropropene	ND		49.8	46.7		ug/Kg		94	70 - 135
Dibromochloromethane	ND		49.8	46.7		ug/Kg		94	60 - 145
Dibromomethane	ND		49.8	45.7		ug/Kg		92	65 - 140
Dichlorodifluoromethane	ND		49.8	33.1		ug/Kg		67	30 - 160
Ethylbenzene	ND		49.8	45.7		ug/Kg		92	70 - 135
Hexachlorobutadiene	ND		49.8	39.9		ug/Kg		80	50 - 145
Isopropylbenzene	ND		49.8	46.6		ug/Kg		94	70 - 145
m,p-Xylene	ND		49.8	43.4		ug/Kg		87	70 - 130
Methylene Chloride	ND		49.8	42.7		ug/Kg		86	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.8	51.4		ug/Kg		103	55 - 155
Naphthalene	ND		49.8	49.2		ug/Kg		99	40 - 150
n-Butylbenzene	ND		49.8	48.1		ug/Kg		97	55 - 145
N-Propylbenzene	ND		49.8	47.6		ug/Kg		96	65 - 140
o-Xylene	ND		49.8	46.6		ug/Kg		94	65 - 130
sec-Butylbenzene	ND		49.8	46.4		ug/Kg		93	60 - 135
Styrene	ND		49.8	43.7		ug/Kg		88	70 - 140
Tert-amyl-methyl ether (TAME)	ND		49.8	54.5		ug/Kg		110	60 - 150
tert-Butylbenzene	ND		49.8	44.8		ug/Kg		90	60 - 140
Tetrachloroethene	ND		49.8	41.0		ug/Kg		82	65 - 135
Toluene	ND		49.8	44.6		ug/Kg		90	70 - 130
trans-1,2-Dichloroethene	ND		49.8	43.8		ug/Kg		88	70 - 135
trans-1,3-Dichloropropene	ND		49.8	45.8		ug/Kg		92	60 - 145
Trichloroethene	ND		49.8	47.1		ug/Kg		95	65 - 140
Trichlorofluoromethane	ND		49.8	39.4		ug/Kg		79	55 - 155
Vinyl chloride	ND		49.8	36.1		ug/Kg		72	55 - 140
Isopropyl Ether (DIPE)	ND		49.8	52.3		ug/Kg		105	60 - 150
Ethyl-t-butyl ether (ETBE)	ND		49.8	56.8		ug/Kg		114	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210294-17 MS
Matrix: Solid
Analysis Batch: 474135

Client Sample ID: DP-17-8'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butyl alcohol (TBA)	ND		498	469		ug/Kg		94	65 - 145
p-Isopropyltoluene	ND		49.8	46.8		ug/Kg		94	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*79 - 123*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*
Dibromofluoromethane (Surr)	*100*		*60 - 120*

Lab Sample ID: 440-210294-17 MSD
Matrix: Solid
Analysis Batch: 474135

Client Sample ID: DP-17-8'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		49.8	51.5		ug/Kg		103	65 - 145	14	20
1,1,1-Trichloroethane	ND		49.8	49.4		ug/Kg		99	65 - 145	3	20
1,1,2,2-Tetrachloroethane	ND		49.8	50.0		ug/Kg		100	40 - 160	6	30
1,1,2-Trichloroethane	ND		49.8	52.3		ug/Kg		105	65 - 140	14	30
1,1-Dichloroethane	ND		49.8	48.5		ug/Kg		97	65 - 135	3	25
1,1-Dichloroethene	ND		49.8	46.5		ug/Kg		93	65 - 135	5	25
1,1-Dichloropropene	ND		49.8	51.0		ug/Kg		102	65 - 135	5	20
1,2,3-Trichlorobenzene	ND		49.8	48.7		ug/Kg		98	45 - 145	6	30
1,2,3-Trichloropropane	ND		49.8	48.3		ug/Kg		97	50 - 150	11	30
1,2,4-Trichlorobenzene	ND		49.8	49.0		ug/Kg		98	50 - 140	6	30
1,2,4-Trimethylbenzene	ND		49.8	48.6		ug/Kg		98	65 - 140	3	25
1,2-Dibromo-3-Chloropropane	ND		49.8	52.1		ug/Kg		105	40 - 150	14	30
1,2-Dibromoethane (EDB)	ND		49.8	53.2		ug/Kg		107	65 - 140	14	25
1,2-Dichlorobenzene	ND		49.8	48.3		ug/Kg		97	70 - 130	5	25
1,2-Dichloroethane	ND		49.8	56.2		ug/Kg		113	60 - 150	6	25
1,2-Dichloropropane	ND		49.8	50.9		ug/Kg		102	65 - 130	7	20
1,3,5-Trimethylbenzene	ND		49.8	49.2		ug/Kg		99	65 - 135	4	25
1,3-Dichlorobenzene	ND		49.8	47.1		ug/Kg		95	70 - 130	4	25
1,3-Dichloropropane	ND		49.8	52.0		ug/Kg		104	65 - 140	15	25
1,4-Dichlorobenzene	ND		49.8	45.6		ug/Kg		92	70 - 130	4	25
2,2-Dichloropropane	ND		49.8	51.2		ug/Kg		103	65 - 150	2	25
2-Chlorotoluene	ND		49.8	46.8		ug/Kg		94	60 - 135	4	25
4-Chlorotoluene	ND		49.8	48.8		ug/Kg		98	65 - 135	5	25
Benzene	ND		49.8	47.8		ug/Kg		96	65 - 130	5	20
Bromobenzene	ND		49.8	46.0		ug/Kg		92	65 - 140	5	25
Bromochloromethane	ND		49.8	53.5		ug/Kg		108	65 - 145	7	25
Bromodichloromethane	ND		49.8	52.0		ug/Kg		104	65 - 145	6	20
Bromoform	ND		49.8	49.1		ug/Kg		99	50 - 145	15	30
Bromomethane	ND		49.8	40.8		ug/Kg		82	60 - 155	3	25
Carbon tetrachloride	ND		49.8	48.4		ug/Kg		97	60 - 145	3	25
Chlorobenzene	ND		49.8	48.5		ug/Kg		97	70 - 130	12	25
Chloroethane	ND		49.8	42.8		ug/Kg		86	60 - 150	4	25
Chloroform	ND		49.8	50.7		ug/Kg		102	65 - 135	6	20
Chloromethane	ND		49.8	33.7		ug/Kg		68	40 - 145	0	25
cis-1,2-Dichloroethene	ND		49.8	52.3		ug/Kg		105	65 - 135	5	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210294-17 MSD
Matrix: Solid
Analysis Batch: 474135

Client Sample ID: DP-17-8'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	ND		49.8	53.3		ug/Kg		107	70 - 135	13	25
Dibromochloromethane	ND		49.8	55.3		ug/Kg		111	60 - 145	17	25
Dibromomethane	ND		49.8	49.1		ug/Kg		99	65 - 140	7	25
Dichlorodifluoromethane	ND		49.8	34.4		ug/Kg		69	30 - 160	4	35
Ethylbenzene	ND		49.8	50.7		ug/Kg		102	70 - 135	10	25
Hexachlorobutadiene	ND		49.8	40.0		ug/Kg		80	50 - 145	0	35
Isopropylbenzene	ND		49.8	51.3		ug/Kg		103	70 - 145	9	25
m,p-Xylene	ND		49.8	48.7		ug/Kg		98	70 - 130	12	25
Methylene Chloride	ND		49.8	45.4		ug/Kg		91	55 - 145	6	25
Methyl-t-Butyl Ether (MTBE)	ND		49.8	56.4		ug/Kg		113	55 - 155	9	35
Naphthalene	ND		49.8	52.9		ug/Kg		106	40 - 150	7	40
n-Butylbenzene	ND		49.8	49.5		ug/Kg		99	55 - 145	3	30
N-Propylbenzene	ND		49.8	49.1		ug/Kg		99	65 - 140	3	25
o-Xylene	ND		49.8	51.3		ug/Kg		103	65 - 130	10	25
sec-Butylbenzene	ND		49.8	47.6		ug/Kg		95	60 - 135	2	25
Styrene	ND		49.8	49.4		ug/Kg		99	70 - 140	12	25
Tert-amyl-methyl ether (TAME)	ND		49.8	59.2		ug/Kg		119	60 - 150	8	25
tert-Butylbenzene	ND		49.8	46.5		ug/Kg		93	60 - 140	4	25
Tetrachloroethene	ND		49.8	45.7		ug/Kg		92	65 - 135	11	25
Toluene	ND		49.8	50.7		ug/Kg		102	70 - 130	13	20
trans-1,2-Dichloroethene	ND		49.8	51.7		ug/Kg		104	70 - 135	17	25
trans-1,3-Dichloropropene	ND		49.8	53.3		ug/Kg		107	60 - 145	15	25
Trichloroethene	ND		49.8	49.7		ug/Kg		100	65 - 140	5	25
Trichlorofluoromethane	ND		49.8	40.6		ug/Kg		81	55 - 155	3	25
Vinyl chloride	ND		49.8	37.1		ug/Kg		74	55 - 140	3	30
Isopropyl Ether (DIPE)	ND		49.8	55.8		ug/Kg		112	60 - 150	7	25
Ethyl-t-butyl ether (ETBE)	ND		49.8	60.9		ug/Kg		122	60 - 145	7	30
tert-Butyl alcohol (TBA)	ND		498	486		ug/Kg		98	65 - 145	3	30
p-Isopropyltoluene	ND		49.8	47.6		ug/Kg		96	60 - 140	2	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*79 - 123*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Dibromofluoromethane (Surr)	*102*		*60 - 120*

Lab Sample ID: MB 440-474138/4
Matrix: Water
Analysis Batch: 474138

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/L			05/04/18 08:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 128*		*05/04/18 08:25*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/04/18 08:25*	*1*
Dibromofluoromethane (Surr)	*112*		*76 - 132*		*05/04/18 08:25*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-474138/5
Matrix: Water
Analysis Batch: 474138

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			25.0	22.2		ug/L		89	60 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 128*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*

Lab Sample ID: 440-210471-C-1 MS
Matrix: Water
Analysis Batch: 474138

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		
Naphthalene	ND	F1	25.0	16.1		ug/L		62	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 128*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*76 - 132*

Lab Sample ID: 440-210471-C-1 MSD
Matrix: Water
Analysis Batch: 474138

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
Naphthalene	ND	F1	25.0	15.3	F1	ug/L		59	60 - 140	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 128*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*106*		*76 - 132*

Lab Sample ID: MB 440-474382/4
Matrix: Solid
Analysis Batch: 474382

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		250		ug/Kg			05/05/18 10:29	100
1,1,1-Trichloroethane	ND		100		ug/Kg			05/05/18 10:29	100
1,1,2,2-Tetrachloroethane	ND		100		ug/Kg			05/05/18 10:29	100
1,1,2-Trichloroethane	ND		100		ug/Kg			05/05/18 10:29	100
1,1-Dichloroethane	ND		100		ug/Kg			05/05/18 10:29	100
1,1-Dichloroethene	ND		250		ug/Kg			05/05/18 10:29	100
1,1-Dichloropropene	ND		100		ug/Kg			05/05/18 10:29	100
1,2,3-Trichlorobenzene	ND		250		ug/Kg			05/05/18 10:29	100
1,2,3-Trichloropropane	ND		500		ug/Kg			05/05/18 10:29	100
1,2,4-Trichlorobenzene	ND		250		ug/Kg			05/05/18 10:29	100
1,2,4-Trimethylbenzene	ND		100		ug/Kg			05/05/18 10:29	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-474382/4
Matrix: Solid
Analysis Batch: 474382

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		250		ug/Kg			05/05/18 10:29	100
1,2-Dibromoethane (EDB)	ND		100		ug/Kg			05/05/18 10:29	100
1,2-Dichlorobenzene	ND		100		ug/Kg			05/05/18 10:29	100
1,2-Dichloroethane	ND		100		ug/Kg			05/05/18 10:29	100
1,2-Dichloropropane	ND		100		ug/Kg			05/05/18 10:29	100
1,3,5-Trimethylbenzene	ND		100		ug/Kg			05/05/18 10:29	100
1,3-Dichlorobenzene	ND		100		ug/Kg			05/05/18 10:29	100
1,3-Dichloropropane	ND		100		ug/Kg			05/05/18 10:29	100
1,4-Dichlorobenzene	ND		100		ug/Kg			05/05/18 10:29	100
2,2-Dichloropropane	ND		200		ug/Kg			05/05/18 10:29	100
2-Chlorotoluene	ND		250		ug/Kg			05/05/18 10:29	100
4-Chlorotoluene	ND		250		ug/Kg			05/05/18 10:29	100
Benzene	ND		100		ug/Kg			05/05/18 10:29	100
Bromobenzene	ND		250		ug/Kg			05/05/18 10:29	100
Bromochloromethane	ND		250		ug/Kg			05/05/18 10:29	100
Bromodichloromethane	ND		100		ug/Kg			05/05/18 10:29	100
Bromoform	ND		250		ug/Kg			05/05/18 10:29	100
Bromomethane	ND		250		ug/Kg			05/05/18 10:29	100
Carbon tetrachloride	ND		250		ug/Kg			05/05/18 10:29	100
Chlorobenzene	ND		100		ug/Kg			05/05/18 10:29	100
Chloroethane	ND		250		ug/Kg			05/05/18 10:29	100
Chloroform	ND		100		ug/Kg			05/05/18 10:29	100
Chloromethane	ND		250		ug/Kg			05/05/18 10:29	100
cis-1,2-Dichloroethene	ND		100		ug/Kg			05/05/18 10:29	100
cis-1,3-Dichloropropene	ND		100		ug/Kg			05/05/18 10:29	100
Dibromochloromethane	ND		100		ug/Kg			05/05/18 10:29	100
Dibromomethane	ND		100		ug/Kg			05/05/18 10:29	100
Dichlorodifluoromethane	ND		250		ug/Kg			05/05/18 10:29	100
Ethylbenzene	ND		100		ug/Kg			05/05/18 10:29	100
Hexachlorobutadiene	ND		250		ug/Kg			05/05/18 10:29	100
Isopropylbenzene	ND		100		ug/Kg			05/05/18 10:29	100
m,p-Xylene	ND		200		ug/Kg			05/05/18 10:29	100
Methylene Chloride	ND		1000		ug/Kg			05/05/18 10:29	100
Methyl-t-Butyl Ether (MTBE)	ND		250		ug/Kg			05/05/18 10:29	100
Naphthalene	ND		250		ug/Kg			05/05/18 10:29	100
n-Butylbenzene	ND		250		ug/Kg			05/05/18 10:29	100
N-Propylbenzene	ND		100		ug/Kg			05/05/18 10:29	100
o-Xylene	ND		100		ug/Kg			05/05/18 10:29	100
sec-Butylbenzene	ND		250		ug/Kg			05/05/18 10:29	100
Styrene	ND		100		ug/Kg			05/05/18 10:29	100
Tert-amyl-methyl ether (TAME)	ND		250		ug/Kg			05/05/18 10:29	100
tert-Butylbenzene	ND		250		ug/Kg			05/05/18 10:29	100
Tetrachloroethene	ND		100		ug/Kg			05/05/18 10:29	100
Toluene	ND		100		ug/Kg			05/05/18 10:29	100
trans-1,2-Dichloroethene	ND		100		ug/Kg			05/05/18 10:29	100
trans-1,3-Dichloropropene	ND		100		ug/Kg			05/05/18 10:29	100
Trichloroethene	ND		100		ug/Kg			05/05/18 10:29	100
Trichlorofluoromethane	ND		250		ug/Kg			05/05/18 10:29	100

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-474382/4
Matrix: Solid
Analysis Batch: 474382

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		250		ug/Kg			05/05/18 10:29	100
Xylenes, Total	ND		200		ug/Kg			05/05/18 10:29	100
Isopropyl Ether (DIPE)	ND		250		ug/Kg			05/05/18 10:29	100
Ethyl-t-butyl ether (ETBE)	ND		250		ug/Kg			05/05/18 10:29	100
tert-Butyl alcohol (TBA)	ND		5000		ug/Kg			05/05/18 10:29	100
p-Isopropyltoluene	ND		100		ug/Kg			05/05/18 10:29	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*114*		*60 - 140*		*05/05/18 10:29*	*100*
4-Bromofluorobenzene (Surr)	*109*		*65 - 140*		*05/05/18 10:29*	*100*
Dibromofluoromethane (Surr)	*104*		*55 - 140*		*05/05/18 10:29*	*100*

Lab Sample ID: LCS 440-474382/5
Matrix: Solid
Analysis Batch: 474382

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2820		ug/Kg		113	70 - 140
1,1,1-Trichloroethane	2500	2920		ug/Kg		117	65 - 140
1,1,2,2-Tetrachloroethane	2500	2590		ug/Kg		104	55 - 135
1,1,2-Trichloroethane	2500	2810		ug/Kg		112	65 - 130
1,1-Dichloroethane	2500	2730		ug/Kg		109	65 - 130
1,1-Dichloroethene	2500	3070		ug/Kg		123	75 - 140
1,1-Dichloropropene	2500	2940		ug/Kg		118	70 - 130
1,2,3-Trichlorobenzene	2500	2750		ug/Kg		110	60 - 135
1,2,3-Trichloropropane	2500	2630		ug/Kg		105	55 - 130
1,2,4-Trichlorobenzene	2500	2600		ug/Kg		104	65 - 135
1,2,4-Trimethylbenzene	2500	2560		ug/Kg		102	70 - 125
1,2-Dibromo-3-Chloropropane	2500	2590		ug/Kg		104	45 - 135
1,2-Dibromoethane (EDB)	2500	2720		ug/Kg		109	70 - 130
1,2-Dichlorobenzene	2500	2660		ug/Kg		106	70 - 120
1,2-Dichloroethane	2500	2670		ug/Kg		107	60 - 145
1,2-Dichloropropane	2500	2580		ug/Kg		103	75 - 125
1,3,5-Trimethylbenzene	2500	2700		ug/Kg		108	70 - 125
1,3-Dichlorobenzene	2500	2490		ug/Kg		99	70 - 125
1,3-Dichloropropane	2500	2750		ug/Kg		110	65 - 130
1,4-Dichlorobenzene	2500	2370		ug/Kg		95	70 - 125
2,2-Dichloropropane	2500	2690		ug/Kg		108	60 - 145
2-Chlorotoluene	2500	2650		ug/Kg		106	70 - 125
4-Chlorotoluene	2500	2510		ug/Kg		101	70 - 125
Benzene	2500	2550		ug/Kg		102	65 - 120
Bromobenzene	2500	2580		ug/Kg		103	70 - 120
Bromochloromethane	2500	2560		ug/Kg		102	65 - 125
Bromodichloromethane	2500	2610		ug/Kg		104	65 - 135
Bromoform	2500	2620		ug/Kg		105	50 - 130
Bromomethane	2500	2400		ug/Kg		96	30 - 140
Carbon tetrachloride	2500	2910		ug/Kg		116	65 - 145
Chlorobenzene	2500	2650		ug/Kg		106	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-474382/5
Matrix: Solid
Analysis Batch: 474382

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	2500	2710		ug/Kg		109	40 - 140
Chloroform	2500	2720		ug/Kg		109	75 - 130
Chloromethane	2500	2040		ug/Kg		82	30 - 140
cis-1,2-Dichloroethene	2500	2640		ug/Kg		106	65 - 130
cis-1,3-Dichloropropene	2500	3020		ug/Kg		121	70 - 130
Dibromochloromethane	2500	2730		ug/Kg		109	65 - 140
Dibromomethane	2500	2530		ug/Kg		101	65 - 130
Dichlorodifluoromethane	2500	1920		ug/Kg		77	10 - 155
Ethylbenzene	2500	2790		ug/Kg		112	80 - 120
Hexachlorobutadiene	2500	2770		ug/Kg		111	60 - 135
Isopropylbenzene	2500	2730		ug/Kg		109	70 - 125
m,p-Xylene	2500	2670		ug/Kg		107	70 - 125
Methylene Chloride	2500	2540		ug/Kg		102	60 - 140
Methyl-t-Butyl Ether (MTBE)	2500	2630		ug/Kg		105	55 - 145
Naphthalene	2500	2460		ug/Kg		98	50 - 140
n-Butylbenzene	2500	2590		ug/Kg		104	70 - 130
N-Propylbenzene	2500	2750		ug/Kg		110	70 - 130
o-Xylene	2500	2630		ug/Kg		105	70 - 125
sec-Butylbenzene	2500	2620		ug/Kg		105	70 - 125
Styrene	2500	2950		ug/Kg		118	70 - 135
Tert-amyl-methyl ether (TAME)	2500	2590		ug/Kg		104	60 - 145
tert-Butylbenzene	2500	2700		ug/Kg		108	70 - 125
Tetrachloroethene	2500	2960		ug/Kg		118	65 - 125
Toluene	2500	2800		ug/Kg		112	80 - 120
trans-1,2-Dichloroethene	2500	2820		ug/Kg		113	65 - 130
trans-1,3-Dichloropropene	2500	2830		ug/Kg		113	65 - 135
Trichloroethene	2500	2640		ug/Kg		105	70 - 130
Trichlorofluoromethane	2500	2860		ug/Kg		115	50 - 145
Vinyl chloride	2500	1660		ug/Kg		66	10 - 120
Isopropyl Ether (DIPE)	2500	2820		ug/Kg		113	60 - 140
Ethyl-t-butyl ether (ETBE)	2500	2750		ug/Kg		110	60 - 140
tert-Butyl alcohol (TBA)	25000	26300		ug/Kg		105	65 - 140
p-Isopropyltoluene	2500	2560		ug/Kg		102	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*112*		*60 - 140*
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*
Dibromofluoromethane (Surr)	*103*		*55 - 140*

Lab Sample ID: LCSD 440-474382/6
Matrix: Solid
Analysis Batch: 474382

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
1,1,1,2-Tetrachloroethane	2500	2700		ug/Kg		108	70 - 140	4	20
1,1,1-Trichloroethane	2500	2930		ug/Kg		117	65 - 140	0	20
1,1,2,2-Tetrachloroethane	2500	2750		ug/Kg		110	55 - 135	6	25
1,1,2-Trichloroethane	2500	2740		ug/Kg		110	65 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-474382/6
Matrix: Solid
Analysis Batch: 474382

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
1,1-Dichloroethane	2500	2830		ug/Kg		113	65 - 130	4	20
1,1-Dichloroethene	2500	3020		ug/Kg		121	75 - 140	2	20
1,1-Dichloropropene	2500	3080		ug/Kg		123	70 - 130	4	20
1,2,3-Trichlorobenzene	2500	2800		ug/Kg		112	60 - 135	2	20
1,2,3-Trichloropropane	2500	2840		ug/Kg		114	55 - 130	8	25
1,2,4-Trichlorobenzene	2500	2850		ug/Kg		114	65 - 135	9	20
1,2,4-Trimethylbenzene	2500	2690		ug/Kg		108	70 - 125	5	20
1,2-Dibromo-3-Chloropropane	2500	2680		ug/Kg		107	45 - 135	3	25
1,2-Dibromoethane (EDB)	2500	2700		ug/Kg		108	70 - 130	1	20
1,2-Dichlorobenzene	2500	2770		ug/Kg		111	70 - 120	4	20
1,2-Dichloroethane	2500	2710		ug/Kg		109	60 - 145	2	20
1,2-Dichloropropane	2500	2700		ug/Kg		108	75 - 125	5	20
1,3,5-Trimethylbenzene	2500	2600		ug/Kg		104	70 - 125	4	20
1,3-Dichlorobenzene	2500	2550		ug/Kg		102	70 - 125	3	20
1,3-Dichloropropane	2500	2710		ug/Kg		108	65 - 130	1	20
1,4-Dichlorobenzene	2500	2440		ug/Kg		98	70 - 125	3	20
2,2-Dichloropropane	2500	2760		ug/Kg		110	60 - 145	3	25
2-Chlorotoluene	2500	2820		ug/Kg		113	70 - 125	6	20
4-Chlorotoluene	2500	2620		ug/Kg		105	70 - 125	4	20
Benzene	2500	2680		ug/Kg		107	65 - 120	5	20
Bromobenzene	2500	2610		ug/Kg		104	70 - 120	1	20
Bromochloromethane	2500	2530		ug/Kg		101	65 - 125	1	20
Bromodichloromethane	2500	2840		ug/Kg		114	65 - 135	9	20
Bromoform	2500	2700		ug/Kg		108	50 - 130	3	25
Bromomethane	2500	2490		ug/Kg		100	30 - 140	4	30
Carbon tetrachloride	2500	3030		ug/Kg		121	65 - 145	4	20
Chlorobenzene	2500	2600		ug/Kg		104	70 - 125	2	20
Chloroethane	2500	2730		ug/Kg		109	40 - 140	1	25
Chloroform	2500	2830		ug/Kg		113	75 - 130	4	20
Chloromethane	2500	2110		ug/Kg		84	30 - 140	3	25
cis-1,2-Dichloroethene	2500	2750		ug/Kg		110	65 - 130	4	20
cis-1,3-Dichloropropene	2500	2920		ug/Kg		117	70 - 130	3	20
Dibromochloromethane	2500	2610		ug/Kg		104	65 - 140	5	20
Dibromomethane	2500	2550		ug/Kg		102	65 - 130	1	20
Dichlorodifluoromethane	2500	1960		ug/Kg		78	10 - 155	2	30
Ethylbenzene	2500	2620		ug/Kg		105	80 - 120	6	20
Hexachlorobutadiene	2500	2960		ug/Kg		118	60 - 135	6	20
Isopropylbenzene	2500	2700		ug/Kg		108	70 - 125	1	20
m,p-Xylene	2500	2800		ug/Kg		112	70 - 125	5	20
Methylene Chloride	2500	2580		ug/Kg		103	60 - 140	1	20
Methyl-t-Butyl Ether (MTBE)	2500	2880		ug/Kg		115	55 - 145	9	25
Naphthalene	2500	2670		ug/Kg		107	50 - 140	8	25
n-Butylbenzene	2500	2660		ug/Kg		107	70 - 130	3	20
N-Propylbenzene	2500	2780		ug/Kg		111	70 - 130	1	20
o-Xylene	2500	2570		ug/Kg		103	70 - 125	2	20
sec-Butylbenzene	2500	2600		ug/Kg		104	70 - 125	1	20
Styrene	2500	2720		ug/Kg		109	70 - 135	8	20
Tert-amyl-methyl ether (TAME)	2500	2670		ug/Kg		107	60 - 145	3	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-474382/6
Matrix: Solid
Analysis Batch: 474382

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
tert-Butylbenzene			2500	2750		ug/Kg		110	70 - 125	2	20
Tetrachloroethene			2500	2790		ug/Kg		112	65 - 125	6	20
Toluene			2500	2800		ug/Kg		112	80 - 120	0	20
trans-1,2-Dichloroethene			2500	2960		ug/Kg		119	65 - 130	5	20
trans-1,3-Dichloropropene			2500	2800		ug/Kg		112	65 - 135	1	20
Trichloroethene			2500	2780		ug/Kg		111	70 - 130	5	20
Trichlorofluoromethane			2500	2880		ug/Kg		115	50 - 145	0	25
Vinyl chloride			2500	1710		ug/Kg		68	10 - 120	3	30
Isopropyl Ether (DIPE)			2500	2960		ug/Kg		118	60 - 140	5	20
Ethyl-t-butyl ether (ETBE)			2500	2850		ug/Kg		114	60 - 140	3	20
tert-Butyl alcohol (TBA)			25000	23200		ug/Kg		93	65 - 140	12	20
p-Isopropyltoluene			2500	2560		ug/Kg		102	70 - 125	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*60 - 140*
4-Bromofluorobenzene (Surr)	*110*		*65 - 140*
Dibromofluoromethane (Surr)	*109*		*55 - 140*

Lab Sample ID: MB 440-474490/5
Matrix: Solid
Analysis Batch: 474490

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		250		ug/Kg			05/07/18 08:42	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*60 - 140*		*05/07/18 08:42*	*100*
4-Bromofluorobenzene (Surr)	*109*		*65 - 140*		*05/07/18 08:42*	*100*
Dibromofluoromethane (Surr)	*104*		*55 - 140*		*05/07/18 08:42*	*100*

Lab Sample ID: LCS 440-474490/6
Matrix: Solid
Analysis Batch: 474490

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Naphthalene			2500	2850		ug/Kg		114	50 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*60 - 140*
4-Bromofluorobenzene (Surr)	*103*		*65 - 140*
Dibromofluoromethane (Surr)	*103*		*55 - 140*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-474490/7
Matrix: Solid
Analysis Batch: 474490

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
Naphthalene			2500	2950		ug/Kg		118	50 - 140	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*60 - 140*
4-Bromofluorobenzene (Surr)	*106*		*65 - 140*
Dibromofluoromethane (Surr)	*99*		*55 - 140*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-473865/1-A
Matrix: Solid
Analysis Batch: 474076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		350		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
2-Methylnaphthalene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
2-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Carbazole	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
4-Chloro-3-methylphenol	ND		400		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Pyridine	ND		340		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Acenaphthene	ND		350		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Acenaphthylene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Anthracene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Benzo[a]anthracene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Benzo[a]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Benzo[b]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Benzo[k]fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Chrysene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Dibenz(a,h)anthracene	ND		420		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Dibenzofuran	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Fluoranthene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Fluorene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Naphthalene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Pentachlorophenol	ND		830		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Phenanthrene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Phenol	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1
Pyrene	ND		330		ug/Kg		05/02/18 21:27	05/03/18 22:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*77*		*18 - 138*	*05/02/18 21:27*	*05/03/18 22:42*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*10 - 147*	*05/02/18 21:27*	*05/03/18 22:42*	*1*
Phenol-d6 (Surr)	*73*		*37 - 125*	*05/02/18 21:27*	*05/03/18 22:42*	*1*
Nitrobenzene-d5 (Surr)	*77*		*39 - 104*	*05/02/18 21:27*	*05/03/18 22:42*	*1*
2-Fluorobiphenyl	*81*		*42 - 113*	*05/02/18 21:27*	*05/03/18 22:42*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-473865/1-A
Matrix: Solid
Analysis Batch: 474076

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473865

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	80		43 - 125	05/02/18 21:27	05/03/18 22:42	1

Lab Sample ID: LCS 440-473865/2-A
Matrix: Solid
Analysis Batch: 474076

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	2500	2130		ug/Kg		85	44 - 119
2-Methylphenol	2500	2120		ug/Kg		85	42 - 130
Carbazole	2500	2200		ug/Kg		88	47 - 125
4-Chloro-3-methylphenol	2500	2250		ug/Kg		90	45 - 128
3-Methylphenol + 4-Methylphenol	2500	2190		ug/Kg		88	42 - 138
Pyridine	5000	2650		ug/Kg		53	21 - 76
Acenaphthene	2500	2120		ug/Kg		85	40 - 118
Acenaphthylene	2500	2290		ug/Kg		92	47 - 125
Anthracene	2500	2260		ug/Kg		90	51 - 122
Benzo[a]anthracene	2500	2280		ug/Kg		91	50 - 123
Benzo[a]pyrene	2500	2270		ug/Kg		91	52 - 125
Benzo[b]fluoranthene	2500	2190		ug/Kg		87	52 - 125
Benzo[g,h,i]perylene	2500	2420		ug/Kg		97	38 - 149
Benzo[k]fluoranthene	2500	2270		ug/Kg		91	50 - 132
Chrysene	2500	2190		ug/Kg		88	51 - 127
Dibenz(a,h)anthracene	2500	2390		ug/Kg		96	45 - 136
Dibenzofuran	2500	2200		ug/Kg		88	47 - 120
Fluoranthene	2500	2160		ug/Kg		86	44 - 123
Fluorene	2500	2110		ug/Kg		84	48 - 123
Indeno[1,2,3-cd]pyrene	2500	2390		ug/Kg		95	46 - 148
Naphthalene	2500	2090		ug/Kg		84	42 - 115
Pentachlorophenol	5000	4490		ug/Kg		90	40 - 121
Phenanthrene	2500	2210		ug/Kg		89	51 - 122
Phenol	2500	2350		ug/Kg		94	42 - 133
Pyrene	2500	2330		ug/Kg		93	54 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	78		18 - 138
2,4,6-Tribromophenol (Surr)	91		10 - 147
Phenol-d6 (Surr)	76		37 - 125
Nitrobenzene-d5 (Surr)	82		39 - 104
2-Fluorobiphenyl	82		42 - 113
Terphenyl-d14 (Surr)	79		43 - 125

Lab Sample ID: MB 440-473943/1-A
Matrix: Water
Analysis Batch: 474420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
1,3-Dichlorobenzene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-473943/1-A
Matrix: Water
Analysis Batch: 474420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
2,4,5-Trichlorophenol	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
2,4,6-Trichlorophenol	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
2,4-Dichlorophenol	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
2,4-Dimethylphenol	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
2,4-Dinitrophenol	ND		40		ug/L		05/03/18 08:44	05/05/18 18:33	1
2,4-Dinitrotoluene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
2,6-Dinitrotoluene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
2-Chloronaphthalene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
2-Chlorophenol	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
2-Methylnaphthalene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
2-Methylphenol	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
2-Nitroaniline	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
2-Nitrophenol	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
3,3'-Dichlorobenzidine	ND		40		ug/L		05/03/18 08:44	05/05/18 18:33	1
3-Nitroaniline	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
4-Bromophenyl phenyl ether	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
4-Chloro-3-methylphenol	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
4-Chloroaniline	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
3-Methylphenol + 4-Methylphenol	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
4-Nitroaniline	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
4-Nitrophenol	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Acenaphthene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Acenaphthylene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Aniline	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Anthracene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Benzidine	ND		40		ug/L		05/03/18 08:44	05/05/18 18:33	1
Benzo[a]anthracene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Benzo[a]pyrene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Benzo[b]fluoranthene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Benzo[g,h,i]perylene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Benzo[k]fluoranthene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Benzoic acid	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Benzyl alcohol	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Bis(2-chloroethyl)ether	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Bis(2-ethylhexyl) phthalate	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Butyl benzyl phthalate	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Chrysene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Dibenz(a,h)anthracene	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Dibenzofuran	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Diethyl phthalate	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Dimethyl phthalate	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Di-n-butyl phthalate	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Di-n-octyl phthalate	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Fluoranthene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-473943/1-A
Matrix: Water
Analysis Batch: 474420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 473943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Hexachlorobenzene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Hexachlorobutadiene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Hexachlorocyclopentadiene	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Hexachloroethane	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Indeno[1,2,3-cd]pyrene	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Isophorone	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Naphthalene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Nitrobenzene	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
N-Nitrosodiphenylamine	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Pentachlorophenol	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1
Phenanthrene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Phenol	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
Pyrene	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
bis (2-chloroisopropyl) ether	ND		10		ug/L		05/03/18 08:44	05/05/18 18:33	1
N-Nitrosodimethylamine	ND		20		ug/L		05/03/18 08:44	05/05/18 18:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*68*		*30 - 120*	*05/03/18 08:44*	*05/05/18 18:33*	*1*
2,4,6-Tribromophenol (Surr)	*102*		*40 - 120*	*05/03/18 08:44*	*05/05/18 18:33*	*1*
Phenol-d6 (Surr)	*70*		*35 - 120*	*05/03/18 08:44*	*05/05/18 18:33*	*1*
Nitrobenzene-d5 (Surr)	*90*		*45 - 120*	*05/03/18 08:44*	*05/05/18 18:33*	*1*
2-Fluorobiphenyl	*91*		*50 - 120*	*05/03/18 08:44*	*05/05/18 18:33*	*1*
Terphenyl-d14 (Surr)	*89*		*10 - 150*	*05/03/18 08:44*	*05/05/18 18:33*	*1*

Lab Sample ID: LCS 440-473943/2-A
Matrix: Water
Analysis Batch: 474420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	100	81.4		ug/L		81	25 - 84
1,3-Dichlorobenzene	100	69.3		ug/L		69	20 - 80
1,4-Dichlorobenzene	100	72.5		ug/L		72	22 - 81
2,4,5-Trichlorophenol	100	92.9		ug/L		93	24 - 121
2,4,6-Trichlorophenol	100	98.5		ug/L		99	20 - 121
2,4-Dichlorophenol	100	89.5		ug/L		89	23 - 113
2,4-Dimethylphenol	100	82.7		ug/L		83	39 - 94
2,4-Dinitrophenol	200	190		ug/L		95	23 - 134
2,4-Dinitrotoluene	100	98.5		ug/L		98	54 - 115
2,6-Dinitrotoluene	100	90.0		ug/L		90	50 - 115
2-Chloronaphthalene	100	83.3		ug/L		83	34 - 102
2-Chlorophenol	100	75.1		ug/L		75	20 - 106
2-Methylnaphthalene	100	86.0		ug/L		86	34 - 98
2-Methylphenol	100	78.3		ug/L		78	36 - 103
2-Nitroaniline	100	89.9		ug/L		90	48 - 111
2-Nitrophenol	100	84.5		ug/L		84	20 - 117
3,3'-Dichlorobenzidine	100	86.2		ug/L		86	22 - 97

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-473943/2-A
Matrix: Water
Analysis Batch: 474420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	100	72.6		ug/L		73	51 - 116
4,6-Dinitro-2-methylphenol	200	199		ug/L		99	28 - 139
4-Bromophenyl phenyl ether	100	93.1		ug/L		93	42 - 113
4-Chloro-3-methylphenol	100	80.1		ug/L		80	44 - 110
4-Chloroaniline	100	58.9		ug/L		59	42 - 109
4-Chlorophenyl phenyl ether	100	90.8		ug/L		91	38 - 115
3-Methylphenol + 4-Methylphenol	100	80.9		ug/L		81	35 - 106
4-Nitroaniline	100	78.7		ug/L		79	50 - 116
4-Nitrophenol	200	202		ug/L		101	26 - 132
Acenaphthene	100	89.7		ug/L		90	37 - 107
Acenaphthylene	100	89.3		ug/L		89	39 - 107
Aniline	100	64.2		ug/L		64	27 - 115
Anthracene	100	91.2		ug/L		91	42 - 120
Benzidine	100	85.3		ug/L		85	5 - 150
Benzo[a]anthracene	100	90.7		ug/L		91	42 - 115
Benzo[a]pyrene	100	93.8		ug/L		94	41 - 117
Benzo[b]fluoranthene	100	85.7		ug/L		86	36 - 113
Benzo[g,h,i]perylene	100	80.3		ug/L		80	37 - 115
Benzo[k]fluoranthene	100	91.1		ug/L		91	42 - 122
Benzoic acid	100	86.3		ug/L		86	15 - 121
Benzyl alcohol	100	75.4		ug/L		75	39 - 106
Bis(2-chloroethoxy)methane	100	82.4		ug/L		82	47 - 104
Bis(2-chloroethyl)ether	100	73.9		ug/L		74	42 - 99
Bis(2-ethylhexyl) phthalate	100	104		ug/L		104	43 - 124
Butyl benzyl phthalate	100	97.3		ug/L		97	44 - 122
Chrysene	100	91.0		ug/L		91	42 - 118
Dibenz(a,h)anthracene	100	81.1		ug/L		81	40 - 114
Dibenzofuran	100	92.5		ug/L		93	37 - 113
Diethyl phthalate	100	95.2		ug/L		95	51 - 120
Dimethyl phthalate	100	89.6		ug/L		90	49 - 113
Di-n-butyl phthalate	100	100		ug/L		100	47 - 125
Di-n-octyl phthalate	100	108		ug/L		108	42 - 125
Fluoranthene	100	96.0		ug/L		96	44 - 119
Fluorene	100	87.3		ug/L		87	39 - 116
Hexachlorobenzene	100	91.6		ug/L		92	43 - 112
Hexachlorobutadiene	100	76.7		ug/L		77	14 - 77
Hexachlorocyclopentadiene	100	76.3		ug/L		76	10 - 77
Hexachloroethane	100	67.0		ug/L		67	13 - 75
Indeno[1,2,3-cd]pyrene	100	84.3		ug/L		84	35 - 116
Isophorone	100	82.5		ug/L		82	48 - 107
Naphthalene	100	80.9		ug/L		81	33 - 95
Nitrobenzene	100	82.1		ug/L		82	42 - 99
N-Nitrosodi-n-propylamine	100	86.3		ug/L		86	44 - 111
N-Nitrosodiphenylamine	100	90.2		ug/L		90	46 - 116
Pentachlorophenol	200	205		ug/L		102	26 - 136
Phenanthrene	100	91.1		ug/L		91	43 - 120
Phenol	100	66.2		ug/L		66	25 - 99
Pyrene	100	91.4		ug/L		91	43 - 119

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-473943/2-A
Matrix: Water
Analysis Batch: 474420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 473943

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
bis (2-chloroisopropyl) ether			100	89.2		ug/L		89	38 - 104		
N-Nitrosodimethylamine			100	73.1		ug/L		73	35 - 96		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*65*		*30 - 120*
2,4,6-Tribromophenol (Surr)	*97*		*40 - 120*
Phenol-d6 (Surr)	*67*		*35 - 120*
Nitrobenzene-d5 (Surr)	*83*		*45 - 120*
2-Fluorobiphenyl	*85*		*50 - 120*
Terphenyl-d14 (Surr)	*85*		*10 - 150*

Lab Sample ID: LCSD 440-473943/3-A
Matrix: Water
Analysis Batch: 474420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 473943

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			100	82.8		ug/L		83	25 - 84	2	35
1,3-Dichlorobenzene			100	73.1		ug/L		73	20 - 80	5	35
1,4-Dichlorobenzene			100	74.6		ug/L		75	22 - 81	3	35
2,4,5-Trichlorophenol			100	98.0		ug/L		98	24 - 121	5	35
2,4,6-Trichlorophenol			100	102		ug/L		102	20 - 121	4	35
2,4-Dichlorophenol			100	90.9		ug/L		91	23 - 113	2	35
2,4-Dimethylphenol			100	85.8		ug/L		86	39 - 94	4	35
2,4-Dinitrophenol			200	211		ug/L		105	23 - 134	10	35
2,4-Dinitrotoluene			100	104		ug/L		104	54 - 115	5	35
2,6-Dinitrotoluene			100	94.3		ug/L		94	50 - 115	5	35
2-Chloronaphthalene			100	85.6		ug/L		86	34 - 102	3	35
2-Chlorophenol			100	80.1		ug/L		80	20 - 106	6	35
2-Methylnaphthalene			100	88.3		ug/L		88	34 - 98	3	35
2-Methylphenol			100	80.6		ug/L		81	36 - 103	3	35
2-Nitroaniline			100	96.6		ug/L		97	48 - 111	7	35
2-Nitrophenol			100	89.4		ug/L		89	20 - 117	6	35
3,3'-Dichlorobenzidine			100	32.5	J *	ug/L		33	22 - 97	90	35
3-Nitroaniline			100	68.8		ug/L		69	51 - 116	5	35
4,6-Dinitro-2-methylphenol			200	223		ug/L		112	28 - 139	12	35
4-Bromophenyl phenyl ether			100	96.0		ug/L		96	42 - 113	3	35
4-Chloro-3-methylphenol			100	84.7		ug/L		85	44 - 110	6	35
4-Chloroaniline			100	40.7	*	ug/L		41	42 - 109	37	35
4-Chlorophenyl phenyl ether			100	93.2		ug/L		93	38 - 115	3	35
3-Methylphenol + 4-Methylphenol			100	85.7		ug/L		86	35 - 106	6	35
4-Nitroaniline			100	84.7		ug/L		85	50 - 116	7	35
4-Nitrophenol			200	228		ug/L		114	26 - 132	12	35
Acenaphthene			100	93.3		ug/L		93	37 - 107	4	35
Acenaphthylene			100	91.7		ug/L		92	39 - 107	3	35
Aniline			100	56.4		ug/L		56	27 - 115	13	35
Anthracene			100	96.2		ug/L		96	42 - 120	5	35
Benzidine			100	78.1		ug/L		78	5 - 150	9	35
Benzo[a]anthracene			100	93.7		ug/L		94	42 - 115	3	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-473943/3-A
Matrix: Water
Analysis Batch: 474420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 473943

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene			100	97.4		ug/L		97	41 - 117	4	35
Benzo[b]fluoranthene			100	91.3		ug/L		91	36 - 113	6	35
Benzo[g,h,i]perylene			100	85.8		ug/L		86	37 - 115	7	35
Benzo[k]fluoranthene			100	92.7		ug/L		93	42 - 122	2	35
Benzoic acid			100	99.4		ug/L		99	15 - 121	14	35
Benzyl alcohol			100	73.1		ug/L		73	39 - 106	3	35
Bis(2-chloroethoxy)methane			100	83.9		ug/L		84	47 - 104	2	35
Bis(2-chloroethyl)ether			100	77.9		ug/L		78	42 - 99	5	35
Bis(2-ethylhexyl) phthalate			100	101		ug/L		101	43 - 124	2	35
Butyl benzyl phthalate			100	97.5		ug/L		98	44 - 122	0	35
Chrysene			100	93.8		ug/L		94	42 - 118	3	35
Dibenz(a,h)anthracene			100	84.4		ug/L		84	40 - 114	4	35
Dibenzofuran			100	93.6		ug/L		94	37 - 113	1	35
Diethyl phthalate			100	101		ug/L		101	51 - 120	6	35
Dimethyl phthalate			100	92.5		ug/L		93	49 - 113	3	35
Di-n-butyl phthalate			100	99.8		ug/L		100	47 - 125	0	35
Di-n-octyl phthalate			100	106		ug/L		106	42 - 125	1	35
Fluoranthene			100	96.3		ug/L		96	44 - 119	0	35
Fluorene			100	93.2		ug/L		93	39 - 116	7	35
Hexachlorobenzene			100	96.0		ug/L		96	43 - 112	5	35
Hexachlorobutadiene			100	77.2		ug/L		77	14 - 77	1	35
Hexachlorocyclopentadiene			100	80.5	*	ug/L		81	10 - 77	5	35
Hexachloroethane			100	69.2		ug/L		69	13 - 75	3	35
Indeno[1,2,3-cd]pyrene			100	87.8		ug/L		88	35 - 116	4	35
Isophorone			100	87.4		ug/L		87	48 - 107	6	35
Naphthalene			100	83.0		ug/L		83	33 - 95	3	35
Nitrobenzene			100	83.9		ug/L		84	42 - 99	2	35
N-Nitrosodi-n-propylamine			100	92.7		ug/L		93	44 - 111	7	35
N-Nitrosodiphenylamine			100	92.7		ug/L		93	46 - 116	3	35
Pentachlorophenol			200	219		ug/L		110	26 - 136	7	35
Phenanthrene			100	96.5		ug/L		96	43 - 120	6	35
Phenol			100	71.5		ug/L		72	25 - 99	8	35
Pyrene			100	97.4		ug/L		97	43 - 119	6	35
bis (2-chloroisopropyl) ether			100	91.5		ug/L		91	38 - 104	3	35
N-Nitrosodimethylamine			100	76.1		ug/L		76	35 - 96	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*64*		*30 - 120*
2,4,6-Tribromophenol (Surr)	*100*		*40 - 120*
Phenol-d6 (Surr)	*72*		*35 - 120*
Nitrobenzene-d5 (Surr)	*85*		*45 - 120*
2-Fluorobiphenyl	*84*		*50 - 120*
Terphenyl-d14 (Surr)	*87*		*10 - 150*

GC/MS VOA

Analysis Batch: 473909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-19	DP-19-5'	Total/NA	Solid	8260B	
MB 440-473909/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-473909/5	Lab Control Sample	Total/NA	Solid	8260B	
440-210294-19 MS	DP-19-5'	Total/NA	Solid	8260B	
440-210294-19 MSD	DP-19-5'	Total/NA	Solid	8260B	

Analysis Batch: 473913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-1	DP-1-13'	Total/NA	Solid	8260B	
440-210294-2	DP-2-14'	Total/NA	Solid	8260B	
440-210294-3	DP-3-7'	Total/NA	Solid	8260B	
440-210294-4	DP-4-6'	Total/NA	Solid	8260B	
440-210294-5	DP-5-11'	Total/NA	Solid	8260B	
440-210294-6	DP-6-12'	Total/NA	Solid	8260B	
440-210294-10	DP-10-20'	Total/NA	Solid	8260B	
440-210294-18	DP-18-4'	Total/NA	Solid	8260B	
440-210294-20	DP-20-4'	Total/NA	Solid	8260B	
MB 440-473913/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-473913/6	Lab Control Sample	Total/NA	Solid	8260B	
440-210093-A-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-210093-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Analysis Batch: 474090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-21	PZ-1	Total/NA	Water	8260B	
440-210294-22	PZ-2	Total/NA	Water	8260B	
440-210294-23	PZ-3	Total/NA	Water	8260B	
440-210294-24	PZ-5	Total/NA	Water	8260B	
440-210294-25	PZ-4	Total/NA	Water	8260B	
440-210294-26	PZ-6	Total/NA	Water	8260B	
440-210294-27	PZ-8	Total/NA	Water	8260B	
440-210294-28	PZ-7	Total/NA	Water	8260B	
MB 440-474090/4	Method Blank	Total/NA	Water	8260B	
LCS 440-474090/5	Lab Control Sample	Total/NA	Water	8260B	
440-210294-21 MS	PZ-1	Total/NA	Water	8260B	
440-210294-21 MSD	PZ-1	Total/NA	Water	8260B	

Analysis Batch: 474135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-7	DP-7-10'	Total/NA	Solid	8260B	
440-210294-8	DP-8-14'	Total/NA	Solid	8260B	
440-210294-9	DP-9-12'	Total/NA	Solid	8260B	
440-210294-12	DP-12-4'	Total/NA	Solid	8260B	
440-210294-13	DP-13-10'	Total/NA	Solid	8260B	
440-210294-16	DP-16-8'	Total/NA	Solid	8260B	
440-210294-17	DP-17-8'	Total/NA	Solid	8260B	
MB 440-474135/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-474135/5	Lab Control Sample	Total/NA	Solid	8260B	
440-210294-17 MS	DP-17-8'	Total/NA	Solid	8260B	
440-210294-17 MSD	DP-17-8'	Total/NA	Solid	8260B	

GC/MS VOA (Continued)

Analysis Batch: 474138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-27 - DL	PZ-8	Total/NA	Water	8260B	
MB 440-474138/4	Method Blank	Total/NA	Water	8260B	
LCS 440-474138/5	Lab Control Sample	Total/NA	Water	8260B	
440-210471-C-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-210471-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Prep Batch: 474151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-11	DP-11-5'	Total/NA	Solid	5030B	
440-210294-14	DP-14-6'	Total/NA	Solid	5030B	
440-210294-15	DP-15-7'	Total/NA	Solid	5030B	
440-210294-15 - DL	DP-15-7'	Total/NA	Solid	5030B	

Analysis Batch: 474382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-11	DP-11-5'	Total/NA	Solid	8260B	474151
440-210294-14	DP-14-6'	Total/NA	Solid	8260B	474151
440-210294-15	DP-15-7'	Total/NA	Solid	8260B	474151
MB 440-474382/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-474382/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-474382/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 474490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-15 - DL	DP-15-7'	Total/NA	Solid	8260B	474151
MB 440-474490/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-474490/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-474490/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 473865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-1	DP-1-13'	Total/NA	Solid	3546	
440-210294-2	DP-2-14'	Total/NA	Solid	3546	
440-210294-3	DP-3-7'	Total/NA	Solid	3546	
440-210294-4	DP-4-6'	Total/NA	Solid	3546	
440-210294-5	DP-5-11'	Total/NA	Solid	3546	
440-210294-6	DP-6-12'	Total/NA	Solid	3546	
440-210294-7	DP-7-10'	Total/NA	Solid	3546	
440-210294-8	DP-8-14'	Total/NA	Solid	3546	
440-210294-9	DP-9-12'	Total/NA	Solid	3546	
440-210294-10	DP-10-20'	Total/NA	Solid	3546	
440-210294-11	DP-11-5'	Total/NA	Solid	3546	
440-210294-12	DP-12-4'	Total/NA	Solid	3546	
440-210294-13	DP-13-10'	Total/NA	Solid	3546	
440-210294-14	DP-14-6'	Total/NA	Solid	3546	
440-210294-15	DP-15-7'	Total/NA	Solid	3546	
440-210294-16	DP-16-8'	Total/NA	Solid	3546	
440-210294-17	DP-17-8'	Total/NA	Solid	3546	

GC/MS Semi VOA (Continued)

Prep Batch: 473865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-18	DP-18-4'	Total/NA	Solid	3546	
440-210294-19	DP-19-5'	Total/NA	Solid	3546	
440-210294-20	DP-20-4'	Total/NA	Solid	3546	
MB 440-473865/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-473865/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 473943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-21	PZ-1	Total/NA	Water	3520C	
440-210294-21 - DL	PZ-1	Total/NA	Water	3520C	
440-210294-22	PZ-2	Total/NA	Water	3520C	
440-210294-22 - DL	PZ-2	Total/NA	Water	3520C	
440-210294-23	PZ-3	Total/NA	Water	3520C	
440-210294-24	PZ-5	Total/NA	Water	3520C	
440-210294-25	PZ-4	Total/NA	Water	3520C	
440-210294-25 - DL	PZ-4	Total/NA	Water	3520C	
440-210294-26	PZ-6	Total/NA	Water	3520C	
440-210294-26 - DL	PZ-6	Total/NA	Water	3520C	
440-210294-27	PZ-8	Total/NA	Water	3520C	
440-210294-27 - DL	PZ-8	Total/NA	Water	3520C	
440-210294-28	PZ-7	Total/NA	Water	3520C	
440-210294-28 - DL	PZ-7	Total/NA	Water	3520C	
MB 440-473943/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-473943/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-473943/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 474076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-2	DP-2-14'	Total/NA	Solid	8270C	473865
440-210294-3	DP-3-7'	Total/NA	Solid	8270C	473865
440-210294-8	DP-8-14'	Total/NA	Solid	8270C	473865
440-210294-10	DP-10-20'	Total/NA	Solid	8270C	473865
440-210294-12	DP-12-4'	Total/NA	Solid	8270C	473865
440-210294-13	DP-13-10'	Total/NA	Solid	8270C	473865
440-210294-15	DP-15-7'	Total/NA	Solid	8270C	473865
440-210294-16	DP-16-8'	Total/NA	Solid	8270C	473865
440-210294-17	DP-17-8'	Total/NA	Solid	8270C	473865
440-210294-19	DP-19-5'	Total/NA	Solid	8270C	473865
MB 440-473865/1-A	Method Blank	Total/NA	Solid	8270C	473865
LCS 440-473865/2-A	Lab Control Sample	Total/NA	Solid	8270C	473865

Analysis Batch: 474088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-1	DP-1-13'	Total/NA	Solid	8270C	473865
440-210294-4	DP-4-6'	Total/NA	Solid	8270C	473865
440-210294-5	DP-5-11'	Total/NA	Solid	8270C	473865
440-210294-6	DP-6-12'	Total/NA	Solid	8270C	473865
440-210294-7	DP-7-10'	Total/NA	Solid	8270C	473865
440-210294-9	DP-9-12'	Total/NA	Solid	8270C	473865
440-210294-11	DP-11-5'	Total/NA	Solid	8270C	473865
440-210294-14	DP-14-6'	Total/NA	Solid	8270C	473865

GC/MS Semi VOA (Continued)

Analysis Batch: 474088 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-18	DP-18-4'	Total/NA	Solid	8270C	473865
440-210294-20	DP-20-4'	Total/NA	Solid	8270C	473865

Analysis Batch: 474420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-473943/1-A	Method Blank	Total/NA	Water	8270C	473943
LCS 440-473943/2-A	Lab Control Sample	Total/NA	Water	8270C	473943
LCSD 440-473943/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	473943

Analysis Batch: 474427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-21	PZ-1	Total/NA	Water	8270C	473943
440-210294-22	PZ-2	Total/NA	Water	8270C	473943
440-210294-25	PZ-4	Total/NA	Water	8270C	473943
440-210294-26	PZ-6	Total/NA	Water	8270C	473943
440-210294-27	PZ-8	Total/NA	Water	8270C	473943
440-210294-28	PZ-7	Total/NA	Water	8270C	473943

Analysis Batch: 474601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-210294-21 - DL	PZ-1	Total/NA	Water	8270C	473943
440-210294-22 - DL	PZ-2	Total/NA	Water	8270C	473943
440-210294-23	PZ-3	Total/NA	Water	8270C	473943
440-210294-24	PZ-5	Total/NA	Water	8270C	473943
440-210294-25 - DL	PZ-4	Total/NA	Water	8270C	473943
440-210294-26 - DL	PZ-6	Total/NA	Water	8270C	473943
440-210294-27 - DL	PZ-8	Total/NA	Water	8270C	473943
440-210294-28 - DL	PZ-7	Total/NA	Water	8270C	473943

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 440-210294-1
Project/Site: Angel Fire Site Characterization

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-19
Hawaii	State Program	9	N/A	01-29-19
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-19
Oregon	NELAP	10	4028	01-29-19
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

TestAmerica Denver
4955 Yarrow Street

Arvada, CO 80002-4517
phone 303.736 0100 fax 303 431 7171

Chain of Custody Record

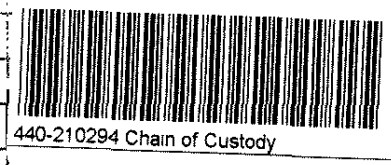
TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Antony Jones	Site Contact: Stephen Parton	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 949-241-7263	Lab Contact: Camille Murray	Carrier: FedEx	1 of 3 COCs
1650 Iowa Avenue, Suite 180	Analysis Turnaround Time			Sampler:
Riverside, CA 92507	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
951-682-8576	TAT if different from Below ____			Walk-in Client:
951-682-8577	☐ 2 weeks			Lab Sampling
Project Name: Angel Fire Site Characterization	☐ 1 week			
Angel Fire NM	☑ 2 days			Job / SDG No.:
P O # HY1622/03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC (EPA 8260B)	SVOC (EPA 8270C)	Sample Specific Notes:
DP-1 -13'	4-26-18	1026	G	Soil	1-4oz			X	X	
DP-2 -14'		1141								
DP-3 - 7'		1215								
DP-4 - 6'		1314								
DP-5 - 11'		1436								
DP-6 -12'		1515								
DP-7 -10'		1605								
DP-8 -14'		1700								
DP-9 - 12'	4-27-18	0915	G	Soil	1-4oz			X	X	
DP-10 -20'		1035								
DP-11 - 5'		1129								
DP-12 - 4'		1235								



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

NO CUSTODY SEALS PROVIDED / NO TEMP BLANK PROVIDED 1.2 1.2 IRSCP

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 806-392-6602		Cooler Temp (°C): Obs'd.____ Corr'd.____		Therm ID No.: ____
Relinquished by: S. Parton	Company: Geosyntec	Date/Time: 4-30-18 1800	Received by: Fed Ex	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company: THE	Date/Time: 5/1/18 1550	Received in Laboratory by:	Company: TA-DEN	Date/Time: 5-1-18 0900

Cs FedEx 4170 2830 0814

3.6, 5.2 °C 0 0 IR-8 Thermometer ID: HAPV 5/2/18 0830

Form No. CA-C-WI-002, Rev. 4.16, dated 3/20/2018

5/8/2018

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002-4517
phone 303.736 0100 fax 303 431 7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Antony Jones	Site Contact: Stephen Parton	Date:	COC No.
Geosyntec Consultants	Tel/Fax: 949-241-7263	Lab Contact: Camille Murray	Carrier: FedEx	2 of 3 COCs
1650 Iowa Avenue, Suite 180	Analysis Turnaround Time			Sampler:
Riverside, CA 92507	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
951-682-8576	TAT if different from Below _____			Walk-in Client:
951-682-8577	☐ 2 weeks			Lab Sampling
Project Name: Angel Fire Site Characterization	☐ 1 week			
Angel Fire NM	☑ 2 days			Job / SDG No
P O # HY1622/03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOC (EPA 8260B)	SVOC (EPA 8270C)	Sample Specific Notes.
DP-13 -10'	4-27-19	1312	G	Soil	1-4oz			X	X	
DP-14 -6'		1405								
DP-15 -7'		1450								
DP-16 -8'		1534								
DP-17 -8'		1636								
DP-18 -4'	4-28-19	0947						X	X	
DP-19 -5'		1021								
DP-20 -4'		1109								

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

NO CUSTODY SEALS PROVIDED, NO TEMP BLANK PROVIDED

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 826, 392, 6603	Cooler Temp. (°C): Obs'd. _____	Corr'd: _____	Therm ID No.: _____
Relinquished by: S Parton	Company: Geosyntec	Date/Time: 4-30-19 1800	Received by: [illegible]	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by: [signature]	Company: TAL	Date/Time: 5/1/19 1545	Received in Laboratory by: [signature]	Company: TA-DEN	Date/Time: 5-1-19 - 0900

[signature] TA-DEN 5/1/19 0900

TestAmerica Denver
4955 Yarrow Street

Arvada, CO 80002-4517
phone 303 736.0100 fax 303 431.7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Antony Jones	Site Contact: Stephen Parton	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 949-241-7263	Lab Contact: Camille Murray	Carrier: FedEx	3 of 3 COCs
1650 Iowa Avenue, Suite 180	Analysis Turnaround Time			Sampler.
Riverside, CA 92507	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
951-682-8576	TAT if different from Below _____			Walk-in Client.
951-682-8577	☐ 2 weeks			Lab Sampling
Project Name: Angel Fire Site Characterization	☐ 1 week			
Angel Fire NM	☑ 2 days			Job / SDG No :
P O # HY1622/03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOC (EPA 8260B)	SVOC (EPA 8270C)	Sample Specific Notes:
P2-1	4-28-18	1225	G	H_2O	4			X	X	3 VOA's, 1 1L Amber
P2-2	↓	1236	↓	↓	↓			↓	↓	
P2-3		1240								
P2-5		1251								
P2-4		1259								
P2-6		1311								
P2-8		1321								
P2-7	↓	1330	↓	↓	↓			↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

No Custody Seals Provided, No Temp Blank Provided

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No : 8X-362-6652		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No. _____
Relinquished by:	Company:	Date/Time: 4-30-18 1600	Received by:	Company:	Date/Time:
Relinquished by:	Company: TMC	Date/Time: 5/1/18 1545	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-DEN	Date/Time: 5/1/18 0900

Form No. CA-C-WI-002, Rev. 4.16, dated 3/20/2018

5/8/2018

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 440-210294-1

Login Number: 210294
List Number: 1
Creator: Skinner, Alma D

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
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.	False	Limited volume received.
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-222839-1
Client Project/Site: Angel Fire LLC
Revision: 1

For:
Geosyntec Consultants, Inc.
1650 Iowa Avenue
Suite 180
Riverside, California 92507

Attn: Antony Jones

Authorized for release by:
11/14/2018 12:15:12 PM

Lena Davidkova, Project Manager II
(949)261-1022
lena.davidkova@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

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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: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-222839-1	PZ- 19	Water	10/18/18 11:55	10/23/18 09:30
440-222839-2	PZ- 12	Water	10/18/18 13:20	10/23/18 09:30
440-222839-3	PZ- 20	Water	10/18/18 12:43	10/23/18 09:30
440-222839-4	PZ- 9	Water	10/18/18 14:48	10/23/18 09:30
440-222839-5	PZ- 10	Water	10/18/18 15:08	10/23/18 09:30
440-222839-6	PZ- 11	Water	10/18/18 15:17	10/23/18 09:30
440-222839-7	PZ- 13	Water	10/18/18 15:30	10/23/18 09:30
440-222839-8	PZ- 12 DUP	Water	10/18/18 15:40	10/23/18 09:30
440-222839-9	PZ- 14	Water	10/18/18 15:52	10/23/18 09:30
440-222839-10	PZ- 15	Water	10/18/18 16:05	10/23/18 09:30
440-222839-11	PZ- 16	Water	10/18/18 16:18	10/23/18 09:30
440-222839-12	PZ- 17	Water	10/18/18 16:34	10/23/18 09:30
440-222839-13	PZ- 18	Water	10/18/18 16:49	10/23/18 09:30
440-222839-14	PZ- 19 DUP	Water	10/18/18 17:13	10/23/18 09:30
440-222839-15	PZ- 12-7'	Solid	10/16/18 13:02	10/23/18 09:30
440-222839-16	PZ- 19-10'	Solid	10/17/18 10:45	10/23/18 09:30
440-222839-17	PZ- 20-7'	Solid	10/17/18 11:30	10/23/18 09:30

Job ID: 440-222839-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-222839-1

Comments
This report was revised to include two sets for 8270-SVOC data for samples PZ-19, PZ-20, PZ-11, PZ-12

Receipt
The samples were received on 10/23/2018 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.3º C and 4.0º C.

GC/MS Semi VOA
Method(s) 8270C: Surrogate Nitrobenzene-d5 recovery for the following sample was outside control limits: PZ- 12-7' (440-222839-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270C: The following sample was diluted due to the nature of the sample matrix: PZ- 20-7' (440-222839-17). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The source sample for the MS/MSD was diluted due to the nature of the sample matrix. As such, surrogate and MS/MSD spike recoveries were diluted out and are not reported. The batch was accepted based on the recovery of the LCS.

Method(s) 8270C: The percent recovery of Aniline in the laboratory control sample (LCS) of preparation batch 440-507422 and analytical batch 440-507897 failed below the lower acceptance limit. Per method 8270C, this analyte is classified as a poor performer and exhibits erratic recoveries under routine conditions of the preparation and analytical procedures.
The following affected samples are reported with possible low bias for this analyte:

Method(s) 8270C: The percent recovery of Benzidine in the laboratory control sample (LCS) for preparation batch 440-507422 and analytical batch 440-507897 was below the acceptance limits. Despite the recovery meeting percent limits, the response cannot be considered valid. Per the EPA method, this compound is subject to oxidative loss during sample preparation and as a consequence yields erratic recoveries. As a result, Benzidine is reported with possible low bias for the following samples:

Method(s) 8270C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 440-507422 and analytical batch 440-507897 recovered outside control limits for the following analytes: Benzidine and Aniline.

Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-507147 and analytical batch 440-507897 were outside control limits.

Method(s) 8270C: The following sample required a dilution due to the nature of the sample matrix: PZ- 19-10' (440-222839-16). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The following samples required a dilution due to the nature of the sample matrix: PZ- 20 (440-222839-3), PZ- 13 (440-222839-7) and PZ- 12 DUP (440-222839-8). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 440-507147 and analytical batch 440-507897 was outside control limits. Sample matrix interference is suspected.

Method(s) 8270C: The following samples required a dilution due to the nature of the sample matrix: PZ- 19 (440-222839-1) and PZ- 12 (440-222839-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Antimony for preparation batch 440-506990 and

Job ID: 440-222839-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

analytical batch 440-507329 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.

Organic Prep
Method(s) 3520C, 625: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 3520C_8270C/625-REG preparation batch 440-507147 and 440-507147.

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with prep. batch 507422 preparation batch 440-507422.3520/8270C.

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

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Client Sample ID: PZ- 19
Date Collected: 10/18/18 11:55
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
1,2,4-Trichlorobenzene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
1,3-Dichlorobenzene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
1,3-Dichlorobenzene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
1,4-Dichlorobenzene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
1,4-Dichlorobenzene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
2,4,5-Trichlorophenol	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
2,4,5-Trichlorophenol	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
2,4,6-Trichlorophenol	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
2,4,6-Trichlorophenol	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
2,4-Dichlorophenol	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
2,4-Dichlorophenol	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
2,4-Dimethylphenol	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
2,4-Dimethylphenol	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
2,4-Dinitrophenol	ND		800		ug/L		10/24/18 09:13	10/29/18 01:24	20
2,4-Dinitrophenol	ND		800		ug/L		10/24/18 09:13	11/05/18 02:57	20
2,4-Dinitrotoluene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
2,4-Dinitrotoluene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
2,6-Dinitrotoluene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
2,6-Dinitrotoluene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
2-Chloronaphthalene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
2-Chloronaphthalene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
2-Chlorophenol	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
2-Chlorophenol	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
2-Methylnaphthalene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
2-Methylnaphthalene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
2-Methylphenol	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
2-Methylphenol	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
2-Nitroaniline	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
2-Nitroaniline	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
2-Nitrophenol	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
2-Nitrophenol	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
3,3'-Dichlorobenzidine	ND		800		ug/L		10/24/18 09:13	10/29/18 01:24	20
3,3'-Dichlorobenzidine	ND		800		ug/L		10/24/18 09:13	11/05/18 02:57	20
3-Nitroaniline	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
3-Nitroaniline	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
4,6-Dinitro-2-methylphenol	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
4,6-Dinitro-2-methylphenol	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
4-Bromophenyl phenyl ether	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
4-Bromophenyl phenyl ether	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
4-Chloro-3-methylphenol	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
4-Chloro-3-methylphenol	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
4-Chloroaniline	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
4-Chloroaniline	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
4-Chlorophenyl phenyl ether	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
4-Chlorophenyl phenyl ether	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
3-Methylphenol + 4-Methylphenol	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
3-Methylphenol + 4-Methylphenol	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
4-Nitroaniline	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20

Client Sample ID: PZ- 19
Date Collected: 10/18/18 11:55
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
4-Nitrophenol	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
4-Nitrophenol	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
Acenaphthene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Acenaphthene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Acenaphthylene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Acenaphthylene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Aniline	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Aniline	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Anthracene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Anthracene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Benzidine	ND		800		ug/L		10/24/18 09:13	10/29/18 01:24	20
Benzidine	ND		800		ug/L		10/24/18 09:13	11/05/18 02:57	20
Benzo[a]anthracene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Benzo[a]anthracene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Benzo[a]pyrene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Benzo[a]pyrene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Benzo[b]fluoranthene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Benzo[b]fluoranthene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Benzo[g,h,i]perylene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Benzo[g,h,i]perylene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Benzo[k]fluoranthene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Benzo[k]fluoranthene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Benzoic acid	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Benzoic acid	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
Benzyl alcohol	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Benzyl alcohol	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
Bis(2-chloroethoxy)methane	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Bis(2-chloroethoxy)methane	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Bis(2-chloroethyl)ether	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Bis(2-chloroethyl)ether	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Bis(2-ethylhexyl) phthalate	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Bis(2-ethylhexyl) phthalate	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
Butyl benzyl phthalate	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Butyl benzyl phthalate	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
Chrysene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Chrysene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Dibenz(a,h)anthracene	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Dibenz(a,h)anthracene	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
Dibenzofuran	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Dibenzofuran	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Diethyl phthalate	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Diethyl phthalate	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Dimethyl phthalate	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Dimethyl phthalate	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Di-n-butyl phthalate	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Di-n-butyl phthalate	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
Di-n-octyl phthalate	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Di-n-octyl phthalate	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20

Client Sample ID: PZ- 19
Date Collected: 10/18/18 11:55
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Fluoranthene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Fluorene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Fluorene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Hexachlorobenzene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Hexachlorobenzene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Hexachlorobutadiene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Hexachlorobutadiene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Hexachlorocyclopentadiene	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Hexachlorocyclopentadiene	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
Hexachloroethane	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Hexachloroethane	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Indeno[1,2,3-cd]pyrene	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Indeno[1,2,3-cd]pyrene	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
Isophorone	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Isophorone	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Naphthalene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Naphthalene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Nitrobenzene	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Nitrobenzene	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
N-Nitrosodi-n-propylamine	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
N-Nitrosodi-n-propylamine	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
N-Nitrosodiphenylamine	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
N-Nitrosodiphenylamine	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Pentachlorophenol	**1100**		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
Pentachlorophenol	**1000**		400		ug/L		10/24/18 09:13	11/05/18 02:57	20
Phenanthrene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Phenanthrene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Phenol	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Phenol	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
Pyrene	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
Pyrene	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
bis (2-chloroisopropyl) ether	ND		200		ug/L		10/24/18 09:13	10/29/18 01:24	20
bis (2-chloroisopropyl) ether	ND		200		ug/L		10/24/18 09:13	11/05/18 02:57	20
N-Nitrosodimethylamine	ND		400		ug/L		10/24/18 09:13	10/29/18 01:24	20
N-Nitrosodimethylamine	ND		400		ug/L		10/24/18 09:13	11/05/18 02:57	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*50 - 120*	*10/24/18 09:13*	*10/29/18 01:24*	*20*
2-Fluorobiphenyl	*57*		*50 - 120*	*10/24/18 09:13*	*11/05/18 02:57*	*20*
2-Fluorophenol (Surr)	*0*	*X*	*30 - 120*	*10/24/18 09:13*	*10/29/18 01:24*	*20*
2-Fluorophenol (Surr)	*0*	*X*	*30 - 120*	*10/24/18 09:13*	*11/05/18 02:57*	*20*
2,4,6-Tribromophenol (Surr)	*62*		*40 - 120*	*10/24/18 09:13*	*10/29/18 01:24*	*20*
2,4,6-Tribromophenol (Surr)	*66*		*40 - 120*	*10/24/18 09:13*	*11/05/18 02:57*	*20*
Nitrobenzene-d5 (Surr)	*0*	*X*	*45 - 120*	*10/24/18 09:13*	*10/29/18 01:24*	*20*
Nitrobenzene-d5 (Surr)	*30*	*X*	*45 - 120*	*10/24/18 09:13*	*11/05/18 02:57*	*20*
Terphenyl-d14 (Surr)	*81*		*10 - 150*	*10/24/18 09:13*	*10/29/18 01:24*	*20*
Terphenyl-d14 (Surr)	*66*		*10 - 150*	*10/24/18 09:13*	*11/05/18 02:57*	*20*
Phenol-d6 (Surr)	*0*	*X*	*35 - 120*	*10/24/18 09:13*	*10/29/18 01:24*	*20*
Phenol-d6 (Surr)	*0*	*X*	*35 - 120*	*10/24/18 09:13*	*11/05/18 02:57*	*20*

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Client Sample ID: PZ- 12
Date Collected: 10/18/18 13:20
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
1,2,4-Trichlorobenzene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
1,3-Dichlorobenzene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
1,3-Dichlorobenzene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
1,4-Dichlorobenzene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
1,4-Dichlorobenzene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
2,4,5-Trichlorophenol	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
2,4,5-Trichlorophenol	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
2,4,6-Trichlorophenol	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
2,4,6-Trichlorophenol	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
2,4-Dichlorophenol	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
2,4-Dichlorophenol	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
2,4-Dimethylphenol	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
2,4-Dimethylphenol	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
2,4-Dinitrophenol	ND		2000		ug/L		10/24/18 09:13	10/29/18 01:49	50
2,4-Dinitrophenol	ND		2000		ug/L		10/24/18 09:13	11/05/18 03:22	50
2,4-Dinitrotoluene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
2,4-Dinitrotoluene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
2,6-Dinitrotoluene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
2,6-Dinitrotoluene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
2-Chloronaphthalene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
2-Chloronaphthalene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
2-Chlorophenol	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
2-Chlorophenol	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
2-Methylnaphthalene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
2-Methylnaphthalene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
2-Methylphenol	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
2-Methylphenol	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
2-Nitroaniline	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
2-Nitroaniline	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
2-Nitrophenol	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
2-Nitrophenol	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
3,3'-Dichlorobenzidine	ND		2000		ug/L		10/24/18 09:13	10/29/18 01:49	50
3,3'-Dichlorobenzidine	ND		2000		ug/L		10/24/18 09:13	11/05/18 03:22	50
3-Nitroaniline	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
3-Nitroaniline	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
4,6-Dinitro-2-methylphenol	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
4,6-Dinitro-2-methylphenol	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
4-Bromophenyl phenyl ether	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
4-Bromophenyl phenyl ether	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
4-Chloro-3-methylphenol	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
4-Chloro-3-methylphenol	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
4-Chloroaniline	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
4-Chloroaniline	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
4-Chlorophenyl phenyl ether	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
4-Chlorophenyl phenyl ether	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
3-Methylphenol + 4-Methylphenol	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
3-Methylphenol + 4-Methylphenol	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
4-Nitroaniline	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50

Client Sample ID: PZ- 12
Date Collected: 10/18/18 13:20
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
4-Nitrophenol	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
4-Nitrophenol	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Acenaphthene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Acenaphthene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Acenaphthylene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Acenaphthylene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Aniline	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Aniline	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Anthracene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Anthracene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Benzidine	ND		2000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Benzidine	ND		2000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Benzo[a]anthracene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Benzo[a]anthracene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Benzo[a]pyrene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Benzo[a]pyrene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Benzo[b]fluoranthene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Benzo[b]fluoranthene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Benzo[g,h,i]perylene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Benzo[g,h,i]perylene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Benzo[k]fluoranthene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Benzo[k]fluoranthene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Benzoic acid	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Benzoic acid	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Benzyl alcohol	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Benzyl alcohol	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Bis(2-chloroethoxy)methane	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Bis(2-chloroethoxy)methane	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Bis(2-chloroethyl)ether	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Bis(2-chloroethyl)ether	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Bis(2-ethylhexyl) phthalate	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Bis(2-ethylhexyl) phthalate	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Butyl benzyl phthalate	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Butyl benzyl phthalate	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Chrysene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Chrysene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Dibenz(a,h)anthracene	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Dibenz(a,h)anthracene	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Dibenzofuran	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Dibenzofuran	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Diethyl phthalate	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Diethyl phthalate	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Dimethyl phthalate	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Dimethyl phthalate	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Di-n-butyl phthalate	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Di-n-butyl phthalate	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Di-n-octyl phthalate	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Di-n-octyl phthalate	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50

Client Sample ID: PZ- 12
Date Collected: 10/18/18 13:20
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-2
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Fluoranthene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Fluorene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Fluorene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Hexachlorobenzene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Hexachlorobenzene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Hexachlorobutadiene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Hexachlorobutadiene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Hexachlorocyclopentadiene	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Hexachlorocyclopentadiene	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Hexachloroethane	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Hexachloroethane	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Indeno[1,2,3-cd]pyrene	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Indeno[1,2,3-cd]pyrene	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Isophorone	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Isophorone	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Naphthalene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Naphthalene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Nitrobenzene	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Nitrobenzene	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
N-Nitrosodi-n-propylamine	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
N-Nitrosodi-n-propylamine	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
N-Nitrosodiphenylamine	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
N-Nitrosodiphenylamine	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Pentachlorophenol	**2800**		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
Pentachlorophenol	**3000**		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50
Phenanthrene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Phenanthrene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Phenol	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Phenol	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
Pyrene	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
Pyrene	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
bis (2-chloroisopropyl) ether	ND		510		ug/L		10/24/18 09:13	10/29/18 01:49	50
bis (2-chloroisopropyl) ether	ND		510		ug/L		10/24/18 09:13	11/05/18 03:22	50
N-Nitrosodimethylamine	ND		1000		ug/L		10/24/18 09:13	10/29/18 01:49	50
N-Nitrosodimethylamine	ND		1000		ug/L		10/24/18 09:13	11/05/18 03:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X*	*50 - 120*	*10/24/18 09:13*	*10/29/18 01:49*	*50*
2-Fluorobiphenyl	*78*		*50 - 120*	*10/24/18 09:13*	*11/05/18 03:22*	*50*
2-Fluorophenol (Surr)	*0*	*X*	*30 - 120*	*10/24/18 09:13*	*10/29/18 01:49*	*50*
2-Fluorophenol (Surr)	*0*	*X*	*30 - 120*	*10/24/18 09:13*	*11/05/18 03:22*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*40 - 120*	*10/24/18 09:13*	*10/29/18 01:49*	*50*
2,4,6-Tribromophenol (Surr)	*80*		*40 - 120*	*10/24/18 09:13*	*11/05/18 03:22*	*50*
Nitrobenzene-d5 (Surr)	*0*	*X*	*45 - 120*	*10/24/18 09:13*	*10/29/18 01:49*	*50*
Nitrobenzene-d5 (Surr)	*0*	*X*	*45 - 120*	*10/24/18 09:13*	*11/05/18 03:22*	*50*
Terphenyl-d14 (Surr)	*83*		*10 - 150*	*10/24/18 09:13*	*10/29/18 01:49*	*50*
Terphenyl-d14 (Surr)	*81*		*10 - 150*	*10/24/18 09:13*	*11/05/18 03:22*	*50*
Phenol-d6 (Surr)	*0*	*X*	*35 - 120*	*10/24/18 09:13*	*10/29/18 01:49*	*50*
Phenol-d6 (Surr)	*0*	*X*	*35 - 120*	*10/24/18 09:13*	*11/05/18 03:22*	*50*

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Client Sample ID: PZ- 20
Date Collected: 10/18/18 12:43
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
1,2,4-Trichlorobenzene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
1,3-Dichlorobenzene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
1,3-Dichlorobenzene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
1,4-Dichlorobenzene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
1,4-Dichlorobenzene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
2,4,5-Trichlorophenol	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
2,4,5-Trichlorophenol	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
2,4,6-Trichlorophenol	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
2,4,6-Trichlorophenol	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
2,4-Dichlorophenol	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
2,4-Dichlorophenol	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
2,4-Dimethylphenol	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
2,4-Dimethylphenol	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
2,4-Dinitrophenol	ND		2000		ug/L		10/25/18 08:44	10/29/18 00:29	50
2,4-Dinitrophenol	ND		2000		ug/L		10/25/18 08:44	11/05/18 03:48	50
2,4-Dinitrotoluene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
2,4-Dinitrotoluene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
2,6-Dinitrotoluene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
2,6-Dinitrotoluene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
2-Chloronaphthalene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
2-Chloronaphthalene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
2-Chlorophenol	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
2-Chlorophenol	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
2-Methylnaphthalene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
2-Methylnaphthalene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
2-Methylphenol	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
2-Methylphenol	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
2-Nitroaniline	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
2-Nitroaniline	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
2-Nitrophenol	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
2-Nitrophenol	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
3,3'-Dichlorobenzidine	ND		2000		ug/L		10/25/18 08:44	10/29/18 00:29	50
3,3'-Dichlorobenzidine	ND		2000		ug/L		10/25/18 08:44	11/05/18 03:48	50
3-Nitroaniline	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
3-Nitroaniline	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
4,6-Dinitro-2-methylphenol	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
4,6-Dinitro-2-methylphenol	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
4-Bromophenyl phenyl ether	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
4-Bromophenyl phenyl ether	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
4-Chloro-3-methylphenol	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
4-Chloro-3-methylphenol	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
4-Chloroaniline	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
4-Chloroaniline	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
4-Chlorophenyl phenyl ether	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
4-Chlorophenyl phenyl ether	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
3-Methylphenol + 4-Methylphenol	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
3-Methylphenol + 4-Methylphenol	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
4-Nitroaniline	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50

Client Sample ID: PZ- 20
Date Collected: 10/18/18 12:43
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
4-Nitrophenol	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
4-Nitrophenol	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
Acenaphthene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Acenaphthene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Acenaphthylene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Acenaphthylene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Aniline	ND	*	490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Aniline	ND	*	490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Anthracene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Anthracene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Benzidine	ND	*	2000		ug/L		10/25/18 08:44	10/29/18 00:29	50
Benzidine	ND	*	2000		ug/L		10/25/18 08:44	11/05/18 03:48	50
Benzo[a]anthracene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Benzo[a]anthracene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Benzo[a]pyrene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Benzo[a]pyrene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Benzo[b]fluoranthene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Benzo[b]fluoranthene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Benzo[g,h,i]perylene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Benzo[g,h,i]perylene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Benzo[k]fluoranthene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Benzo[k]fluoranthene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Benzoic acid	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Benzoic acid	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
Benzyl alcohol	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Benzyl alcohol	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
Bis(2-chloroethoxy)methane	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Bis(2-chloroethoxy)methane	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Bis(2-chloroethyl)ether	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Bis(2-chloroethyl)ether	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Bis(2-ethylhexyl) phthalate	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Bis(2-ethylhexyl) phthalate	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
Butyl benzyl phthalate	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Butyl benzyl phthalate	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
Chrysene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Chrysene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Dibenz(a,h)anthracene	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Dibenz(a,h)anthracene	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
Dibenzofuran	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Dibenzofuran	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Diethyl phthalate	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Diethyl phthalate	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Dimethyl phthalate	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Dimethyl phthalate	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Di-n-butyl phthalate	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Di-n-butyl phthalate	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
Di-n-octyl phthalate	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Di-n-octyl phthalate	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50

Client Sample ID: PZ- 20
Date Collected: 10/18/18 12:43
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-3
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Fluoranthene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Fluorene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Fluorene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Hexachlorobenzene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Hexachlorobenzene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Hexachlorobutadiene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Hexachlorobutadiene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Hexachlorocyclopentadiene	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Hexachlorocyclopentadiene	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
Hexachloroethane	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Hexachloroethane	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Indeno[1,2,3-cd]pyrene	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Indeno[1,2,3-cd]pyrene	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
Isophorone	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Isophorone	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Naphthalene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Naphthalene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Nitrobenzene	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Nitrobenzene	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
N-Nitrosodi-n-propylamine	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
N-Nitrosodi-n-propylamine	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
N-Nitrosodiphenylamine	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
N-Nitrosodiphenylamine	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Pentachlorophenol	**7800**		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
Pentachlorophenol	**9200**		990		ug/L		10/25/18 08:44	11/05/18 03:48	50
Phenanthrene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Phenanthrene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Phenol	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Phenol	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
Pyrene	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
Pyrene	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
bis (2-chloroisopropyl) ether	ND		490		ug/L		10/25/18 08:44	10/29/18 00:29	50
bis (2-chloroisopropyl) ether	ND		490		ug/L		10/25/18 08:44	11/05/18 03:48	50
N-Nitrosodimethylamine	ND		990		ug/L		10/25/18 08:44	10/29/18 00:29	50
N-Nitrosodimethylamine	ND		990		ug/L		10/25/18 08:44	11/05/18 03:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*50 - 120*	*10/25/18 08:44*	*10/29/18 00:29*	*50*
2-Fluorobiphenyl	*75*		*50 - 120*	*10/25/18 08:44*	*11/05/18 03:48*	*50*
2-Fluorophenol (Surr)	*75*		*30 - 120*	*10/25/18 08:44*	*10/29/18 00:29*	*50*
2-Fluorophenol (Surr)	*0*	*X*	*30 - 120*	*10/25/18 08:44*	*11/05/18 03:48*	*50*
2,4,6-Tribromophenol (Surr)	*122*	*X*	*40 - 120*	*10/25/18 08:44*	*10/29/18 00:29*	*50*
2,4,6-Tribromophenol (Surr)	*87*		*40 - 120*	*10/25/18 08:44*	*11/05/18 03:48*	*50*
Nitrobenzene-d5 (Surr)	*79*		*45 - 120*	*10/25/18 08:44*	*10/29/18 00:29*	*50*
Nitrobenzene-d5 (Surr)	*0*	*X*	*45 - 120*	*10/25/18 08:44*	*11/05/18 03:48*	*50*
Terphenyl-d14 (Surr)	*93*		*10 - 150*	*10/25/18 08:44*	*10/29/18 00:29*	*50*
Terphenyl-d14 (Surr)	*79*		*10 - 150*	*10/25/18 08:44*	*11/05/18 03:48*	*50*
Phenol-d6 (Surr)	*0*	*X*	*35 - 120*	*10/25/18 08:44*	*10/29/18 00:29*	*50*
Phenol-d6 (Surr)	*0*	*X*	*35 - 120*	*10/25/18 08:44*	*11/05/18 03:48*	*50*

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Client Sample ID: PZ- 9
Date Collected: 10/18/18 14:48
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-4
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
1,3-Dichlorobenzene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
1,4-Dichlorobenzene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
2,4,5-Trichlorophenol	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
2,4,6-Trichlorophenol	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
2,4-Dichlorophenol	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
2,4-Dimethylphenol	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
2,4-Dinitrophenol	ND		41		ug/L		10/24/18 13:02	10/29/18 00:33	1
2,4-Dinitrotoluene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
2,6-Dinitrotoluene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
2-Chloronaphthalene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
2-Chlorophenol	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
2-Methylnaphthalene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
2-Methylphenol	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
2-Nitroaniline	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
2-Nitrophenol	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
3,3'-Dichlorobenzidine	ND		41		ug/L		10/24/18 13:02	10/29/18 00:33	1
3-Nitroaniline	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
4,6-Dinitro-2-methylphenol	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
4-Bromophenyl phenyl ether	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
4-Chloro-3-methylphenol	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
4-Chloroaniline	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
3-Methylphenol + 4-Methylphenol	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
4-Nitroaniline	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
4-Nitrophenol	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
Acenaphthene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Acenaphthylene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Aniline	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Anthracene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Benzidine	ND		41		ug/L		10/24/18 13:02	10/29/18 00:33	1
Benzo[a]anthracene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Benzo[a]pyrene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Benzo[b]fluoranthene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Benzo[g,h,i]perylene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Benzo[k]fluoranthene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Benzoic acid	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
Benzyl alcohol	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Bis(2-chloroethyl)ether	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Bis(2-ethylhexyl) phthalate	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
Butyl benzyl phthalate	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
Chrysene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Dibenz(a,h)anthracene	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
Dibenzofuran	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Diethyl phthalate	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Dimethyl phthalate	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Di-n-butyl phthalate	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
Di-n-octyl phthalate	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1

Client Sample ID: PZ- 9

Lab Sample ID: 440-222839-4

Date Collected: 10/18/18 14:48

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Fluorene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Hexachlorobenzene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Hexachlorobutadiene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Hexachlorocyclopentadiene	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
Hexachloroethane	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Indeno[1,2,3-cd]pyrene	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
Isophorone	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Naphthalene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Nitrobenzene	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
N-Nitrosodiphenylamine	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Pentachlorophenol	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1
Phenanthrene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Phenol	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
Pyrene	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
bis (2-chloroisopropyl) ether	ND		10		ug/L		10/24/18 13:02	10/29/18 00:33	1
N-Nitrosodimethylamine	ND		21		ug/L		10/24/18 13:02	10/29/18 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*50 - 120*	*10/24/18 13:02*	*10/29/18 00:33*	*1*
2-Fluorophenol (Surr)	*57*		*30 - 120*	*10/24/18 13:02*	*10/29/18 00:33*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*40 - 120*	*10/24/18 13:02*	*10/29/18 00:33*	*1*
Nitrobenzene-d5 (Surr)	*72*		*45 - 120*	*10/24/18 13:02*	*10/29/18 00:33*	*1*
Terphenyl-d14 (Surr)	*72*		*10 - 150*	*10/24/18 13:02*	*10/29/18 00:33*	*1*
Phenol-d6 (Surr)	*62*		*35 - 120*	*10/24/18 13:02*	*10/29/18 00:33*	*1*

Client Sample ID: PZ- 10

Lab Sample ID: 440-222839-5

Date Collected: 10/18/18 15:08

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
1,3-Dichlorobenzene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
1,4-Dichlorobenzene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
2,4,5-Trichlorophenol	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
2,4,6-Trichlorophenol	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
2,4-Dichlorophenol	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
2,4-Dimethylphenol	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
2,4-Dinitrophenol	ND		200		ug/L		10/24/18 13:02	10/29/18 01:45	5
2,4-Dinitrotoluene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
2,6-Dinitrotoluene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
2-Chloronaphthalene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
2-Chlorophenol	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
2-Methylnaphthalene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
2-Methylphenol	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
2-Nitroaniline	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
2-Nitrophenol	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
3,3'-Dichlorobenzidine	ND		200		ug/L		10/24/18 13:02	10/29/18 01:45	5

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Client Sample ID: PZ- 10
Date Collected: 10/18/18 15:08
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-5
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
4,6-Dinitro-2-methylphenol	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
4-Bromophenyl phenyl ether	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
4-Chloro-3-methylphenol	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
4-Chloroaniline	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
4-Chlorophenyl phenyl ether	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
3-Methylphenol + 4-Methylphenol	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
4-Nitroaniline	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
4-Nitrophenol	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Acenaphthene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Acenaphthylene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Aniline	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Anthracene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Benzidine	ND		200		ug/L		10/24/18 13:02	10/29/18 01:45	5
Benzo[a]anthracene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Benzo[a]pyrene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Benzo[b]fluoranthene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Benzo[g,h,i]perylene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Benzo[k]fluoranthene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Benzoic acid	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Benzyl alcohol	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Bis(2-chloroethoxy)methane	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Bis(2-chloroethyl)ether	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Bis(2-ethylhexyl) phthalate	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Butyl benzyl phthalate	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Chrysene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Dibenz(a,h)anthracene	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Dibenzofuran	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Diethyl phthalate	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Dimethyl phthalate	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Di-n-butyl phthalate	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Di-n-octyl phthalate	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Fluoranthene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Fluorene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Hexachlorobenzene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Hexachlorobutadiene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Hexachlorocyclopentadiene	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Hexachloroethane	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Indeno[1,2,3-cd]pyrene	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Isophorone	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Naphthalene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Nitrobenzene	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
N-Nitrosodi-n-propylamine	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
N-Nitrosodiphenylamine	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Pentachlorophenol	**1100**		100		ug/L		10/24/18 13:02	10/29/18 01:45	5
Phenanthrene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Phenol	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
Pyrene	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5
bis (2-chloroisopropyl) ether	ND		50		ug/L		10/24/18 13:02	10/29/18 01:45	5

Client Sample ID: PZ- 10

Lab Sample ID: 440-222839-5

Date Collected: 10/18/18 15:08

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		100		ug/L		10/24/18 13:02	10/29/18 01:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*50 - 120*	*10/24/18 13:02*	*10/29/18 01:45*	*5*
2-Fluorophenol (Surr)	*60*		*30 - 120*	*10/24/18 13:02*	*10/29/18 01:45*	*5*
2,4,6-Tribromophenol (Surr)	*99*		*40 - 120*	*10/24/18 13:02*	*10/29/18 01:45*	*5*
Nitrobenzene-d5 (Surr)	*76*		*45 - 120*	*10/24/18 13:02*	*10/29/18 01:45*	*5*
Terphenyl-d14 (Surr)	*105*		*10 - 150*	*10/24/18 13:02*	*10/29/18 01:45*	*5*
Phenol-d6 (Surr)	*67*		*35 - 120*	*10/24/18 13:02*	*10/29/18 01:45*	*5*

Client Sample ID: PZ- 11

Lab Sample ID: 440-222839-6

Date Collected: 10/18/18 15:17

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
1,2,4-Trichlorobenzene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
1,3-Dichlorobenzene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
1,3-Dichlorobenzene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
1,4-Dichlorobenzene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
1,4-Dichlorobenzene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
2,4,5-Trichlorophenol	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
2,4,5-Trichlorophenol	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
2,4,6-Trichlorophenol	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
2,4,6-Trichlorophenol	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
2,4-Dichlorophenol	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
2,4-Dichlorophenol	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
2,4-Dimethylphenol	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
2,4-Dimethylphenol	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
2,4-Dinitrophenol	ND		39		ug/L		10/24/18 13:02	10/28/18 22:47	1
2,4-Dinitrophenol	ND		39		ug/L		10/24/18 13:02	11/05/18 04:13	1
2,4-Dinitrotoluene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
2,4-Dinitrotoluene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
2,6-Dinitrotoluene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
2,6-Dinitrotoluene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
2-Chloronaphthalene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
2-Chloronaphthalene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
2-Chlorophenol	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
2-Chlorophenol	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
2-Methylnaphthalene	**13**		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
2-Methylnaphthalene	**14**		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
2-Methylphenol	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
2-Methylphenol	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
2-Nitroaniline	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
2-Nitroaniline	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
2-Nitrophenol	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
2-Nitrophenol	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
3,3'-Dichlorobenzidine	ND		39		ug/L		10/24/18 13:02	10/28/18 22:47	1
3,3'-Dichlorobenzidine	ND		39		ug/L		10/24/18 13:02	11/05/18 04:13	1

Client Sample ID: PZ- 11
Date Collected: 10/18/18 15:17
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
3-Nitroaniline	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
4-Bromophenyl phenyl ether	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
4-Bromophenyl phenyl ether	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
4-Chloro-3-methylphenol	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
4-Chloro-3-methylphenol	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
4-Chloroaniline	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
4-Chloroaniline	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
4-Chlorophenyl phenyl ether	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
4-Chlorophenyl phenyl ether	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
3-Methylphenol + 4-Methylphenol	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
3-Methylphenol + 4-Methylphenol	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
4-Nitroaniline	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
4-Nitroaniline	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
4-Nitrophenol	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
4-Nitrophenol	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
Acenaphthene	**12**		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Acenaphthene	**14**		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Acenaphthylene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Acenaphthylene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Aniline	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Aniline	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Anthracene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Anthracene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Benzidine	ND		39		ug/L		10/24/18 13:02	10/28/18 22:47	1
Benzidine	ND		39		ug/L		10/24/18 13:02	11/05/18 04:13	1
Benzo[a]anthracene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Benzo[a]anthracene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Benzo[a]pyrene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Benzo[a]pyrene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Benzo[b]fluoranthene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Benzo[b]fluoranthene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Benzo[g,h,i]perylene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Benzo[g,h,i]perylene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Benzo[k]fluoranthene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Benzo[k]fluoranthene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Benzoic acid	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
Benzoic acid	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
Benzyl alcohol	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
Benzyl alcohol	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
Bis(2-chloroethoxy)methane	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Bis(2-chloroethoxy)methane	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Bis(2-chloroethyl)ether	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Bis(2-chloroethyl)ether	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Bis(2-ethylhexyl) phthalate	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
Bis(2-ethylhexyl) phthalate	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
Butyl benzyl phthalate	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1

Client Sample ID: PZ- 11
Date Collected: 10/18/18 15:17
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
Chrysene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Chrysene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Dibenz(a,h)anthracene	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
Dibenz(a,h)anthracene	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
Dibenzofuran	**13**		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Dibenzofuran	**14**		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Diethyl phthalate	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Diethyl phthalate	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Dimethyl phthalate	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Dimethyl phthalate	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Di-n-butyl phthalate	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
Di-n-butyl phthalate	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
Di-n-octyl phthalate	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
Di-n-octyl phthalate	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
Fluoranthene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Fluoranthene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Fluorene	**11**		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Fluorene	**9.9**		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Hexachlorobenzene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Hexachlorobenzene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Hexachlorobutadiene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Hexachlorobutadiene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Hexachlorocyclopentadiene	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
Hexachlorocyclopentadiene	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
Hexachloroethane	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Hexachloroethane	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Indeno[1,2,3-cd]pyrene	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
Indeno[1,2,3-cd]pyrene	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
Isophorone	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Isophorone	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Naphthalene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Naphthalene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Nitrobenzene	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
Nitrobenzene	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1
N-Nitrosodi-n-propylamine	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
N-Nitrosodi-n-propylamine	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
N-Nitrosodiphenylamine	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
N-Nitrosodiphenylamine	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Pentachlorophenol	**460**		20		ug/L		10/24/18 13:02	10/28/18 22:47	1
Phenanthrene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Phenanthrene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Phenol	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Phenol	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
Pyrene	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
Pyrene	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
bis (2-chloroisopropyl) ether	ND		9.9		ug/L		10/24/18 13:02	10/28/18 22:47	1
bis (2-chloroisopropyl) ether	ND		9.9		ug/L		10/24/18 13:02	11/05/18 04:13	1
N-Nitrosodimethylamine	ND		20		ug/L		10/24/18 13:02	10/28/18 22:47	1

Client Sample ID: PZ- 11

Date Collected: 10/18/18 15:17
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-6
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		20		ug/L		10/24/18 13:02	11/05/18 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*50 - 120*	*10/24/18 13:02*	*10/28/18 22:47*	*1*
2-Fluorobiphenyl	*83*		*50 - 120*	*10/24/18 13:02*	*11/05/18 04:13*	*1*
2-Fluorophenol (Surr)	*55*		*30 - 120*	*10/24/18 13:02*	*10/28/18 22:47*	*1*
2-Fluorophenol (Surr)	*59*		*30 - 120*	*10/24/18 13:02*	*11/05/18 04:13*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*40 - 120*	*10/24/18 13:02*	*10/28/18 22:47*	*1*
2,4,6-Tribromophenol (Surr)	*118*		*40 - 120*	*10/24/18 13:02*	*11/05/18 04:13*	*1*
Nitrobenzene-d5 (Surr)	*67*		*45 - 120*	*10/24/18 13:02*	*10/28/18 22:47*	*1*
Nitrobenzene-d5 (Surr)	*71*		*45 - 120*	*10/24/18 13:02*	*11/05/18 04:13*	*1*
Terphenyl-d14 (Surr)	*105*		*10 - 150*	*10/24/18 13:02*	*10/28/18 22:47*	*1*
Terphenyl-d14 (Surr)	*103*		*10 - 150*	*10/24/18 13:02*	*11/05/18 04:13*	*1*
Phenol-d6 (Surr)	*65*		*35 - 120*	*10/24/18 13:02*	*10/28/18 22:47*	*1*
Phenol-d6 (Surr)	*63*		*35 - 120*	*10/24/18 13:02*	*11/05/18 04:13*	*1*

Client Sample ID: PZ- 13

Date Collected: 10/18/18 15:30
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
1,3-Dichlorobenzene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
1,4-Dichlorobenzene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
2,4,5-Trichlorophenol	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
2,4,6-Trichlorophenol	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
2,4-Dichlorophenol	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
2,4-Dimethylphenol	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
2,4-Dinitrophenol	ND		2000		ug/L		10/24/18 13:02	10/29/18 02:11	50
2,4-Dinitrotoluene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
2,6-Dinitrotoluene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
2-Chloronaphthalene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
2-Chlorophenol	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
2-Methylnaphthalene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
2-Methylphenol	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
2-Nitroaniline	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
2-Nitrophenol	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
3,3'-Dichlorobenzidine	ND		2000		ug/L		10/24/18 13:02	10/29/18 02:11	50
3-Nitroaniline	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
4,6-Dinitro-2-methylphenol	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
4-Bromophenyl phenyl ether	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
4-Chloro-3-methylphenol	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
4-Chloroaniline	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
4-Chlorophenyl phenyl ether	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
3-Methylphenol + 4-Methylphenol	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
4-Nitroaniline	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
4-Nitrophenol	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Acenaphthene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Acenaphthylene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50

Client Sample ID: PZ- 13
Date Collected: 10/18/18 15:30
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-7
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Anthracene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Benzidine	ND		2000		ug/L		10/24/18 13:02	10/29/18 02:11	50
Benzo[a]anthracene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Benzo[a]pyrene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Benzo[b]fluoranthene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Benzo[g,h,i]perylene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Benzo[k]fluoranthene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Benzoic acid	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Benzyl alcohol	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Bis(2-chloroethoxy)methane	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Bis(2-chloroethyl)ether	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Bis(2-ethylhexyl) phthalate	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Butyl benzyl phthalate	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Chrysene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Dibenz(a,h)anthracene	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Dibenzofuran	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Diethyl phthalate	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Dimethyl phthalate	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Di-n-butyl phthalate	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Di-n-octyl phthalate	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Fluoranthene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Fluorene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Hexachlorobenzene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Hexachlorobutadiene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Hexachlorocyclopentadiene	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Hexachloroethane	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Indeno[1,2,3-cd]pyrene	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Isophorone	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Naphthalene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Nitrobenzene	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
N-Nitrosodi-n-propylamine	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
N-Nitrosodiphenylamine	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Pentachlorophenol	**3400**		980		ug/L		10/24/18 13:02	10/29/18 02:11	50
Phenanthrene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Phenol	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
Pyrene	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
bis (2-chloroisopropyl) ether	ND		490		ug/L		10/24/18 13:02	10/29/18 02:11	50
N-Nitrosodimethylamine	ND		980		ug/L		10/24/18 13:02	10/29/18 02:11	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*50 - 120*	*10/24/18 13:02*	*10/29/18 02:11*	*50*
2-Fluorophenol (Surr)	*0*	*X*	*30 - 120*	*10/24/18 13:02*	*10/29/18 02:11*	*50*
2,4,6-Tribromophenol (Surr)	*148*	*X*	*40 - 120*	*10/24/18 13:02*	*10/29/18 02:11*	*50*
Nitrobenzene-d5 (Surr)	*90*		*45 - 120*	*10/24/18 13:02*	*10/29/18 02:11*	*50*
Terphenyl-d14 (Surr)	*102*		*10 - 150*	*10/24/18 13:02*	*10/29/18 02:11*	*50*
Phenol-d6 (Surr)	*0*	*X*	*35 - 120*	*10/24/18 13:02*	*10/29/18 02:11*	*50*

Client Sample ID: PZ- 12 DUP
Date Collected: 10/18/18 15:40
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-8
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
1,3-Dichlorobenzene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
1,4-Dichlorobenzene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
2,4,5-Trichlorophenol	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
2,4,6-Trichlorophenol	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
2,4-Dichlorophenol	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
2,4-Dimethylphenol	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
2,4-Dinitrophenol	ND		2000		ug/L		10/25/18 08:44	10/29/18 00:54	50
2,4-Dinitrotoluene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
2,6-Dinitrotoluene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
2-Chloronaphthalene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
2-Chlorophenol	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
2-Methylnaphthalene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
2-Methylphenol	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
2-Nitroaniline	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
2-Nitrophenol	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
3,3'-Dichlorobenzidine	ND		2000		ug/L		10/25/18 08:44	10/29/18 00:54	50
3-Nitroaniline	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
4,6-Dinitro-2-methylphenol	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
4-Bromophenyl phenyl ether	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
4-Chloro-3-methylphenol	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
4-Chloroaniline	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
4-Chlorophenyl phenyl ether	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
3-Methylphenol + 4-Methylphenol	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
4-Nitroaniline	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
4-Nitrophenol	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Acenaphthene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Acenaphthylene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Aniline	ND	*	500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Anthracene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Benzidine	ND	*	2000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Benzo[a]anthracene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Benzo[a]pyrene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Benzo[b]fluoranthene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Benzo[g,h,i]perylene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Benzo[k]fluoranthene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Benzoic acid	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Benzyl alcohol	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Bis(2-chloroethoxy)methane	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Bis(2-chloroethyl)ether	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Bis(2-ethylhexyl) phthalate	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Butyl benzyl phthalate	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Chrysene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Dibenz(a,h)anthracene	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Dibenzofuran	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Diethyl phthalate	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Dimethyl phthalate	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Di-n-butyl phthalate	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Di-n-octyl phthalate	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50

Client Sample ID: PZ- 12 DUP

Lab Sample ID: 440-222839-8

Date Collected: 10/18/18 15:40

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Fluorene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Hexachlorobenzene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Hexachlorobutadiene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Hexachlorocyclopentadiene	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Hexachloroethane	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Indeno[1,2,3-cd]pyrene	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Isophorone	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Naphthalene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Nitrobenzene	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
N-Nitrosodi-n-propylamine	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
N-Nitrosodiphenylamine	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Pentachlorophenol	**3000**		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50
Phenanthrene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Phenol	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
Pyrene	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
bis (2-chloroisopropyl) ether	ND		500		ug/L		10/25/18 08:44	10/29/18 00:54	50
N-Nitrosodimethylamine	ND		1000		ug/L		10/25/18 08:44	10/29/18 00:54	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*50 - 120*	*10/25/18 08:44*	*10/29/18 00:54*	*50*
2-Fluorophenol (Surr)	*0*	*X*	*30 - 120*	*10/25/18 08:44*	*10/29/18 00:54*	*50*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*40 - 120*	*10/25/18 08:44*	*10/29/18 00:54*	*50*
Nitrobenzene-d5 (Surr)	*77*		*45 - 120*	*10/25/18 08:44*	*10/29/18 00:54*	*50*
Terphenyl-d14 (Surr)	*97*		*10 - 150*	*10/25/18 08:44*	*10/29/18 00:54*	*50*
Phenol-d6 (Surr)	*0*	*X*	*35 - 120*	*10/25/18 08:44*	*10/29/18 00:54*	*50*

Client Sample ID: PZ- 14

Lab Sample ID: 440-222839-9

Date Collected: 10/18/18 15:52

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
1,3-Dichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
1,4-Dichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
2,4,5-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
2,4,6-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
2,4-Dichlorophenol	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
2,4-Dimethylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
2,4-Dinitrophenol	ND		40		ug/L		10/25/18 08:44	10/28/18 21:30	1
2,4-Dinitrotoluene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
2,6-Dinitrotoluene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
2-Chloronaphthalene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
2-Chlorophenol	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
2-Methylnaphthalene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
2-Methylphenol	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
2-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
2-Nitrophenol	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
3,3'-Dichlorobenzidine	ND		40		ug/L		10/25/18 08:44	10/28/18 21:30	1

Client Sample ID: PZ- 14
Date Collected: 10/18/18 15:52
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-9
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
4-Bromophenyl phenyl ether	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
4-Chloro-3-methylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
4-Chloroaniline	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
3-Methylphenol + 4-Methylphenol	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
4-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
4-Nitrophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Acenaphthene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Acenaphthylene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Aniline	ND	*	10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Anthracene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Benzidine	ND	*	40		ug/L		10/25/18 08:44	10/28/18 21:30	1
Benzo[a]anthracene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Benzo[a]pyrene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Benzo[b]fluoranthene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Benzo[g,h,i]perylene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Benzo[k]fluoranthene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Benzoic acid	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Benzyl alcohol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Bis(2-chloroethyl)ether	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Bis(2-ethylhexyl) phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Butyl benzyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Chrysene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Dibenz(a,h)anthracene	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Dibenzofuran	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Diethyl phthalate	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Dimethyl phthalate	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Di-n-butyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Di-n-octyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Fluoranthene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Fluorene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Hexachlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Hexachlorobutadiene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Hexachlorocyclopentadiene	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Hexachloroethane	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Indeno[1,2,3-cd]pyrene	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Isophorone	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Naphthalene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Nitrobenzene	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
N-Nitrosodiphenylamine	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Pentachlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1
Phenanthrene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Phenol	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
Pyrene	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1
bis (2-chloroisopropyl) ether	ND		10		ug/L		10/25/18 08:44	10/28/18 21:30	1

Client Sample ID: PZ- 14

Lab Sample ID: 440-222839-9

Date Collected: 10/18/18 15:52

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	ND		20		ug/L		10/25/18 08:44	10/28/18 21:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*85*		*50 - 120*	*10/25/18 08:44*	*10/28/18 21:30*	*1*
2-Fluorophenol (Surr)	*66*		*30 - 120*	*10/25/18 08:44*	*10/28/18 21:30*	*1*
2,4,6-Tribromophenol (Surr)	*97*		*40 - 120*	*10/25/18 08:44*	*10/28/18 21:30*	*1*
Nitrobenzene-d5 (Surr)	*86*		*45 - 120*	*10/25/18 08:44*	*10/28/18 21:30*	*1*
Terphenyl-d14 (Surr)	*101*		*10 - 150*	*10/25/18 08:44*	*10/28/18 21:30*	*1*
Phenol-d6 (Surr)	*76*		*35 - 120*	*10/25/18 08:44*	*10/28/18 21:30*	*1*

Client Sample ID: PZ- 15

Lab Sample ID: 440-222839-10

Date Collected: 10/18/18 16:05

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
1,3-Dichlorobenzene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
1,4-Dichlorobenzene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
2,4,5-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
2,4,6-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
2,4-Dichlorophenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
2,4-Dimethylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
2,4-Dinitrophenol	ND		39		ug/L		10/25/18 08:44	10/28/18 21:56	1
2,4-Dinitrotoluene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
2,6-Dinitrotoluene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
2-Chloronaphthalene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
2-Chlorophenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
2-Methylnaphthalene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
2-Methylphenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
2-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
2-Nitrophenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
3,3'-Dichlorobenzidine	ND		39		ug/L		10/25/18 08:44	10/28/18 21:56	1
3-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
4-Bromophenyl phenyl ether	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
4-Chloro-3-methylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
4-Chloroaniline	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
4-Chlorophenyl phenyl ether	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
3-Methylphenol + 4-Methylphenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
4-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
4-Nitrophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Acenaphthene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Acenaphthylene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Aniline	ND	*	9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Anthracene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Benzidine	ND	*	39		ug/L		10/25/18 08:44	10/28/18 21:56	1
Benzo[a]anthracene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Benzo[a]pyrene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Benzo[b]fluoranthene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1

Client Sample ID: PZ- 15

Date Collected: 10/18/18 16:05
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-10
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Benzo[k]fluoranthene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Benzoic acid	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Benzyl alcohol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Bis(2-chloroethoxy)methane	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Bis(2-chloroethyl)ether	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Bis(2-ethylhexyl) phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Butyl benzyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Chrysene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Dibenz(a,h)anthracene	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Dibenzofuran	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Diethyl phthalate	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Dimethyl phthalate	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Di-n-butyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Di-n-octyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Fluoranthene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Fluorene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Hexachlorobenzene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Hexachlorobutadiene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Hexachlorocyclopentadiene	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Hexachloroethane	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Indeno[1,2,3-cd]pyrene	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Isophorone	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Naphthalene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Nitrobenzene	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
N-Nitrosodi-n-propylamine	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
N-Nitrosodiphenylamine	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Pentachlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1
Phenanthrene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Phenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
Pyrene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
bis (2-chloroisopropyl) ether	ND		9.9		ug/L		10/25/18 08:44	10/28/18 21:56	1
N-Nitrosodimethylamine	ND		20		ug/L		10/25/18 08:44	10/28/18 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*50 - 120*	*10/25/18 08:44*	*10/28/18 21:56*	*1*
2-Fluorophenol (Surr)	*74*		*30 - 120*	*10/25/18 08:44*	*10/28/18 21:56*	*1*
2,4,6-Tribromophenol (Surr)	*87*		*40 - 120*	*10/25/18 08:44*	*10/28/18 21:56*	*1*
Nitrobenzene-d5 (Surr)	*87*		*45 - 120*	*10/25/18 08:44*	*10/28/18 21:56*	*1*
Terphenyl-d14 (Surr)	*92*		*10 - 150*	*10/25/18 08:44*	*10/28/18 21:56*	*1*
Phenol-d6 (Surr)	*82*		*35 - 120*	*10/25/18 08:44*	*10/28/18 21:56*	*1*

Client Sample ID: PZ- 16

Date Collected: 10/18/18 16:18
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-11
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
1,3-Dichlorobenzene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1

Client Sample ID: PZ- 16
Date Collected: 10/18/18 16:18
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-11
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
2,4,5-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
2,4,6-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
2,4-Dichlorophenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
2,4-Dimethylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
2,4-Dinitrophenol	ND		39		ug/L		10/25/18 08:44	10/28/18 22:21	1
2,4-Dinitrotoluene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
2,6-Dinitrotoluene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
2-Chloronaphthalene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
2-Chlorophenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
2-Methylnaphthalene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
2-Methylphenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
2-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
2-Nitrophenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
3,3'-Dichlorobenzidine	ND		39		ug/L		10/25/18 08:44	10/28/18 22:21	1
3-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
4-Bromophenyl phenyl ether	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
4-Chloro-3-methylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
4-Chloroaniline	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
4-Chlorophenyl phenyl ether	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
3-Methylphenol + 4-Methylphenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
4-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
4-Nitrophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Acenaphthene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Acenaphthylene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Aniline	ND	*	9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Anthracene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Benzidine	ND	*	39		ug/L		10/25/18 08:44	10/28/18 22:21	1
Benzo[a]anthracene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Benzo[a]pyrene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Benzo[b]fluoranthene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Benzo[g,h,i]perylene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Benzo[k]fluoranthene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Benzoic acid	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Benzyl alcohol	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Bis(2-chloroethoxy)methane	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Bis(2-chloroethyl)ether	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Bis(2-ethylhexyl) phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Butyl benzyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Chrysene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Dibenz(a,h)anthracene	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Dibenzofuran	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Diethyl phthalate	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Dimethyl phthalate	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Di-n-butyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Di-n-octyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Fluoranthene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Fluorene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1

Client Sample ID: PZ- 16

Date Collected: 10/18/18 16:18
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-11
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Hexachlorobutadiene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Hexachlorocyclopentadiene	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Hexachloroethane	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Indeno[1,2,3-cd]pyrene	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Isophorone	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Naphthalene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Nitrobenzene	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
N-Nitrosodi-n-propylamine	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
N-Nitrosodiphenylamine	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Pentachlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1
Phenanthrene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Phenol	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
Pyrene	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
bis (2-chloroisopropyl) ether	ND		9.9		ug/L		10/25/18 08:44	10/28/18 22:21	1
N-Nitrosodimethylamine	ND		20		ug/L		10/25/18 08:44	10/28/18 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*50 - 120*	*10/25/18 08:44*	*10/28/18 22:21*	*1*
2-Fluorophenol (Surr)	*48*		*30 - 120*	*10/25/18 08:44*	*10/28/18 22:21*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*40 - 120*	*10/25/18 08:44*	*10/28/18 22:21*	*1*
Nitrobenzene-d5 (Surr)	*57*		*45 - 120*	*10/25/18 08:44*	*10/28/18 22:21*	*1*
Terphenyl-d14 (Surr)	*90*		*10 - 150*	*10/25/18 08:44*	*10/28/18 22:21*	*1*
Phenol-d6 (Surr)	*56*		*35 - 120*	*10/25/18 08:44*	*10/28/18 22:21*	*1*

Client Sample ID: PZ- 17

Date Collected: 10/18/18 16:34
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-12
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
1,3-Dichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
1,4-Dichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
2,4,5-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
2,4,6-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
2,4-Dichlorophenol	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
2,4-Dimethylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
2,4-Dinitrophenol	ND		40		ug/L		10/25/18 08:44	10/28/18 23:38	1
2,4-Dinitrotoluene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
2,6-Dinitrotoluene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
2-Chloronaphthalene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
2-Chlorophenol	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
2-Methylnaphthalene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
2-Methylphenol	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
2-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
2-Nitrophenol	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
3,3'-Dichlorobenzidine	ND		40		ug/L		10/25/18 08:44	10/28/18 23:38	1
3-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1

Client Sample ID: PZ- 17
Date Collected: 10/18/18 16:34
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-12
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
4-Chloro-3-methylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
4-Chloroaniline	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
3-Methylphenol + 4-Methylphenol	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
4-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
4-Nitrophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Acenaphthene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Acenaphthylene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Aniline	ND	*	10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Anthracene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Benzidine	ND	*	40		ug/L		10/25/18 08:44	10/28/18 23:38	1
Benzo[a]anthracene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Benzo[a]pyrene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Benzo[b]fluoranthene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Benzo[g,h,i]perylene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Benzo[k]fluoranthene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Benzoic acid	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Benzyl alcohol	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Bis(2-chloroethyl)ether	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Bis(2-ethylhexyl) phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Butyl benzyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Chrysene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Dibenz(a,h)anthracene	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Dibenzofuran	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Diethyl phthalate	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Dimethyl phthalate	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Di-n-butyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Di-n-octyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Fluoranthene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Fluorene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Hexachlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Hexachlorobutadiene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Hexachlorocyclopentadiene	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Hexachloroethane	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Indeno[1,2,3-cd]pyrene	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Isophorone	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Naphthalene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Nitrobenzene	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
N-Nitrosodiphenylamine	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Pentachlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1
Phenanthrene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Phenol	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
Pyrene	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
bis (2-chloroisopropyl) ether	ND		10		ug/L		10/25/18 08:44	10/28/18 23:38	1
N-Nitrosodimethylamine	ND		20		ug/L		10/25/18 08:44	10/28/18 23:38	1

Client Sample ID: PZ- 17

Date Collected: 10/18/18 16:34
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-12
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*50 - 120*	*10/25/18 08:44*	*10/28/18 23:38*	*1*
2-Fluorophenol (Surr)	*64*		*30 - 120*	*10/25/18 08:44*	*10/28/18 23:38*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*40 - 120*	*10/25/18 08:44*	*10/28/18 23:38*	*1*
Nitrobenzene-d5 (Surr)	*75*		*45 - 120*	*10/25/18 08:44*	*10/28/18 23:38*	*1*
Terphenyl-d14 (Surr)	*84*		*10 - 150*	*10/25/18 08:44*	*10/28/18 23:38*	*1*
Phenol-d6 (Surr)	*74*		*35 - 120*	*10/25/18 08:44*	*10/28/18 23:38*	*1*

Client Sample ID: PZ- 18

Date Collected: 10/18/18 16:49
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-13
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
1,3-Dichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
1,4-Dichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
2,4,5-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
2,4,6-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
2,4-Dichlorophenol	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
2,4-Dimethylphenol	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
2,4-Dinitrophenol	ND		41		ug/L		10/25/18 08:44	10/29/18 00:03	1
2,4-Dinitrotoluene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
2,6-Dinitrotoluene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
2-Chloronaphthalene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
2-Chlorophenol	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
2-Methylnaphthalene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
2-Methylphenol	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
2-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
2-Nitrophenol	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
3,3'-Dichlorobenzidine	ND		41		ug/L		10/25/18 08:44	10/29/18 00:03	1
3-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
4-Bromophenyl phenyl ether	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
4-Chloro-3-methylphenol	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
4-Chloroaniline	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
3-Methylphenol + 4-Methylphenol	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
4-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
4-Nitrophenol	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
Acenaphthene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Acenaphthylene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Aniline	ND	*	10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Anthracene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Benzidine	ND	*	41		ug/L		10/25/18 08:44	10/29/18 00:03	1
Benzo[a]anthracene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Benzo[a]pyrene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Benzo[b]fluoranthene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Benzo[g,h,i]perylene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Benzo[k]fluoranthene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Benzoic acid	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1

Client Sample ID: PZ- 18

Lab Sample ID: 440-222839-13

Date Collected: 10/18/18 16:49

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Bis(2-chloroethyl)ether	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Bis(2-ethylhexyl) phthalate	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
Butyl benzyl phthalate	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
Chrysene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Dibenz(a,h)anthracene	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
Dibenzofuran	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Diethyl phthalate	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Dimethyl phthalate	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Di-n-butyl phthalate	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
Di-n-octyl phthalate	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
Fluoranthene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Fluorene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Hexachlorobenzene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Hexachlorobutadiene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Hexachlorocyclopentadiene	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
Hexachloroethane	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Indeno[1,2,3-cd]pyrene	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
Isophorone	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Naphthalene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Nitrobenzene	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
N-Nitrosodiphenylamine	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Pentachlorophenol	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1
Phenanthrene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Phenol	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
Pyrene	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
bis (2-chloroisopropyl) ether	ND		10		ug/L		10/25/18 08:44	10/29/18 00:03	1
N-Nitrosodimethylamine	ND		20		ug/L		10/25/18 08:44	10/29/18 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*50 - 120*	*10/25/18 08:44*	*10/29/18 00:03*	*1*
2-Fluorophenol (Surr)	*65*		*30 - 120*	*10/25/18 08:44*	*10/29/18 00:03*	*1*
2,4,6-Tribromophenol (Surr)	*92*		*40 - 120*	*10/25/18 08:44*	*10/29/18 00:03*	*1*
Nitrobenzene-d5 (Surr)	*73*		*45 - 120*	*10/25/18 08:44*	*10/29/18 00:03*	*1*
Terphenyl-d14 (Surr)	*89*		*10 - 150*	*10/25/18 08:44*	*10/29/18 00:03*	*1*
Phenol-d6 (Surr)	*71*		*35 - 120*	*10/25/18 08:44*	*10/29/18 00:03*	*1*

Client Sample ID: PZ- 19 DUP

Lab Sample ID: 440-222839-14

Date Collected: 10/18/18 17:13

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
1,3-Dichlorobenzene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
1,4-Dichlorobenzene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
2,4,5-Trichlorophenol	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
2,4,6-Trichlorophenol	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5

Client Sample ID: PZ- 19 DUP
Date Collected: 10/18/18 17:13
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-14
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
2,4-Dimethylphenol	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
2,4-Dinitrophenol	ND		200		ug/L		10/25/18 08:44	10/29/18 01:20	5
2,4-Dinitrotoluene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
2,6-Dinitrotoluene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
2-Chloronaphthalene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
2-Chlorophenol	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
2-Methylnaphthalene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
2-Methylphenol	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
2-Nitroaniline	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
2-Nitrophenol	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
3,3'-Dichlorobenzidine	ND		200		ug/L		10/25/18 08:44	10/29/18 01:20	5
3-Nitroaniline	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
4,6-Dinitro-2-methylphenol	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
4-Bromophenyl phenyl ether	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
4-Chloro-3-methylphenol	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
4-Chloroaniline	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
4-Chlorophenyl phenyl ether	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
3-Methylphenol + 4-Methylphenol	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
4-Nitroaniline	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
4-Nitrophenol	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
Acenaphthene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Acenaphthylene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Aniline	ND	*	50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Anthracene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Benzidine	ND	*	200		ug/L		10/25/18 08:44	10/29/18 01:20	5
Benzo[a]anthracene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Benzo[a]pyrene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Benzo[b]fluoranthene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Benzo[g,h,i]perylene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Benzo[k]fluoranthene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Benzoic acid	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
Benzyl alcohol	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
Bis(2-chloroethoxy)methane	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Bis(2-chloroethyl)ether	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Bis(2-ethylhexyl) phthalate	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
Butyl benzyl phthalate	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
Chrysene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Dibenz(a,h)anthracene	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
Dibenzofuran	**59**		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Diethyl phthalate	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Dimethyl phthalate	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Di-n-butyl phthalate	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
Di-n-octyl phthalate	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
Fluoranthene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Fluorene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Hexachlorobenzene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Hexachlorobutadiene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Hexachlorocyclopentadiene	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5

Client Sample ID: PZ- 19 DUP

Lab Sample ID: 440-222839-14

Date Collected: 10/18/18 17:13

Matrix: Water

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Indeno[1,2,3-cd]pyrene	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
Isophorone	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Naphthalene	**150**		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Nitrobenzene	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
N-Nitrosodi-n-propylamine	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
N-Nitrosodiphenylamine	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Pentachlorophenol	**920**		100		ug/L		10/25/18 08:44	10/29/18 01:20	5
Phenanthrene	**69**		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Phenol	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
Pyrene	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
bis (2-chloroisopropyl) ether	ND		50		ug/L		10/25/18 08:44	10/29/18 01:20	5
N-Nitrosodimethylamine	ND		100		ug/L		10/25/18 08:44	10/29/18 01:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*50 - 120*	*10/25/18 08:44*	*10/29/18 01:20*	*5*
2-Fluorophenol (Surr)	*81*		*30 - 120*	*10/25/18 08:44*	*10/29/18 01:20*	*5*
2,4,6-Tribromophenol (Surr)	*89*		*40 - 120*	*10/25/18 08:44*	*10/29/18 01:20*	*5*
Nitrobenzene-d5 (Surr)	*83*		*45 - 120*	*10/25/18 08:44*	*10/29/18 01:20*	*5*
Terphenyl-d14 (Surr)	*90*		*10 - 150*	*10/25/18 08:44*	*10/29/18 01:20*	*5*
Phenol-d6 (Surr)	*78*		*35 - 120*	*10/25/18 08:44*	*10/29/18 01:20*	*5*

Client Sample ID: PZ- 12-7'

Lab Sample ID: 440-222839-15

Date Collected: 10/16/18 13:02

Matrix: Solid

Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		350		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
2-Methylnaphthalene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
2-Methylphenol	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
4-Chloro-3-methylphenol	ND		400		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Acenaphthene	ND		350		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Acenaphthylene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Anthracene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Benzo[a]anthracene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Benzo[a]pyrene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Benzo[b]fluoranthene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Benzo[k]fluoranthene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Carbazole	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Chrysene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Dibenz(a,h)anthracene	ND		420		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Dibenzofuran	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Fluoranthene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Fluorene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Naphthalene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Pentachlorophenol	ND		830		ug/Kg		10/23/18 12:35	10/24/18 18:06	1

Client Sample ID: PZ- 12-7'

Lab Sample ID: 440-222839-15
Matrix: Solid
Date Collected: 10/16/18 13:02
Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Phenol	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Pyrene	ND		330		ug/Kg		10/23/18 12:35	10/24/18 18:06	1
Pyridine	ND		340		ug/Kg		10/23/18 12:35	10/24/18 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*42 - 113*	*10/23/18 12:35*	*10/24/18 18:06*	*1*
2-Fluorophenol (Surr)	*52*		*18 - 138*	*10/23/18 12:35*	*10/24/18 18:06*	*1*
Nitrobenzene-d5 (Surr)	*23*	*X*	*39 - 104*	*10/23/18 12:35*	*10/24/18 18:06*	*1*
Terphenyl-d14 (Surr)	*48*		*43 - 125*	*10/23/18 12:35*	*10/24/18 18:06*	*1*
2,4,6-Tribromophenol (Surr)	*36*		*10 - 147*	*10/23/18 12:35*	*10/24/18 18:06*	*1*
Phenol-d6 (Surr)	*47*		*37 - 125*	*10/23/18 12:35*	*10/24/18 18:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	10		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Arsenic	ND		3.0		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Barium	**87**		1.5		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Beryllium	**0.73**		0.50		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Cadmium	ND		0.50		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Chromium	**31**		1.0		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Cobalt	**9.6**		1.0		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Copper	**26**		2.0		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Lead	**8.6**		2.0		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Molybdenum	ND		2.0		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Nickel	**16**		2.0		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Selenium	ND		3.0		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Thallium	ND		10		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Vanadium	**41**		1.0		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Zinc	**50**		5.0		mg/Kg		10/23/18 15:07	10/24/18 17:57	5
Silver	ND		1.5		mg/Kg		10/23/18 15:07	10/24/18 17:57	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.034**		0.020		mg/Kg		10/25/18 16:03	10/25/18 17:53	1

Client Sample ID: PZ- 19-10'

Lab Sample ID: 440-222839-16
Matrix: Solid
Date Collected: 10/17/18 10:45
Date Received: 10/23/18 09:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**5700**		3500		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
2-Methylnaphthalene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
2-Methylphenol	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
3-Methylphenol + 4-Methylphenol	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
4-Chloro-3-methylphenol	ND		4000		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Acenaphthene	**5900**		3500		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Acenaphthylene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Anthracene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Client Sample ID: PZ- 19-10'
Date Collected: 10/17/18 10:45
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-16
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Benzo[a]pyrene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Benzo[b]fluoranthene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Benzo[g,h,i]perylene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Benzo[k]fluoranthene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Carbazole	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Chrysene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Dibenz(a,h)anthracene	ND		4200		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Dibenzofuran	**4200**		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Fluoranthene	**3300**		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Fluorene	**5500**		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Indeno[1,2,3-cd]pyrene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Naphthalene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Pentachlorophenol	ND		8300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Phenanthrene	**15000**		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Phenol	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Pyrene	ND		3300		ug/Kg		10/23/18 12:35	10/29/18 00:58	10
Pyridine	ND		3400		ug/Kg		10/23/18 12:35	10/29/18 00:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*42 - 113*	*10/23/18 12:35*	*10/29/18 00:58*	*10*
2-Fluorophenol (Surr)	*66*		*18 - 138*	*10/23/18 12:35*	*10/29/18 00:58*	*10*
Nitrobenzene-d5 (Surr)	*63*		*39 - 104*	*10/23/18 12:35*	*10/29/18 00:58*	*10*
Terphenyl-d14 (Surr)	*91*		*43 - 125*	*10/23/18 12:35*	*10/29/18 00:58*	*10*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 147*	*10/23/18 12:35*	*10/29/18 00:58*	*10*
Phenol-d6 (Surr)	*44*		*37 - 125*	*10/23/18 12:35*	*10/29/18 00:58*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Arsenic	ND		3.0		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Barium	**55**		1.5		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Beryllium	ND		0.50		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Cadmium	ND		0.50		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Chromium	**9.6**		1.0		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Cobalt	**3.8**		1.0		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Copper	**9.1**		2.0		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Lead	**2.7**		2.0		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Molybdenum	ND		2.0		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Nickel	**5.6**		2.0		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Selenium	ND		3.0		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Thallium	ND		10		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Vanadium	**18**		1.0		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Zinc	**16**		5.0		mg/Kg		10/23/18 15:07	10/24/18 18:09	5
Silver	ND		1.5		mg/Kg		10/23/18 15:07	10/24/18 18:09	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.093**		0.020		mg/Kg		10/25/18 16:03	10/25/18 17:58	1

Client Sample ID: PZ- 20-7'

Date Collected: 10/17/18 11:30
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-17

Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**6400**		1700		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
2-Methylnaphthalene	**9500**		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
2-Methylphenol	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
3-Methylphenol + 4-Methylphenol	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
4-Chloro-3-methylphenol	ND		2000		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Acenaphthene	**3900**		1700		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Acenaphthylene	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Anthracene	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Benzo[a]anthracene	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Benzo[a]pyrene	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Benzo[b]fluoranthene	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Benzo[g,h,i]perylene	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Benzo[k]fluoranthene	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Carbazole	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Chrysene	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Dibenz(a,h)anthracene	ND		2100		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Dibenzofuran	**3600**		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Fluoranthene	**4200**		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Fluorene	**4100**		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Indeno[1,2,3-cd]pyrene	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Naphthalene	**4100**		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Pentachlorophenol	**7600**		4100		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Phenanthrene	**12000**		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Phenol	ND		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Pyrene	**2900**		1600		ug/Kg		10/23/18 12:35	10/24/18 22:45	5
Pyridine	ND		1700		ug/Kg		10/23/18 12:35	10/24/18 22:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*42 - 113*	*10/23/18 12:35*	*10/24/18 22:45*	*5*
2-Fluorophenol (Surr)	*58*		*18 - 138*	*10/23/18 12:35*	*10/24/18 22:45*	*5*
Nitrobenzene-d5 (Surr)	*49*		*39 - 104*	*10/23/18 12:35*	*10/24/18 22:45*	*5*
Terphenyl-d14 (Surr)	*57*		*43 - 125*	*10/23/18 12:35*	*10/24/18 22:45*	*5*
2,4,6-Tribromophenol (Surr)	*56*		*10 - 147*	*10/23/18 12:35*	*10/24/18 22:45*	*5*
Phenol-d6 (Surr)	*54*		*37 - 125*	*10/23/18 12:35*	*10/24/18 22:45*	*5*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.8		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Arsenic	**3.1**		2.9		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Barium	**120**		1.5		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Beryllium	ND		0.49		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Cadmium	ND		0.49		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Chromium	**26**		0.98		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Cobalt	**6.3**		0.98		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Copper	**18**		2.0		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Lead	**5.8**		2.0		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Molybdenum	ND		2.0		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Nickel	**11**		2.0		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Selenium	ND		2.9		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Thallium	ND		9.8		mg/Kg		10/23/18 15:07	10/24/18 18:11	5

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Client Sample ID: PZ- 20-7'
Date Collected: 10/17/18 11:30
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-17
Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	44		0.98		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Zinc	36		4.9		mg/Kg		10/23/18 15:07	10/24/18 18:11	5
Silver	ND		1.5		mg/Kg		10/23/18 15:07	10/24/18 18:11	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.020		mg/Kg		10/25/18 16:03	10/25/18 18:00	1

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
3050B	Preparation, Metals	SW846	TAL IRV
3520C	Liquid-Liquid Extraction (Continuous)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Client Sample ID: PZ- 19
Date Collected: 10/18/18 11:55
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			995 mL	2.0 mL	507147	10/24/18 09:13	JAA	TAL IRV
Total/NA	Analysis	8270C		20			507897	10/29/18 01:24	L1B	TAL IRV
Total/NA	Prep	3520C			995 mL	2.0 mL	507147	10/24/18 09:13	JAA	TAL IRV
Total/NA	Analysis	8270C		20			509169	11/05/18 02:57	HN	TAL IRV

Client Sample ID: PZ- 12
Date Collected: 10/18/18 13:20
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			990 mL	2.0 mL	507147	10/24/18 09:13	JAA	TAL IRV
Total/NA	Analysis	8270C		50			507897	10/29/18 01:49	L1B	TAL IRV
Total/NA	Prep	3520C			990 mL	2.0 mL	507147	10/24/18 09:13	JAA	TAL IRV
Total/NA	Analysis	8270C		50			509169	11/05/18 03:22	HN	TAL IRV

Client Sample ID: PZ- 20
Date Collected: 10/18/18 12:43
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1015 mL	2.0 mL	507422	10/25/18 08:44	JAA	TAL IRV
Total/NA	Analysis	8270C		50			507906	10/29/18 00:29	L1B	TAL IRV
Total/NA	Prep	3520C			1015 mL	2.0 mL	507422	10/25/18 08:44	JAA	TAL IRV
Total/NA	Analysis	8270C		50			509169	11/05/18 03:48	HN	TAL IRV

Client Sample ID: PZ- 9
Date Collected: 10/18/18 14:48
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			965 mL	2.0 mL	507147	10/24/18 13:02	JAA	TAL IRV
Total/NA	Analysis	8270C		1			507897	10/29/18 00:33	L1B	TAL IRV

Client Sample ID: PZ- 10
Date Collected: 10/18/18 15:08
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	2.0 mL	507147	10/24/18 13:02	JAA	TAL IRV
Total/NA	Analysis	8270C		5			507906	10/29/18 01:45	L1B	TAL IRV

Client Sample ID: PZ- 11

Lab Sample ID: 440-222839-6

Date Collected: 10/18/18 15:17

Matrix: Water

Date Received: 10/23/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1015 mL	2.0 mL	507147	10/24/18 13:02	JAA	TAL IRV
Total/NA	Analysis	8270C		1			507906	10/28/18 22:47	L1B	TAL IRV
Total/NA	Prep	3520C			1015 mL	2.0 mL	507147	10/24/18 13:02	JAA	TAL IRV
Total/NA	Analysis	8270C		1			509169	11/05/18 04:13	HN	TAL IRV

Client Sample ID: PZ- 13

Lab Sample ID: 440-222839-7

Date Collected: 10/18/18 15:30

Matrix: Water

Date Received: 10/23/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1020 mL	2.0 mL	507147	10/24/18 13:02	JAA	TAL IRV
Total/NA	Analysis	8270C		50			507906	10/29/18 02:11	L1B	TAL IRV

Client Sample ID: PZ- 12 DUP

Lab Sample ID: 440-222839-8

Date Collected: 10/18/18 15:40

Matrix: Water

Date Received: 10/23/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			995 mL	2.0 mL	507422	10/25/18 08:44	JAA	TAL IRV
Total/NA	Analysis	8270C		50			507906	10/29/18 00:54	L1B	TAL IRV

Client Sample ID: PZ- 14

Lab Sample ID: 440-222839-9

Date Collected: 10/18/18 15:52

Matrix: Water

Date Received: 10/23/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			995 mL	2.0 mL	507422	10/25/18 08:44	JAA	TAL IRV
Total/NA	Analysis	8270C		1			507906	10/28/18 21:30	L1B	TAL IRV

Client Sample ID: PZ- 15

Lab Sample ID: 440-222839-10

Date Collected: 10/18/18 16:05

Matrix: Water

Date Received: 10/23/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1015 mL	2.0 mL	507422	10/25/18 08:44	JAA	TAL IRV
Total/NA	Analysis	8270C		1			507906	10/28/18 21:56	L1B	TAL IRV

Client Sample ID: PZ- 16

Lab Sample ID: 440-222839-11

Date Collected: 10/18/18 16:18

Matrix: Water

Date Received: 10/23/18 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1015 mL	2.0 mL	507422	10/25/18 08:44	JAA	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Client Sample ID: PZ- 16
Date Collected: 10/18/18 16:18
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-11
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	8270C		1			507906	10/28/18 22:21	L1B	TAL IRV

Client Sample ID: PZ- 17
Date Collected: 10/18/18 16:34
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1005 mL	2.0 mL	507422	10/25/18 08:44	JAA	TAL IRV
Total/NA	Analysis	8270C		1			507906	10/28/18 23:38	L1B	TAL IRV

Client Sample ID: PZ- 18
Date Collected: 10/18/18 16:49
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			985 mL	2.0 mL	507422	10/25/18 08:44	JAA	TAL IRV
Total/NA	Analysis	8270C		1			507906	10/29/18 00:03	L1B	TAL IRV

Client Sample ID: PZ- 19 DUP
Date Collected: 10/18/18 17:13
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	2.0 mL	507422	10/25/18 08:44	JAA	TAL IRV
Total/NA	Analysis	8270C		5			507906	10/29/18 01:20	L1B	TAL IRV

Client Sample ID: PZ- 12-7'
Date Collected: 10/16/18 13:02
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-15
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	3546			20.03 g	1.00 mL	506859	10/23/18 12:35	FTD	TAL IRV
Total/NA	Analysis	8270C		1			507197	10/24/18 18:06	HN	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	506990	10/23/18 15:07	DT	TAL IRV
Total/NA	Analysis	6010B		5			507329	10/24/18 17:57	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	507530	10/25/18 16:03	DB	TAL IRV
Total/NA	Analysis	7471A		1			507557	10/25/18 17:53	DB	TAL IRV

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Angel Fire LLC

TestAmerica Job ID: 440-222839-1

Client Sample ID: PZ- 19-10'

Date Collected: 10/17/18 10:45
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-16

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	3546			20.07 g	1.00 mL	506859	10/23/18 12:35	FTD	TAL IRV
Total/NA	Analysis	8270C		10			507897	10/29/18 00:58	L1B	TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	506990	10/23/18 15:07	DT	TAL IRV
Total/NA	Analysis	6010B		5			507329	10/24/18 18:09	P1R	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	507530	10/25/18 16:03	DB	TAL IRV
Total/NA	Analysis	7471A		1			507557	10/25/18 17:58	DB	TAL IRV

Client Sample ID: PZ- 20-7'

Date Collected: 10/17/18 11:30
Date Received: 10/23/18 09:30

Lab Sample ID: 440-222839-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.06 g	1.00 mL	506859	10/23/18 12:35	FTD	TAL IRV
Total/NA	Analysis	8270C		5			507197	10/24/18 22:45	HN	TAL IRV
Total/NA	Prep	3050B			2.04 g	50 mL	506990	10/23/18 15:07	DT	TAL IRV
Total/NA	Analysis	6010B		5			507329	10/24/18 18:11	P1R	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	507530	10/25/18 16:03	DB	TAL IRV
Total/NA	Analysis	7471A		1			507557	10/25/18 18:00	DB	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-506859/1-A
Matrix: Solid
Analysis Batch: 506945

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506859

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		350		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
2-Methylnaphthalene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
2-Methylphenol	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Carbazole	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
4-Chloro-3-methylphenol	ND		400		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
3-Methylphenol + 4-Methylphenol	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Pyridine	ND		340		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Acenaphthene	ND		350		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Acenaphthylene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Anthracene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Benzo[a]anthracene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Benzo[a]pyrene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Benzo[b]fluoranthene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Benzo[g,h,i]perylene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Benzo[k]fluoranthene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Chrysene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Dibenz(a,h)anthracene	ND		420		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Dibenzofuran	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Fluoranthene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Fluorene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Indeno[1,2,3-cd]pyrene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Naphthalene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Pentachlorophenol	ND		830		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Phenanthrene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Phenol	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1
Pyrene	ND		330		ug/Kg		10/23/18 06:32	10/23/18 16:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*42 - 113*	*10/23/18 06:32*	*10/23/18 16:42*	*1*
2-Fluorophenol (Surr)	*75*		*18 - 138*	*10/23/18 06:32*	*10/23/18 16:42*	*1*
2,4,6-Tribromophenol (Surr)	*46*		*10 - 147*	*10/23/18 06:32*	*10/23/18 16:42*	*1*
Nitrobenzene-d5 (Surr)	*80*		*39 - 104*	*10/23/18 06:32*	*10/23/18 16:42*	*1*
Terphenyl-d14 (Surr)	*88*		*43 - 125*	*10/23/18 06:32*	*10/23/18 16:42*	*1*
Phenol-d6 (Surr)	*74*		*37 - 125*	*10/23/18 06:32*	*10/23/18 16:42*	*1*

Lab Sample ID: LCS 440-506859/2-A
Matrix: Solid
Analysis Batch: 506945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	2500	1830		ug/Kg		73	44 - 119
2-Methylphenol	2500	1930		ug/Kg		77	42 - 130
Carbazole	2500	2380		ug/Kg		95	47 - 125
4-Chloro-3-methylphenol	2500	2110		ug/Kg		84	45 - 128
3-Methylphenol + 4-Methylphenol	2500	1990		ug/Kg		80	42 - 138
Pyridine	5000	2910		ug/Kg		58	21 - 76
Acenaphthene	2500	1980		ug/Kg		79	40 - 118
Acenaphthylene	2500	2020		ug/Kg		81	47 - 125

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-506859/2-A
Matrix: Solid
Analysis Batch: 506945

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506859

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	2500	2280		ug/Kg		91	51 - 122
Benzo[a]anthracene	2500	2290		ug/Kg		91	50 - 123
Benzo[a]pyrene	2500	2330		ug/Kg		93	52 - 125
Benzo[b]fluoranthene	2500	2310		ug/Kg		93	52 - 125
Benzo[g,h,i]perylene	2500	2710		ug/Kg		108	38 - 149
Benzo[k]fluoranthene	2500	2300		ug/Kg		92	50 - 132
Chrysene	2500	2310		ug/Kg		93	51 - 127
Dibenz(a,h)anthracene	2500	2440		ug/Kg		98	45 - 136
Dibenzofuran	2500	1970		ug/Kg		79	47 - 120
Fluoranthene	2500	2270		ug/Kg		91	44 - 123
Fluorene	2500	1980		ug/Kg		79	48 - 123
Indeno[1,2,3-cd]pyrene	2500	2630		ug/Kg		105	46 - 148
Naphthalene	2500	1830		ug/Kg		73	42 - 115
Pentachlorophenol	5000	4150		ug/Kg		83	40 - 121
Phenanthrene	2500	2270		ug/Kg		91	51 - 122
Phenol	2500	2080		ug/Kg		83	42 - 133
Pyrene	2500	2300		ug/Kg		92	54 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*42 - 113*
2-Fluorophenol (Surr)	*83*		*18 - 138*
2,4,6-Tribromophenol (Surr)	*97*		*10 - 147*
Nitrobenzene-d5 (Surr)	*80*		*39 - 104*
Terphenyl-d14 (Surr)	*93*		*43 - 125*
Phenol-d6 (Surr)	*84*		*37 - 125*

Lab Sample ID: MB 440-507147/1-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
1,3-Dichlorobenzene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
1,4-Dichlorobenzene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
2,4,5-Trichlorophenol	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
2,4,6-Trichlorophenol	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
2,4-Dichlorophenol	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
2,4-Dimethylphenol	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
2,4-Dinitrophenol	ND		40		ug/L		10/24/18 09:13	10/28/18 15:14	1
2,4-Dinitrotoluene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
2,6-Dinitrotoluene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
2-Chloronaphthalene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
2-Chlorophenol	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
2-Methylnaphthalene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
2-Methylphenol	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
2-Nitroaniline	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
2-Nitrophenol	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
3,3'-Dichlorobenzidine	ND		40		ug/L		10/24/18 09:13	10/28/18 15:14	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-507147/1-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
4-Bromophenyl phenyl ether	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
4-Chloro-3-methylphenol	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
4-Chloroaniline	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
3-Methylphenol + 4-Methylphenol	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
4-Nitroaniline	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
4-Nitrophenol	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Acenaphthene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Acenaphthylene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Aniline	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Anthracene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Benzidine	ND		40		ug/L		10/24/18 09:13	10/28/18 15:14	1
Benzo[a]anthracene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Benzo[a]pyrene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Benzo[b]fluoranthene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Benzo[g,h,i]perylene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Benzo[k]fluoranthene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Benzoic acid	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Benzyl alcohol	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Bis(2-chloroethyl)ether	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Bis(2-ethylhexyl) phthalate	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Butyl benzyl phthalate	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Chrysene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Dibenz(a,h)anthracene	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Dibenzofuran	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Diethyl phthalate	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Dimethyl phthalate	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Di-n-butyl phthalate	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Di-n-octyl phthalate	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Fluoranthene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Fluorene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Hexachlorobenzene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Hexachlorobutadiene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Hexachlorocyclopentadiene	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Hexachloroethane	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Indeno[1,2,3-cd]pyrene	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Isophorone	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Naphthalene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Nitrobenzene	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
N-Nitrosodiphenylamine	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Pentachlorophenol	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1
Phenanthrene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Phenol	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
Pyrene	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-507147/1-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
bis (2-chloroisopropyl) ether	ND		10		ug/L		10/24/18 09:13	10/28/18 15:14	1
N-Nitrosodimethylamine	ND		20		ug/L		10/24/18 09:13	10/28/18 15:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*50 - 120*	*10/24/18 09:13*	*10/28/18 15:14*	*1*
2-Fluorophenol (Surr)	*76*		*30 - 120*	*10/24/18 09:13*	*10/28/18 15:14*	*1*
2,4,6-Tribromophenol (Surr)	*94*		*40 - 120*	*10/24/18 09:13*	*10/28/18 15:14*	*1*
Nitrobenzene-d5 (Surr)	*84*		*45 - 120*	*10/24/18 09:13*	*10/28/18 15:14*	*1*
Terphenyl-d14 (Surr)	*110*		*10 - 150*	*10/24/18 09:13*	*10/28/18 15:14*	*1*
Phenol-d6 (Surr)	*76*		*35 - 120*	*10/24/18 09:13*	*10/28/18 15:14*	*1*

Lab Sample ID: LCS 440-507147/2-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	100	64.4		ug/L		64	25 - 84
1,3-Dichlorobenzene	100	61.9		ug/L		62	20 - 80
1,4-Dichlorobenzene	100	62.4		ug/L		62	22 - 81
2,4,5-Trichlorophenol	100	80.3		ug/L		80	24 - 121
2,4,6-Trichlorophenol	100	80.7		ug/L		81	20 - 121
2,4-Dichlorophenol	100	73.8		ug/L		74	23 - 113
2,4-Dimethylphenol	100	73.2		ug/L		73	39 - 94
2,4-Dinitrophenol	200	183		ug/L		91	23 - 134
2,4-Dinitrotoluene	100	90.1		ug/L		90	54 - 115
2,6-Dinitrotoluene	100	87.1		ug/L		87	50 - 115
2-Chloronaphthalene	100	72.6		ug/L		73	34 - 102
2-Chlorophenol	100	68.3		ug/L		68	20 - 106
2-Methylnaphthalene	100	70.4		ug/L		70	34 - 98
2-Methylphenol	100	73.7		ug/L		74	36 - 103
2-Nitroaniline	100	90.9		ug/L		91	48 - 111
2-Nitrophenol	100	70.2		ug/L		70	20 - 117
3,3'-Dichlorobenzidine	100	66.5		ug/L		66	22 - 97
3-Nitroaniline	100	73.3		ug/L		73	51 - 116
4,6-Dinitro-2-methylphenol	200	175		ug/L		88	28 - 139
4-Bromophenyl phenyl ether	100	85.2		ug/L		85	42 - 113
4-Chloro-3-methylphenol	100	87.7		ug/L		88	44 - 110
4-Chloroaniline	100	64.7		ug/L		65	42 - 109
4-Chlorophenyl phenyl ether	100	80.7		ug/L		81	38 - 115
3-Methylphenol + 4-Methylphenol	100	77.5		ug/L		78	35 - 106
4-Nitroaniline	100	86.9		ug/L		87	50 - 116
4-Nitrophenol	200	187		ug/L		93	26 - 132
Acenaphthene	100	78.2		ug/L		78	37 - 107
Acenaphthylene	100	77.3		ug/L		77	39 - 107
Aniline	100	72.4		ug/L		72	27 - 115
Anthracene	100	85.9		ug/L		86	42 - 120
Benzidine	100	32.2	J	ug/L		32	5 - 150
Benzo[a]anthracene	100	85.1		ug/L		85	42 - 115

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-507147/2-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	100	76.0		ug/L		76	41 - 117
Benzo[b]fluoranthene	100	76.4		ug/L		76	36 - 113
Benzo[g,h,i]perylene	100	75.3		ug/L		75	37 - 115
Benzo[k]fluoranthene	100	73.1		ug/L		73	42 - 122
Benzoic acid	100	85.3		ug/L		85	15 - 121
Benzyl alcohol	100	72.4		ug/L		72	39 - 106
Bis(2-chloroethoxy)methane	100	74.5		ug/L		74	47 - 104
Bis(2-chloroethyl)ether	100	65.6		ug/L		66	42 - 99
Bis(2-ethylhexyl) phthalate	100	94.1		ug/L		94	43 - 124
Butyl benzyl phthalate	100	89.6		ug/L		90	44 - 122
Chrysene	100	83.9		ug/L		84	42 - 118
Dibenz(a,h)anthracene	100	75.8		ug/L		76	40 - 114
Dibenzofuran	100	79.4		ug/L		79	37 - 113
Diethyl phthalate	100	90.7		ug/L		91	51 - 120
Dimethyl phthalate	100	85.9		ug/L		86	49 - 113
Di-n-butyl phthalate	100	93.0		ug/L		93	47 - 125
Di-n-octyl phthalate	100	88.7		ug/L		89	42 - 125
Fluoranthene	100	87.3		ug/L		87	44 - 119
Fluorene	100	81.1		ug/L		81	39 - 116
Hexachlorobenzene	100	82.5		ug/L		82	43 - 112
Hexachlorobutadiene	100	59.7		ug/L		60	14 - 77
Hexachlorocyclopentadiene	100	56.6		ug/L		57	10 - 77
Hexachloroethane	100	63.0		ug/L		63	13 - 75
Indeno[1,2,3-cd]pyrene	100	76.1		ug/L		76	35 - 116
Isophorone	100	81.0		ug/L		81	48 - 107
Naphthalene	100	66.3		ug/L		66	33 - 95
Nitrobenzene	100	70.1		ug/L		70	42 - 99
N-Nitrosodi-n-propylamine	100	83.7		ug/L		84	44 - 111
N-Nitrosodiphenylamine	100	84.7		ug/L		85	46 - 116
Pentachlorophenol	200	184		ug/L		92	26 - 136
Phenanthrene	100	85.0		ug/L		85	43 - 120
Phenol	100	66.3		ug/L		66	25 - 99
Pyrene	100	83.6		ug/L		84	43 - 119
bis (2-chloroisopropyl) ether	100	70.2		ug/L		70	38 - 104
N-Nitrosodimethylamine	100	65.1		ug/L		65	35 - 96

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*50 - 120*
2-Fluorophenol (Surr)	*63*		*30 - 120*
2,4,6-Tribromophenol (Surr)	*97*		*40 - 120*
Nitrobenzene-d5 (Surr)	*75*		*45 - 120*
Terphenyl-d14 (Surr)	*98*		*10 - 150*
Phenol-d6 (Surr)	*69*		*35 - 120*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-222474-G-4-A MS
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 507147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND		100	52.8		ug/L		53	45 - 120
1,3-Dichlorobenzene	ND		100	50.4		ug/L		50	35 - 120
1,4-Dichlorobenzene	ND		100	51.2		ug/L		51	35 - 120
2,4,5-Trichlorophenol	ND		100	85.6		ug/L		86	55 - 120
2,4,6-Trichlorophenol	ND		100	83.0		ug/L		83	55 - 120
2,4-Dichlorophenol	ND		100	66.2		ug/L		66	55 - 120
2,4-Dimethylphenol	ND		100	68.0		ug/L		68	40 - 120
2,4-Dinitrophenol	ND		200	193		ug/L		96	40 - 120
2,4-Dinitrotoluene	ND		100	90.1		ug/L		90	65 - 120
2,6-Dinitrotoluene	ND		100	86.4		ug/L		86	65 - 120
2-Chloronaphthalene	ND		100	69.2		ug/L		69	60 - 120
2-Chlorophenol	ND		100	53.4		ug/L		53	45 - 120
2-Methylnaphthalene	ND		100	64.0		ug/L		64	55 - 120
2-Methylphenol	ND		100	61.9		ug/L		62	50 - 120
2-Nitroaniline	ND		100	83.6		ug/L		84	65 - 120
2-Nitrophenol	ND		100	61.0		ug/L		61	50 - 120
3,3'-Dichlorobenzidine	ND	F1	100	47.2		ug/L		47	45 - 135
3-Nitroaniline	ND	F2 F1	100	69.9		ug/L		70	60 - 120
4,6-Dinitro-2-methylphenol	ND		200	165		ug/L		83	45 - 120
4-Bromophenyl phenyl ether	ND		100	85.7		ug/L		86	60 - 120
4-Chloro-3-methylphenol	ND		100	85.8		ug/L		86	60 - 120
4-Chloroaniline	ND	F2 F1	100	56.7		ug/L		57	55 - 120
4-Chlorophenyl phenyl ether	ND		100	80.9		ug/L		81	65 - 120
3-Methylphenol + 4-Methylphenol	ND		100	65.5		ug/L		66	50 - 120
4-Nitroaniline	ND	F2 F1	100	76.7		ug/L		77	55 - 125
4-Nitrophenol	ND		200	198		ug/L		99	45 - 120
Acenaphthene	ND		100	76.5		ug/L		77	60 - 120
Acenaphthylene	ND		100	76.1		ug/L		76	60 - 120
Aniline	ND		100	57.2		ug/L		57	35 - 120
Anthracene	ND		100	83.5		ug/L		84	65 - 120
Benzidine	ND	F1	100	ND	F1	ug/L		0	30 - 160
Benzo[a]anthracene	ND		100	84.5		ug/L		85	65 - 120
Benzo[a]pyrene	ND		100	74.7		ug/L		75	55 - 130
Benzo[b]fluoranthene	ND		100	74.5		ug/L		74	55 - 125
Benzo[g,h,i]perylene	ND		100	74.5		ug/L		74	45 - 135
Benzo[k]fluoranthene	ND		100	72.3		ug/L		72	55 - 125
Benzoic acid	ND		100	94.9		ug/L		95	25 - 125
Benzyl alcohol	ND		100	62.6		ug/L		63	40 - 120
Bis(2-chloroethoxy)methane	ND		100	63.0		ug/L		63	50 - 120
Bis(2-chloroethyl)ether	ND		100	56.5		ug/L		56	50 - 120
Bis(2-ethylhexyl) phthalate	ND		100	94.8		ug/L		95	44 - 124
Butyl benzyl phthalate	ND		100	88.2		ug/L		88	55 - 130
Chrysene	ND		100	83.4		ug/L		83	65 - 120
Dibenz(a,h)anthracene	ND		100	74.2		ug/L		74	45 - 135
Dibenzofuran	ND		100	79.6		ug/L		80	65 - 120
Diethyl phthalate	ND		100	89.6		ug/L		90	55 - 120
Dimethyl phthalate	ND		100	83.9		ug/L		84	30 - 120
Di-n-butyl phthalate	ND		100	89.6		ug/L		90	60 - 125

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-222474-G-4-A MS
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 507147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	ND		100	89.3		ug/L		89	65 - 135
Fluoranthene	ND		100	85.0		ug/L		85	60 - 120
Fluorene	ND		100	82.1		ug/L		82	65 - 120
Hexachlorobenzene	ND		100	84.7		ug/L		85	60 - 120
Hexachlorobutadiene	ND		100	50.0		ug/L		50	40 - 120
Hexachlorocyclopentadiene	ND		100	45.6		ug/L		46	25 - 120
Hexachloroethane	ND		100	52.1		ug/L		52	35 - 120
Indeno[1,2,3-cd]pyrene	ND		100	75.8		ug/L		76	40 - 135
Isophorone	ND		100	75.4		ug/L		75	50 - 120
Naphthalene	ND		100	54.7		ug/L		55	55 - 120
Nitrobenzene	ND		100	65.5		ug/L		66	55 - 120
N-Nitrosodi-n-propylamine	ND		100	71.8		ug/L		72	45 - 120
N-Nitrosodiphenylamine	ND	F2	100	84.2		ug/L		84	50 - 150
Pentachlorophenol	ND		200	186		ug/L		93	24 - 121
Phenanthrene	ND		100	84.4		ug/L		84	65 - 120
Phenol	ND		100	55.3		ug/L		55	40 - 120
Pyrene	ND		100	85.2		ug/L		85	55 - 125
bis (2-chloroisopropyl) ether	ND		100	56.1		ug/L		56	45 - 120
N-Nitrosodimethylamine	ND		100	50.9		ug/L		51	45 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*50 - 120*
2-Fluorophenol (Surr)	*51*		*30 - 120*
2,4,6-Tribromophenol (Surr)	*97*		*40 - 120*
Nitrobenzene-d5 (Surr)	*62*		*45 - 120*
Terphenyl-d14 (Surr)	*98*		*10 - 150*
Phenol-d6 (Surr)	*55*		*35 - 120*

Lab Sample ID: 440-222474-G-4-B MSD
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 507147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		99.0	57.9		ug/L		58	45 - 120	9	20
1,3-Dichlorobenzene	ND		99.0	56.1		ug/L		57	35 - 120	11	25
1,4-Dichlorobenzene	ND		99.0	55.4		ug/L		56	35 - 120	8	25
2,4,5-Trichlorophenol	ND		99.0	74.7		ug/L		75	55 - 120	14	30
2,4,6-Trichlorophenol	ND		99.0	71.0		ug/L		72	55 - 120	16	30
2,4-Dichlorophenol	ND		99.0	65.2		ug/L		66	55 - 120	2	25
2,4-Dimethylphenol	ND		99.0	64.4		ug/L		65	40 - 120	5	25
2,4-Dinitrophenol	ND		198	187		ug/L		94	40 - 120	3	25
2,4-Dinitrotoluene	ND		99.0	87.8		ug/L		89	65 - 120	3	25
2,6-Dinitrotoluene	ND		99.0	79.1		ug/L		80	65 - 120	9	20
2-Chloronaphthalene	ND		99.0	63.7		ug/L		64	60 - 120	8	20
2-Chlorophenol	ND		99.0	59.0		ug/L		60	45 - 120	10	25
2-Methylnaphthalene	ND		99.0	62.0		ug/L		63	55 - 120	3	20
2-Methylphenol	ND		99.0	65.0		ug/L		66	50 - 120	5	25
2-Nitroaniline	ND		99.0	74.2		ug/L		75	65 - 120	12	25

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-222474-G-4-B MSD
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 507147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitrophenol	ND		99.0	63.5		ug/L		64	50 - 120	4	25
3,3'-Dichlorobenzidine	ND	F1	99.0	ND	F1	ug/L		0	45 - 135	NC	25
3-Nitroaniline	ND	F2 F1	99.0	ND	F1 F2	ug/L		12	60 - 120	142	25
4,6-Dinitro-2-methylphenol	ND		198	160		ug/L		81	45 - 120	3	25
4-Bromophenyl phenyl ether	ND		99.0	79.8		ug/L		81	60 - 120	7	25
4-Chloro-3-methylphenol	ND		99.0	75.7		ug/L		76	60 - 120	13	25
4-Chloroaniline	ND	F2 F1	99.0	ND	F1 F2	ug/L		6	55 - 120	160	25
4-Chlorophenyl phenyl ether	ND		99.0	72.0		ug/L		73	65 - 120	12	25
3-Methylphenol + 4-Methylphenol	ND		99.0	65.7		ug/L		66	50 - 120	0	25
4-Nitroaniline	ND	F2 F1	99.0	34.3	F1 F2	ug/L		35	55 - 125	76	25
4-Nitrophenol	ND		198	191		ug/L		97	45 - 120	3	30
Acenaphthene	ND		99.0	68.1		ug/L		69	60 - 120	12	25
Acenaphthylene	ND		99.0	65.0		ug/L		66	60 - 120	16	25
Aniline	ND		99.0	43.8		ug/L		44	35 - 120	27	30
Anthracene	ND		99.0	83.4		ug/L		84	65 - 120	0	25
Benzidine	ND	F1	99.0	ND	F1	ug/L		0	30 - 160	NC	35
Benzo[a]anthracene	ND		99.0	87.2		ug/L		88	65 - 120	3	20
Benzo[a]pyrene	ND		99.0	75.4		ug/L		76	55 - 130	1	25
Benzo[b]fluoranthene	ND		99.0	75.4		ug/L		76	55 - 125	1	25
Benzo[g,h,i]perylene	ND		99.0	77.2		ug/L		78	45 - 135	4	30
Benzo[k]fluoranthene	ND		99.0	73.7		ug/L		74	55 - 125	2	30
Benzoic acid	ND		99.0	87.5		ug/L		88	25 - 125	8	30
Benzyl alcohol	ND		99.0	61.7		ug/L		62	40 - 120	1	30
Bis(2-chloroethoxy)methane	ND		99.0	62.1		ug/L		63	50 - 120	1	25
Bis(2-chloroethyl)ether	ND		99.0	60.2		ug/L		61	50 - 120	6	25
Bis(2-ethylhexyl) phthalate	ND		99.0	96.5		ug/L		97	44 - 124	2	25
Butyl benzyl phthalate	ND		99.0	90.6		ug/L		92	55 - 130	3	25
Chrysene	ND		99.0	85.3		ug/L		86	65 - 120	2	25
Dibenz(a,h)anthracene	ND		99.0	77.0		ug/L		78	45 - 135	4	30
Dibenzofuran	ND		99.0	70.9		ug/L		72	65 - 120	12	25
Diethyl phthalate	ND		99.0	86.3		ug/L		87	55 - 120	4	30
Dimethyl phthalate	ND		99.0	77.8		ug/L		79	30 - 120	7	30
Di-n-butyl phthalate	ND		99.0	91.7		ug/L		93	60 - 125	2	25
Di-n-octyl phthalate	ND		99.0	92.1		ug/L		93	65 - 135	3	20
Fluoranthene	ND		99.0	86.2		ug/L		87	60 - 120	1	25
Fluorene	ND		99.0	73.9		ug/L		75	65 - 120	10	25
Hexachlorobenzene	ND		99.0	80.3		ug/L		81	60 - 120	5	25
Hexachlorobutadiene	ND		99.0	55.5		ug/L		56	40 - 120	10	25
Hexachlorocyclopentadiene	ND		99.0	38.8		ug/L		39	25 - 120	16	30
Hexachloroethane	ND		99.0	55.2		ug/L		56	35 - 120	6	25
Indeno[1,2,3-cd]pyrene	ND		99.0	77.5		ug/L		78	40 - 135	2	30
Isophorone	ND		99.0	66.5		ug/L		67	50 - 120	13	25
Naphthalene	ND		99.0	59.0		ug/L		60	55 - 120	8	25
Nitrobenzene	ND		99.0	69.2		ug/L		70	55 - 120	5	25
N-Nitrosodi-n-propylamine	ND		99.0	68.2		ug/L		69	45 - 120	5	25
N-Nitrosodiphenylamine	ND	F2	99.0	63.7	F2	ug/L		64	50 - 150	28	25
Pentachlorophenol	ND		198	187		ug/L		95	24 - 121	1	25
Phenanthrene	ND		99.0	82.4		ug/L		83	65 - 120	2	25

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-222474-G-4-B MSD
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 507147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol	ND		99.0	55.3		ug/L		56	40 - 120	0	25
Pyrene	ND		99.0	86.0		ug/L		87	55 - 125	1	25
bis (2-chloroisopropyl) ether	ND		99.0	61.4		ug/L		62	45 - 120	9	25
N-Nitrosodimethylamine	ND		99.0	54.1		ug/L		55	45 - 120	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*66*		*50 - 120*
2-Fluorophenol (Surr)	*54*		*30 - 120*
2,4,6-Tribromophenol (Surr)	*95*		*40 - 120*
Nitrobenzene-d5 (Surr)	*67*		*45 - 120*
Terphenyl-d14 (Surr)	*99*		*10 - 150*
Phenol-d6 (Surr)	*59*		*35 - 120*

Lab Sample ID: MB 440-507422/1-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507422

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
1,3-Dichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
1,4-Dichlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
2,4,5-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
2,4,6-Trichlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
2,4-Dichlorophenol	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
2,4-Dimethylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
2,4-Dinitrophenol	ND		40		ug/L		10/25/18 08:44	10/28/18 16:06	1
2,4-Dinitrotoluene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
2,6-Dinitrotoluene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
2-Chloronaphthalene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
2-Chlorophenol	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
2-Methylnaphthalene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
2-Methylphenol	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
2-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
2-Nitrophenol	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
3,3'-Dichlorobenzidine	ND		40		ug/L		10/25/18 08:44	10/28/18 16:06	1
3-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
4,6-Dinitro-2-methylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
4-Bromophenyl phenyl ether	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
4-Chloro-3-methylphenol	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
4-Chloroaniline	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
4-Chlorophenyl phenyl ether	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
3-Methylphenol + 4-Methylphenol	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
4-Nitroaniline	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
4-Nitrophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Acenaphthene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Acenaphthylene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Aniline	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Anthracene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-507422/1-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507422

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	ND		40		ug/L		10/25/18 08:44	10/28/18 16:06	1
Benzo[a]anthracene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Benzo[a]pyrene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Benzo[b]fluoranthene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Benzo[g,h,i]perylene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Benzo[k]fluoranthene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Benzoic acid	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Benzyl alcohol	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Bis(2-chloroethoxy)methane	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Bis(2-chloroethyl)ether	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Bis(2-ethylhexyl) phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Butyl benzyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Chrysene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Dibenz(a,h)anthracene	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Dibenzofuran	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Diethyl phthalate	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Dimethyl phthalate	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Di-n-butyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Di-n-octyl phthalate	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Fluoranthene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Fluorene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Hexachlorobenzene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Hexachlorobutadiene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Hexachlorocyclopentadiene	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Hexachloroethane	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Indeno[1,2,3-cd]pyrene	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Isophorone	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Naphthalene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Nitrobenzene	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
N-Nitrosodi-n-propylamine	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
N-Nitrosodiphenylamine	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Pentachlorophenol	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1
Phenanthrene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Phenol	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
Pyrene	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
bis (2-chloroisopropyl) ether	ND		10		ug/L		10/25/18 08:44	10/28/18 16:06	1
N-Nitrosodimethylamine	ND		20		ug/L		10/25/18 08:44	10/28/18 16:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*50 - 120*	*10/25/18 08:44*	*10/28/18 16:06*	*1*
2-Fluorophenol (Surr)	*46*		*30 - 120*	*10/25/18 08:44*	*10/28/18 16:06*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*40 - 120*	*10/25/18 08:44*	*10/28/18 16:06*	*1*
Nitrobenzene-d5 (Surr)	*55*		*45 - 120*	*10/25/18 08:44*	*10/28/18 16:06*	*1*
Terphenyl-d14 (Surr)	*80*		*10 - 150*	*10/25/18 08:44*	*10/28/18 16:06*	*1*
Phenol-d6 (Surr)	*46*		*35 - 120*	*10/25/18 08:44*	*10/28/18 16:06*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-507422/2-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507422

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	100	63.9		ug/L		64	25 - 84
1,3-Dichlorobenzene	100	57.5		ug/L		57	20 - 80
1,4-Dichlorobenzene	100	57.2		ug/L		57	22 - 81
2,4,5-Trichlorophenol	100	81.3		ug/L		81	24 - 121
2,4,6-Trichlorophenol	100	80.9		ug/L		81	20 - 121
2,4-Dichlorophenol	100	73.5		ug/L		74	23 - 113
2,4-Dimethylphenol	100	69.9		ug/L		70	39 - 94
2,4-Dinitrophenol	200	178		ug/L		89	23 - 134
2,4-Dinitrotoluene	100	86.9		ug/L		87	54 - 115
2,6-Dinitrotoluene	100	81.0		ug/L		81	50 - 115
2-Chloronaphthalene	100	74.1		ug/L		74	34 - 102
2-Chlorophenol	100	65.2		ug/L		65	20 - 106
2-Methylnaphthalene	100	70.7		ug/L		71	34 - 98
2-Methylphenol	100	74.9		ug/L		75	36 - 103
2-Nitroaniline	100	87.0		ug/L		87	48 - 111
2-Nitrophenol	100	72.0		ug/L		72	20 - 117
3,3'-Dichlorobenzidine	100	60.1		ug/L		60	22 - 97
3-Nitroaniline	100	70.8		ug/L		71	51 - 116
4,6-Dinitro-2-methylphenol	200	163		ug/L		81	28 - 139
4-Bromophenyl phenyl ether	100	82.6		ug/L		83	42 - 113
4-Chloro-3-methylphenol	100	84.4		ug/L		84	44 - 110
4-Chloroaniline	100	58.3		ug/L		58	42 - 109
4-Chlorophenyl phenyl ether	100	78.8		ug/L		79	38 - 115
3-Methylphenol + 4-Methylphenol	100	78.6		ug/L		79	35 - 106
4-Nitroaniline	100	83.3		ug/L		83	50 - 116
4-Nitrophenol	200	176		ug/L		88	26 - 132
Acenaphthene	100	77.8		ug/L		78	37 - 107
Acenaphthylene	100	76.7		ug/L		77	39 - 107
Aniline	100	23.8	*	ug/L		24	27 - 115
Anthracene	100	81.1		ug/L		81	42 - 120
Benzidine	100	ND	*	ug/L		2	5 - 150
Benzo[a]anthracene	100	82.2		ug/L		82	42 - 115
Benzo[a]pyrene	100	71.5		ug/L		71	41 - 117
Benzo[b]fluoranthene	100	70.3		ug/L		70	36 - 113
Benzo[g,h,i]perylene	100	71.4		ug/L		71	37 - 115
Benzo[k]fluoranthene	100	72.9		ug/L		73	42 - 122
Benzoic acid	100	87.6		ug/L		88	15 - 121
Benzyl alcohol	100	73.9		ug/L		74	39 - 106
Bis(2-chloroethoxy)methane	100	74.0		ug/L		74	47 - 104
Bis(2-chloroethyl)ether	100	67.5		ug/L		67	42 - 99
Bis(2-ethylhexyl) phthalate	100	88.2		ug/L		88	43 - 124
Butyl benzyl phthalate	100	82.7		ug/L		83	44 - 122
Chrysene	100	81.0		ug/L		81	42 - 118
Dibenz(a,h)anthracene	100	70.6		ug/L		71	40 - 114
Dibenzofuran	100	78.6		ug/L		79	37 - 113
Diethyl phthalate	100	86.2		ug/L		86	51 - 120
Dimethyl phthalate	100	82.8		ug/L		83	49 - 113
Di-n-butyl phthalate	100	86.5		ug/L		86	47 - 125

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-507422/2-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507422

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	100	82.6		ug/L		83	42 - 125
Fluoranthene	100	84.3		ug/L		84	44 - 119
Fluorene	100	77.6		ug/L		78	39 - 116
Hexachlorobenzene	100	81.4		ug/L		81	43 - 112
Hexachlorobutadiene	100	57.6		ug/L		58	14 - 77
Hexachlorocyclopentadiene	100	41.6		ug/L		42	10 - 77
Hexachloroethane	100	58.1		ug/L		58	13 - 75
Indeno[1,2,3-cd]pyrene	100	72.2		ug/L		72	35 - 116
Isophorone	100	81.5		ug/L		81	48 - 107
Naphthalene	100	66.9		ug/L		67	33 - 95
Nitrobenzene	100	72.0		ug/L		72	42 - 99
N-Nitrosodi-n-propylamine	100	82.9		ug/L		83	44 - 111
N-Nitrosodiphenylamine	100	79.9		ug/L		80	46 - 116
Pentachlorophenol	200	178		ug/L		89	26 - 136
Phenanthrene	100	80.3		ug/L		80	43 - 120
Phenol	100	62.5		ug/L		62	25 - 99
Pyrene	100	82.7		ug/L		83	43 - 119
bis (2-chloroisopropyl) ether	100	67.9		ug/L		68	38 - 104
N-Nitrosodimethylamine	100	62.6		ug/L		63	35 - 96

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*50 - 120*
2-Fluorophenol (Surr)	*62*		*30 - 120*
2,4,6-Tribromophenol (Surr)	*89*		*40 - 120*
Nitrobenzene-d5 (Surr)	*75*		*45 - 120*
Terphenyl-d14 (Surr)	*91*		*10 - 150*
Phenol-d6 (Surr)	*66*		*35 - 120*

Lab Sample ID: LCSD 440-507422/3-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 507422

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	100	54.0		ug/L		54	25 - 84	17	35
1,3-Dichlorobenzene	100	47.4		ug/L		47	20 - 80	19	35
1,4-Dichlorobenzene	100	47.6		ug/L		48	22 - 81	18	35
2,4,5-Trichlorophenol	100	67.5		ug/L		67	24 - 121	19	35
2,4,6-Trichlorophenol	100	70.6		ug/L		71	20 - 121	14	35
2,4-Dichlorophenol	100	65.1		ug/L		65	23 - 113	12	35
2,4-Dimethylphenol	100	67.2		ug/L		67	39 - 94	4	35
2,4-Dinitrophenol	200	181		ug/L		90	23 - 134	1	35
2,4-Dinitrotoluene	100	79.6		ug/L		80	54 - 115	9	35
2,6-Dinitrotoluene	100	76.1		ug/L		76	50 - 115	6	35
2-Chloronaphthalene	100	65.8		ug/L		66	34 - 102	12	35
2-Chlorophenol	100	55.9		ug/L		56	20 - 106	15	35
2-Methylnaphthalene	100	64.2		ug/L		64	34 - 98	9	35
2-Methylphenol	100	61.6		ug/L		62	36 - 103	20	35
2-Nitroaniline	100	76.8		ug/L		77	48 - 111	12	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-507422/3-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 507422

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitrophenol	100	59.8		ug/L		60	20 - 117	18	35
3,3'-Dichlorobenzidine	100	53.6		ug/L		54	22 - 97	11	35
3-Nitroaniline	100	61.6		ug/L		62	51 - 116	14	35
4,6-Dinitro-2-methylphenol	200	152		ug/L		76	28 - 139	7	35
4-Bromophenyl phenyl ether	100	72.6		ug/L		73	42 - 113	13	35
4-Chloro-3-methylphenol	100	74.6		ug/L		75	44 - 110	12	35
4-Chloroaniline	100	58.2		ug/L		58	42 - 109	0	35
4-Chlorophenyl phenyl ether	100	70.0		ug/L		70	38 - 115	12	35
3-Methylphenol + 4-Methylphenol	100	66.4		ug/L		66	35 - 106	17	35
4-Nitroaniline	100	77.0		ug/L		77	50 - 116	8	35
4-Nitrophenol	200	161		ug/L		80	26 - 132	9	35
Acenaphthene	100	68.1		ug/L		68	37 - 107	13	35
Acenaphthylene	100	67.7		ug/L		68	39 - 107	12	35
Aniline	100	70.7	*	ug/L		71	27 - 115	99	35
Anthracene	100	74.3		ug/L		74	42 - 120	9	35
Benzidine	100	27.4	J *	ug/L		27	5 - 150	176	35
Benzo[a]anthracene	100	77.5		ug/L		77	42 - 115	6	35
Benzo[a]pyrene	100	66.6		ug/L		67	41 - 117	7	35
Benzo[b]fluoranthene	100	67.0		ug/L		67	36 - 113	5	35
Benzo[g,h,i]perylene	100	68.2		ug/L		68	37 - 115	4	35
Benzo[k]fluoranthene	100	66.5		ug/L		66	42 - 122	9	35
Benzoic acid	100	74.6		ug/L		75	15 - 121	16	35
Benzyl alcohol	100	64.7		ug/L		65	39 - 106	13	35
Bis(2-chloroethoxy)methane	100	67.3		ug/L		67	47 - 104	9	35
Bis(2-chloroethyl)ether	100	56.0		ug/L		56	42 - 99	19	35
Bis(2-ethylhexyl) phthalate	100	84.4		ug/L		84	43 - 124	4	35
Butyl benzyl phthalate	100	79.5		ug/L		80	44 - 122	4	35
Chrysene	100	75.7		ug/L		76	42 - 118	7	35
Dibenz(a,h)anthracene	100	67.2		ug/L		67	40 - 114	5	35
Dibenzofuran	100	70.4		ug/L		70	37 - 113	11	35
Diethyl phthalate	100	79.6		ug/L		80	51 - 120	8	35
Dimethyl phthalate	100	74.8		ug/L		75	49 - 113	10	35
Di-n-butyl phthalate	100	81.0		ug/L		81	47 - 125	6	35
Di-n-octyl phthalate	100	81.1		ug/L		81	42 - 125	2	35
Fluoranthene	100	76.8		ug/L		77	44 - 119	9	35
Fluorene	100	71.5		ug/L		72	39 - 116	8	35
Hexachlorobenzene	100	71.4		ug/L		71	43 - 112	13	35
Hexachlorobutadiene	100	46.9		ug/L		47	14 - 77	21	35
Hexachlorocyclopentadiene	100	40.7		ug/L		41	10 - 77	2	35
Hexachloroethane	100	46.8		ug/L		47	13 - 75	21	35
Indeno[1,2,3-cd]pyrene	100	68.6		ug/L		69	35 - 116	5	35
Isophorone	100	73.2		ug/L		73	48 - 107	11	35
Naphthalene	100	58.9		ug/L		59	33 - 95	13	35
Nitrobenzene	100	61.0		ug/L		61	42 - 99	17	35
N-Nitrosodi-n-propylamine	100	73.3		ug/L		73	44 - 111	12	35
N-Nitrosodiphenylamine	100	72.8		ug/L		73	46 - 116	9	35
Pentachlorophenol	200	163		ug/L		82	26 - 136	9	35
Phenanthrene	100	73.7		ug/L		74	43 - 120	9	35

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-507422/3-A
Matrix: Water
Analysis Batch: 507897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 507422

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenol			100	55.5		ug/L		56	25 - 99	12	35
Pyrene			100	75.8		ug/L		76	43 - 119	9	35
bis (2-chloroisopropyl) ether			100	58.2		ug/L		58	38 - 104	15	35
N-Nitrosodimethylamine			100	55.5		ug/L		55	35 - 96	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*50 - 120*
2-Fluorophenol (Surr)	*47*		*30 - 120*
2,4,6-Tribromophenol (Surr)	*80*		*40 - 120*
Nitrobenzene-d5 (Surr)	*64*		*45 - 120*
Terphenyl-d14 (Surr)	*85*		*10 - 150*
Phenol-d6 (Surr)	*56*		*35 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-506990/1-A ^5
Matrix: Solid
Analysis Batch: 507329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 506990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Arsenic	ND		3.0		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Barium	ND		1.5		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Beryllium	ND		0.50		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Cadmium	ND		0.50		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Chromium	ND		0.99		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Cobalt	ND		0.99		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Copper	ND		2.0		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Lead	ND		2.0		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Molybdenum	ND		2.0		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Nickel	ND		2.0		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Selenium	ND		3.0		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Thallium	ND		9.9		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Vanadium	ND		0.99		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Zinc	ND		5.0		mg/Kg		10/23/18 15:07	10/24/18 17:52	5
Silver	ND		1.5		mg/Kg		10/23/18 15:07	10/24/18 17:52	5

Lab Sample ID: LCS 440-506990/2-A ^5
Matrix: Solid
Analysis Batch: 507329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506990

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony			49.8	43.3		mg/Kg		87	80 - 120
Arsenic			49.8	42.4		mg/Kg		85	80 - 120
Barium			49.8	44.2		mg/Kg		89	80 - 120
Beryllium			49.8	42.7		mg/Kg		86	80 - 120
Cadmium			49.8	42.9		mg/Kg		86	80 - 120
Chromium			49.8	43.9		mg/Kg		88	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-506990/2-A ^5
Matrix: Solid
Analysis Batch: 507329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 506990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	49.8	44.2		mg/Kg		89	80 - 120
Copper	49.8	44.3		mg/Kg		89	80 - 120
Lead	49.8	43.7		mg/Kg		88	80 - 120
Molybdenum	49.8	43.3		mg/Kg		87	80 - 120
Nickel	49.8	43.8		mg/Kg		88	80 - 120
Selenium	49.8	39.9		mg/Kg		80	80 - 120
Thallium	49.8	43.4		mg/Kg		87	80 - 120
Vanadium	49.8	43.8		mg/Kg		88	80 - 120
Zinc	49.8	42.4		mg/Kg		85	80 - 120
Silver	24.9	21.9		mg/Kg		88	80 - 120

Lab Sample ID: 440-222839-15 MS
Matrix: Solid
Analysis Batch: 507329

Client Sample ID: PZ- 12-7'
Prep Type: Total/NA
Prep Batch: 506990

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	49.0	28.0	F1	mg/Kg		57	75 - 125
Arsenic	ND		49.0	43.3		mg/Kg		88	75 - 125
Barium	87		49.0	135		mg/Kg		97	75 - 125
Beryllium	0.73		49.0	43.9		mg/Kg		88	75 - 125
Cadmium	ND		49.0	41.5		mg/Kg		85	75 - 125
Chromium	31		49.0	80.7		mg/Kg		102	75 - 125
Cobalt	9.6		49.0	52.6		mg/Kg		88	75 - 125
Copper	26		49.0	73.4		mg/Kg		97	75 - 125
Lead	8.6		49.0	50.7		mg/Kg		86	75 - 125
Molybdenum	ND		49.0	41.1		mg/Kg		84	75 - 125
Nickel	16		49.0	58.8		mg/Kg		87	75 - 125
Selenium	ND		49.0	40.2		mg/Kg		82	75 - 125
Thallium	ND		49.0	42.2		mg/Kg		86	75 - 125
Vanadium	41		49.0	99.5		mg/Kg		119	75 - 125
Zinc	50		49.0	96.1		mg/Kg		94	75 - 125
Silver	ND		24.5	21.3		mg/Kg		87	75 - 125

Lab Sample ID: 440-222839-15 MSD
Matrix: Solid
Analysis Batch: 507329

Client Sample ID: PZ- 12-7'
Prep Type: Total/NA
Prep Batch: 506990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	50.0	29.0	F1	mg/Kg		58	75 - 125	3	20
Arsenic	ND		50.0	45.9		mg/Kg		92	75 - 125	6	20
Barium	87		50.0	150		mg/Kg		124	75 - 125	10	20
Beryllium	0.73		50.0	47.2		mg/Kg		93	75 - 125	7	20
Cadmium	ND		50.0	44.6		mg/Kg		89	75 - 125	7	20
Chromium	31		50.0	84.3		mg/Kg		107	75 - 125	4	20
Cobalt	9.6		50.0	56.1		mg/Kg		93	75 - 125	6	20
Copper	26		50.0	76.7		mg/Kg		102	75 - 125	4	20
Lead	8.6		50.0	53.6		mg/Kg		90	75 - 125	6	20
Molybdenum	ND		50.0	44.5		mg/Kg		89	75 - 125	8	20
Nickel	16		50.0	62.2		mg/Kg		92	75 - 125	6	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-222839-15 MSD
Matrix: Solid
Analysis Batch: 507329

Client Sample ID: PZ- 12-7'
Prep Type: Total/NA
Prep Batch: 506990

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	ND		50.0	42.8		mg/Kg		86	75 - 125	6	20
Thallium	ND		50.0	45.4		mg/Kg		91	75 - 125	7	20
Vanadium	41		50.0	104		mg/Kg		125	75 - 125	4	20
Zinc	50		50.0	99.1		mg/Kg		98	75 - 125	3	20
Silver	ND		25.0	23.0		mg/Kg		92	75 - 125	8	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-507530/1-A
Matrix: Solid
Analysis Batch: 507557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020		mg/Kg		10/25/18 16:03	10/25/18 17:36	1

Lab Sample ID: LCS 440-507530/2-A
Matrix: Solid
Analysis Batch: 507557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.747		mg/Kg		93	80 - 120

Lab Sample ID: 440-222721-A-40-I MS
Matrix: Solid
Analysis Batch: 507557

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 507530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.13		0.784	0.849		mg/Kg		91	70 - 130

Lab Sample ID: 440-222721-A-40-J MSD
Matrix: Solid
Analysis Batch: 507557

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 507530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.13		0.784	0.809		mg/Kg		86	70 - 130	5	20

GC/MS Semi VOA

Prep Batch: 506859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-15	PZ- 12-7'	Total/NA	Solid	3546	
440-222839-16	PZ- 19-10'	Total/NA	Solid	3546	
440-222839-17	PZ- 20-7'	Total/NA	Solid	3546	
MB 440-506859/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-506859/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 506945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-506859/1-A	Method Blank	Total/NA	Solid	8270C	506859
LCS 440-506859/2-A	Lab Control Sample	Total/NA	Solid	8270C	506859

Prep Batch: 507147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-1	PZ- 19	Total/NA	Water	3520C	
440-222839-2	PZ- 12	Total/NA	Water	3520C	
440-222839-4	PZ- 9	Total/NA	Water	3520C	
440-222839-5	PZ- 10	Total/NA	Water	3520C	
440-222839-6	PZ- 11	Total/NA	Water	3520C	
440-222839-7	PZ- 13	Total/NA	Water	3520C	
MB 440-507147/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-507147/2-A	Lab Control Sample	Total/NA	Water	3520C	
440-222474-G-4-A MS	Matrix Spike	Total/NA	Water	3520C	
440-222474-G-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	3520C	

Analysis Batch: 507197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-15	PZ- 12-7'	Total/NA	Solid	8270C	506859
440-222839-17	PZ- 20-7'	Total/NA	Solid	8270C	506859

Prep Batch: 507422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-3	PZ- 20	Total/NA	Water	3520C	
440-222839-8	PZ- 12 DUP	Total/NA	Water	3520C	
440-222839-9	PZ- 14	Total/NA	Water	3520C	
440-222839-10	PZ- 15	Total/NA	Water	3520C	
440-222839-11	PZ- 16	Total/NA	Water	3520C	
440-222839-12	PZ- 17	Total/NA	Water	3520C	
440-222839-13	PZ- 18	Total/NA	Water	3520C	
440-222839-14	PZ- 19 DUP	Total/NA	Water	3520C	
MB 440-507422/1-A	Method Blank	Total/NA	Water	3520C	
LCS 440-507422/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 440-507422/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 507897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-1	PZ- 19	Total/NA	Water	8270C	507147
440-222839-2	PZ- 12	Total/NA	Water	8270C	507147
440-222839-4	PZ- 9	Total/NA	Water	8270C	507147
440-222839-16	PZ- 19-10'	Total/NA	Solid	8270C	506859
MB 440-507147/1-A	Method Blank	Total/NA	Water	8270C	507147
MB 440-507422/1-A	Method Blank	Total/NA	Water	8270C	507422

GC/MS Semi VOA (Continued)

Analysis Batch: 507897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-507147/2-A	Lab Control Sample	Total/NA	Water	8270C	507147
LCS 440-507422/2-A	Lab Control Sample	Total/NA	Water	8270C	507422
LCSD 440-507422/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	507422
440-222474-G-4-A MS	Matrix Spike	Total/NA	Water	8270C	507147
440-222474-G-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270C	507147

Analysis Batch: 507906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-3	PZ- 20	Total/NA	Water	8270C	507422
440-222839-5	PZ- 10	Total/NA	Water	8270C	507147
440-222839-6	PZ- 11	Total/NA	Water	8270C	507147
440-222839-7	PZ- 13	Total/NA	Water	8270C	507147
440-222839-8	PZ- 12 DUP	Total/NA	Water	8270C	507422
440-222839-9	PZ- 14	Total/NA	Water	8270C	507422
440-222839-10	PZ- 15	Total/NA	Water	8270C	507422
440-222839-11	PZ- 16	Total/NA	Water	8270C	507422
440-222839-12	PZ- 17	Total/NA	Water	8270C	507422
440-222839-13	PZ- 18	Total/NA	Water	8270C	507422
440-222839-14	PZ- 19 DUP	Total/NA	Water	8270C	507422

Analysis Batch: 509169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-1	PZ- 19	Total/NA	Water	8270C	507147
440-222839-2	PZ- 12	Total/NA	Water	8270C	507147
440-222839-3	PZ- 20	Total/NA	Water	8270C	507422
440-222839-6	PZ- 11	Total/NA	Water	8270C	507147

Metals

Prep Batch: 506990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-15	PZ- 12-7'	Total/NA	Solid	3050B	
440-222839-16	PZ- 19-10'	Total/NA	Solid	3050B	
440-222839-17	PZ- 20-7'	Total/NA	Solid	3050B	
MB 440-506990/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-506990/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-222839-15 MS	PZ- 12-7'	Total/NA	Solid	3050B	
440-222839-15 MSD	PZ- 12-7'	Total/NA	Solid	3050B	

Analysis Batch: 507329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-15	PZ- 12-7'	Total/NA	Solid	6010B	506990
440-222839-16	PZ- 19-10'	Total/NA	Solid	6010B	506990
440-222839-17	PZ- 20-7'	Total/NA	Solid	6010B	506990
MB 440-506990/1-A ^5	Method Blank	Total/NA	Solid	6010B	506990
LCS 440-506990/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	506990
440-222839-15 MS	PZ- 12-7'	Total/NA	Solid	6010B	506990
440-222839-15 MSD	PZ- 12-7'	Total/NA	Solid	6010B	506990

Metals (Continued)

Prep Batch: 507530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-15	PZ- 12-7'	Total/NA	Solid	7471A	
440-222839-16	PZ- 19-10'	Total/NA	Solid	7471A	
440-222839-17	PZ- 20-7'	Total/NA	Solid	7471A	
MB 440-507530/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-507530/2-A	Lab Control Sample	Total/NA	Solid	7471A	
440-222721-A-40-I MS	Matrix Spike	Total/NA	Solid	7471A	
440-222721-A-40-J MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 507557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-222839-15	PZ- 12-7'	Total/NA	Solid	7471A	507530
440-222839-16	PZ- 19-10'	Total/NA	Solid	7471A	507530
440-222839-17	PZ- 20-7'	Total/NA	Solid	7471A	507530
MB 440-507530/1-A	Method Blank	Total/NA	Solid	7471A	507530
LCS 440-507530/2-A	Lab Control Sample	Total/NA	Solid	7471A	507530
440-222721-A-40-I MS	Matrix Spike	Total/NA	Solid	7471A	507530
440-222721-A-40-J MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	507530

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance 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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 440-222839-1
Project/Site: Angel Fire LLC

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-19
Arizona	State Program	9	AZ0671	10-14-19
California	LA Cty Sanitation Districts	9	10256	06-30-19
California	State Program	9	CA ELAP 2706	06-30-19
Guam	State Program	9	Cert. No. 17-003R	01-23-19
Hawaii	State Program	9	N/A	01-29-19
Kansas	NELAP	7	E-10420	07-31-19
Nevada	State Program	9	CA015312018-1	07-31-19
New Mexico	State Program	6	N/A	01-29-19
Oregon	NELAP	10	4028	01-29-19
US Fish & Wildlife	Federal		058448	07-31-19
USDA	Federal		P330-18-00214	07-09-21
Washington	State Program	10	C900	09-03-19

TestAmerica Irvine
17461 Derian Ave Suite 100

Irvine, CA 92614-5817
phone 949.261.1022

Chain of Custody Record

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Antony Jones	Site Contact: Stephen Parton	Date: 10-22-18	COC No: 1
Geosyntec Consultants	Tel/Fax: 949.241.7263	Lab Contact: Lena Davidkova	Carrier: FedEx	1 of 2 COCs
1650 Iowa Ave. Suite 180	Analysis Turnaround Time			Sampler: S. Parton
Riverside, CA 92507	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
951.682.8576 Phone	TAT if different from Below ___3 weeks___			Walk-in Client:
951.682.8577 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Angel Fire Site Characterization	☐ 1 week			Job / SDG No.:
Site: Angel Fire, NM	☒ 2 days			
P O # HY 1622/03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOCs - EPA 8270C	Metals-6010B-CAM List	Sample Specific Notes:
PZ-19	10-18-18	1155	G	Water	1			X		
PZ-12		1320								
PZ-20		1243								
PZ-9		1448								
PZ-10		1508								
PZ-11		1517								
PZ-13		1530								
PZ-12 Dup		1540								
PZ-14		1552								
PZ-15		1605								
PZ-16		1618								

440-222839 Chain of Custody

10/23/18

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Ethylene Diamine

1 4 4 1 1 1 1 1 1 1 1 1 1 6 6 1 1 3

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Test America Project # 28012824

C/S # 7735 3861 0904 4.0/4.0 3.3/3.3 IR89

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

	Company:	Date/Time	Received by:	Company:	Date/Time:
Relinquished by: S. Parton	Geosyntec	10/22/18 1800	Fed Ex		
Relinquished by:	Company:	Date/Time:	Received by	Company	Date/Time
Relinquished by:	Company	Date/Time	Received by:	Company: TSIN	Date/Time: 10/23/18 0930

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
phone 949.261.1022

Chain of Custody Record

TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Antony Jones	Site Contact: Stephen Parton	Date: 10-22-18	COC No: 1
Geosyntec Consultants	Tel/Fax: 949.241.7263	Lab Contact: Lena Davidkova	Carrier: FedEx	2 of 2 COCs
1650 Iowa Ave. Suite 180	Analysis Turnaround Time			Sampler: S. Parton
Riverside, CA 92507	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
951.682.8576 Phone	TAT if different from Below 3 weeks			Walk-in Client:
951.682.8577 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Angel Fire Site Characterization	☐ 1 week			
Site: Angel Fire, NM	☒ 2 days			Job / SDG No.:
P O # HY 1622/03	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOCs - EPA 8270C	Metals-6010B-CAM List	Sample Specific Notes:
PZ-17	10-18-18	1634	G	GW	1			X		
PZ-18	|	1649	|	|	|			X		
PZ-19 Dup	|	1713	|					X		
PZ-12 -7'	10/16/18	1302	G	Soil	1			X	X	
PZ-19 - 10'	10/17/18	1045	|	|	|			X	X	
PZ-20 -7'	10/17/18	1130	|					X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Ethylene Diamine | 1 | 1 |

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: Test America Project # 28012824

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
S. Parton	Geosyntec	10/22/18 1830	FedEx		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by: [signature]	Company: TA IRV	Date/Time: 10/23/18 1013

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 440-222839-1

Login Number: 222839
List Number: 1
Creator: Bonta, Lucia F

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	Not Present
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	