NEW MEXICO ENVIRONMENT DEPARTMENT VOLUNTARY REMEDIATION AGREEMENT

I. Introduction

This Voluntary Remediation Agreement ("Agreement") is entered into voluntarily by **Taos Ski Valley, Inc.** represented by **John Kelly**, **Director of Operations**, 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 **Kachina Maintenance Facility (KMF)** ("Site"), located at 36°34'37.9"N and 105°26'21.9"W, the end of Kachina Road at the Kachina Base, Taos Ski Valley in Taos County, under the Voluntary Remediation Program **(VRP Site No. 53201003)**.

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, submitted by the Participant to the Department on December 4, 2020, 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 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. <u>Definitions</u>

"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:

Rebecca Cook

Ground Water Quality Bureau

New Mexico Environment Department

P.O. Box 5469

Santa Fe, NM 87502

E-mail: rebecca.cook@state.nm.us

Phone number: (505) 670-2135

Fax number: (505) 827-2965

Physical Address:

Rebecca Cook

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:

Taos Ski Valley, Inc.

Attn. John Kelly

P.O. Box 90

Taos Ski Valley, NM 87525

jcanepa@newmexico.com

505-982-9229

<u>Physical Address:</u> Taos Ski Valley, Inc.

Taos Ski Valley, NM 87525

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 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:

Petroleum hydrocarbons, especially diesel range organics, in groundwater and in soil beneath the area of the above ground storage tank (AST).

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 Regulations (20.6.2 NMAC);

New Mexico Environment Department Risk Assessment Guidance for Site Investigations and Remediation, February 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 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.

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:

Periodic status reports are not required.

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. 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 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.

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.

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.



Signatures

Participant(s):		
By:	Nai	ne:
(Signature of	Narauthorized representative)	(Print or type)
Date:		
New Mexico Environ	ment Department:	
By:	Nai	ne:
(Secretary or o	designee)	(Print or type)
Date:		
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Legal Description of Property Preliminary Work Plan Exhibit 1: Enclosures:

Exhibit 2:

NEW MEXICO ENVIRONMENT DEPARTMENT VOLUNTARY REMEDIATION AGREEMENT

EXHIBIT 1

Legal Description of Property

Kachina Maintenance Facility VRP Site No. 53201003

The site is a 20.48-acre parcel located at 36°34'37.9"N and 105°26'21.9"W, Kachina Base, Taos Ski Valley. The full legal description is included on the following survey.

Within the Antoine Leroux Grant in the Village of Taos Ski Valley, Taos County, New Mexico

A tract of land within the Antoine Leroux Grant in the Village of Taos Ski Valley, Taos County, New Mexico, shown on the Taos County Property ID Maps within Section 15, Township 27 North, Range 14 East, NMPM, and more particularly described as follows:

BEGINNING at the SE corner of this tract, a 1/2" rebar found with a cap stamped LS 11183, from whence a 2.5" aluminum cap monument with a cap stamped LS 11183 found at the base of Kachina Lift Tower No. 4 bears N 52° 43' 45" W, 1.806.11 ft. distant, thence:

S 89° 28' 48" W, 576.11 ft. to the SW corner of this tract, a point on the centerline of Lake Fork Stream from whence a 1/2" rebar with a cap stamped NMPS 11770 set as a witness comer bears N 89° 28' 48" E,

15.00 ft. distant, thence along said stream centerline the following meander courses:

N 35° 17' 35" W, 144.38 ft. to a point, thence:

N 11° 40' 57" W, 139.26 ft. to a point, thence: N 20° 14' 20" E, 84.39 ft. to a point, thence:

N 08° 48' 05" W, 62.78 ft. to a point, thence:

N 05° 48' 03" E. 26.57 ft. to a point, thence: N 17° 22' 36" W, 20.87 ft. to a point, thence:

N 07° 50' 48" W, 50.90 ft. to a point, thence:

N 15° 07' 25" W. 64.94 ft. to a point, thence:

N 30° 20' 36" W, 30.53 ft. to a point, thence:

N 12° 57' 08" E, 53.38 ft. to a point, thence: N 13° 01' 31" W 30.35 ft. to a point, thence:

N 00° 17' 31" E, 29.03 ft. to a point, thence:

N 05° 03' 26" W, 29.04 ft. to a point, thence:

N 43° 17' 37" W 5.95 ft, to a point, thence leaving said stream centerline:

N 76° 38' 56" E, 37.09 ft. to a 1/2" rebar set, thence:

N 13° 21' 04" W, 81.07 ff. to a 1/2" rebar set, thence: S 76° 48' 12" W. 44.41 ff. to a point on the centerline of Lake Fork Stream,

thence along said stream centerline the following meander courses:

N 12° 23' 07" W, 54.27 ft. to a point, thence: N 06° 13' 47" E, 58.16 ft. to a point, thence:

N 18° 26' 18" W, 48.16 ft. to a point, thence:

N 04° 12' 44" W, 115.54 ft. to a point, thence: N 22° 03' 23" W, 210.42 ft. to a point, thence:

N 31° 37' 27" W, 66.88 ft. to a point, thence:

N 20° 12' 07" W. 91.99 ft. to a point, thence:

N 38° 48' 07" W, 59.03 ft. to a point, thence:

N 25° 34' 37" W, 136.77 ft. to a point, thence:

N 09° 21' 13" F 106 42 ft to a point thence:

N 32° 48' 56" W, 147.93 ft. to a point, thence:

N 20° 58' 36" W, 83.45 ft. to a point, thence:

N 02° 01' 21" E. 30.74 ft. to a point, thence:

N 10° 39' 15" E, 118.63 ft. to a point, thence:

N 18° 47' 19" W, 74.75 ft. to a point, thence: N 01° 35' 33" W, 49.09 ft. to the NW corner of this tract,

a point from whence a 1/2" rebar with a cap stamped

S 11183 found as a witness comer bears N 88° 07' 33" E, 13.24 ft. distant, thence:

N 88° 07' 33" E, 176.11 ft. to the northerlymost corner of

this tract, a 1/2" rebar set, thence: S 15° 56' 37" E, 132.62 ft. to a 1/2" rebar found, thence:

N 87° 56' 41" E, 302.05 ft. to a 1/2" rebar found, thence:

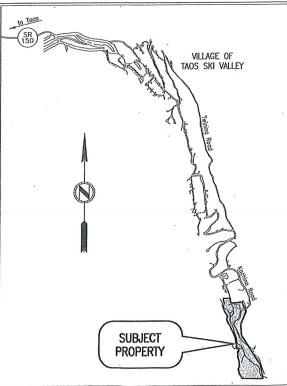
S 25° 45' 11" E, 260.32 ft. to a 1/2" rebar found, thence: S 23° 10' 44" W, 300.82 ft. to a 1/2" rebar found with

a cap stamped LS 5213, thence: S 23° 05' 07" W, 78.89 ft. to a 5/8" rebar found, thence:

\$ 03° 18' 05" E, 299.80 ft. to a 5/8" rebar found, thence: S 34° 21' 05" E, 586.94 ft. to a 1/2" rebar set, thence:

S 34° 16' 12" E. 353.84 ft. to a 1/2" rebar set, thence: S 11° 40' 14" E, 388.24 ft. to the POINT OF BEGINNING.

This tract contains 20.999 acres more or less, as shown on Red Tail Surveying, Inc. plat no. 1817, entitled Taos Ski Valley, Inc. Phoenix Tract, dated 2 January 2015, prepared by Robert A. Watt,



VICINITY MAP

DOCUMENT REFERENCE

				Taos Coun	dy Filing Info.
No.	Document Type	Grantor/Grantee	Date Signed	Book	Page(s)
D1	Warranty Deed	Pattison Family Trust et al. to Taos Ski Valley, Inc.	21 Apr 1997	A-240	556-559
D2	Warranty Deed	Pattison Family Trust et al. to Taos Ski Valley, Inc.	21 Apr 1997	A-240	552-555
D3	Warranty Deed	Pattison Family Trust to Taos Holdings, LLC	18 Feb 2010	M-709	738-754
D4	Warranty Deed	O.E. and Luciester Pattison and The Pattison Family Trust to Taos Ski Valley, Inc.	14 Sep 1971	A-124	7-11
D5	Warranty Deed	Pattison Family Trust et al. to Taos Holdings, LLC	25 Jul 1998	A-249	165-167
D6	Warranty Deed	Pattison Family Trust et al. to Lee Vosburgh	02 Jan 1997	A-238	266-268
D7	Warranty Deed	Pattison Family Trust et al. to Bruce W. and Alexandra L. Schnitzer	02 Jan 1997	A-238	380-383
D8	Warranty Deed	Belle Haven Investments, L.P. to Dean P. Gestal	17 May 1999	A-253	583-585 ·
	Correction Warranty Deed	The Pattison Trust and Luciester Pattison to Taos Ski Valley, Inc.	21 Apr 1997	A-240	560-563
D9		The Pattison Family Trust and Luciester Pattison Trust to Belvedere Holdings III, LLC	02 Apr 1997	A-240	564-568
D10	Warranty Deed	Belvedere Holdings III, LLC to Taos Holdings, LLC	30 Apr 1998	M-206	710-711
D11	Certificate of Change of Name	Taos Holdings, LLC to Pattison Family Trust and Luclester Pattison Trust	20 Apr 2001	M-277	853-857
D12	Easement Grant and Agreement	Taos Holdings, LLC to Lake Fork Creek Holdings, LLC	17 Aug 2011	M-757	789-798
D13	Warranty Deed	Taos Ski Valley, Inc. to Lake Fork Creek Holdings, LLC	08 Jun 2012	M-779	178-186
D14	Easement Grant and Agreement	Taos Holdings, LLC and Pattison Family Trust	12 Feb 2010	M-709	679-690
D15	Termination and Quitclaim	The Bayarian, Inc. to Twining Development, LLC	20 Oct 2014	M-859	746-748
. D16	Warranty Deed	Pattison Family Trust to Kachina Property Owners Association	27 Feb 2008	M-645	253-255
D17	Special Warranty Deed	Pattison Family Trust and Luciester Pattison Trust to Lee Vosburgh	27 Jul 1998	A-248	602-603
D18	Warranty Deed Quitclaim Deed	Taos Ski Valley, Inc. to Taos Ski Valley, Inc.	04 Sep 2009	M-696	42-44
D19		Pattison Family Trust and Luciester Pattison Trust to Bruce W. Schnitzer and Alexandra L. Schnitzer	27 Jul 1998	A-248	600-601
D20	Warranty Deed	Taos Ski Valley, Inc. to Village of Taos Ski Valley	12 Jul 2012	M-785	776-779
D21	Special Warranty Deed.	Taos Ski Valley, Inc. to Twining Water & Sanitation District	02 Jul 1997	M-196	819-820
D22	Grant of Utility Easement	Taos Ski Valley, Inc. to Village of Taos Ski Valley	29 Jun 1998	M-206	319-320
D23	Underground Utilities Easement	Taos Ski Valley, Inc. to Pattison Family Trust	10 Jul 1998	M-206	899-900
D24	Driveway Easement	Taos Ski Valley, Inc. to Village of Taos Ski Valley	16 Jul 2013	M-823	715-718
D25	Grant of Easement	Taos Ski Valley, Inc. to Twining Water & Sanitation District	17 Apr 1997	M-195	807-810
D26	Grant of Utility Easement	Taos Ski Valley, Inc. to Pattison Family Trust and Luciester Pattison Trust	17 Apr 1997	M-195	801-806
D27	Road, Utily, Access Easement	Pattison Family Trust to Pattison Trust, LLC	03 Oct 2013	M-837	145-160
D28	Special Warranty Deed	The Bavarian, Inc. to Taos Ski Valley, Inc.	20 Oct 2014	M-859	740
D29	Warranty Deed	The Bayarian, Inc. to Twining Development, LLC	20 Oct 2014	M-859	741-745
D30	Transfer of Special and Reserved Rights	Pattison Family Trust, Luciester Pattison Trust, Belvedere Holdings, et al.	19 Mar 1997	M-195	821-831
D31	Roadway, Uffly, Easement Agreement	Taos Ski Valley, Inc. to Kit Carson Electric Cooperative	26 Aug 2013	M-835	340-341
D32	Right-of-Way Easement	Taos Holdings, LLC to Village of Taos Ski Valley	29 Jun 2011	M-755	629-635
D33	Special Warranty Deed	Luciester Pattison and Pattison Family Trust to Twining Water and Sanitation District	03 Jul 1986	M-113	334-336
D34	Assignment of Easement	Pattison Family Trusts and Luciester Pattison Trust to Twining Water and Sanitation District	21 Apr 1997	M-195	794-797
D35	Grant of Utility Easement	Taos Ski Valley, Inc., Pattison Family Trust, and Luciester Pattison	03 Apr 1997	M-195	811-815
D36	Memorandum of Agreement	Twining Water & Sanitation District and Pattison Family Trusts	11 Jul 1997	M-197	199-207
D37	Line Extension Agreement	Twining Water and Sanitation District, Pattison Family Trust and Luciester Pattison Trust	21 Sep 1998	M-208	331-332
D38	Amendment to Line Extension Agreement	Taos Ski Valley, Inc. and T-Mobile West, LLC	13 Sep 2012	M-827	380-384
. D39	Memorandum of Lease	1400 Oli Talloji ilio, alla l'iliobile Tronj Ele			

		PLAT REFERE	NCE					
No.	Title	Surveyor	NMPS #	Job No.	Date	Amd, Date	Cabinet	Page
P1	The Pattison Trust	Gil Stewart	11183	290	07 Oct 1994	-	С	172-A
P2	Taos Ski Valley, Inc.	Gil Stewart	11183	460	17 Aug 2001	_	D	155-B
P3	Taos Ski Valley, Inc.	Gil Stewart	11183	456	Oct 1996	-	D	28-A
P4	Pattison Family Trust and Taos Holdings, LLC	Mark W. Shadburn	17532	1291.04x	15 Jan 2010	-	E	177-B
	Pattison Trust	A.G. Stewart	11183	416	08 Oct 1996	15 Apr 1998	E	177-B
P5		Robert A. Watt	11770	1501.PS	11 Oct 2012	<u>`</u>	_	-
P6	PreIminary Plat Lake Fork Creek Holdings, LLC Lake Fork Creek Subdivision	A.G. Stewart	11183	555	March 2002		D	182-A
P7	Replat of Lot 1, Block 3, Kachina Village Subdivision	Robert A. Watt	11770	1425.02	20 Oct 2011	_	F	7-B
. P8	Village of Taos Ski Valley Spring Box Tract & Easement	Georg Vedeler	3707	1420.02	07 Nov 1972	_	В	94-A
P9	Taos Ski Valley/Kachina Village			1259.COND.amd2	04 May 2010		E	183-A
P10	The Bavarian Inn & Chalets Condominium	Robert A. Watt	11770		07 Mar 2011		=	196-B
P11	Village of Taos Ski Valley Kachina Water Tank Site	Robert A. Watt	11770	1425		_	-	13-B
P12	Taos Holdings, LLC's Lot 7 Welfand Mifigation Site Lot Split and Transfer to VTSV	Robert A. Watt	11770	1562.LS	05 Feb 2013	_	. E	170-B
P13	Taos Ski Valley, Inc.	Robert A. Watt	11770	1434	12 Aụg 2009	_	· E	170-0

SURVEYOR'S NOTES

- 1. This survey is a compilation of information provided or found in a public record. There may be other documents specifying easements, restrictions, covenants or codes that were not provided or are not known at the time of the preparation of this plat.
- 2. For current zoning information, contact the Village of Taos Ski Valley Planning and Zoning Department.
- 3. Part of the boundaries of this survey are meander courses along the Lake Fork Stream, are subject to change due to natural causes, and may or may not represent the actual limit of title.
- 4. Information shown in parentheses is record information from references as shown.
- 5. The route of the Williams Lake Trail is shown hereon as it existed at the time of this survey. This route is subject to change in future.

STATE OF NEW MEXICO) COUNTY OF TAOS)SS PM+ which was filed for record on the 21-St of APril AD 2015 at Hm o'clock 9:34:34 Doc.#402550 CAB F Book Page 36-A Arna Martinez, Coulty Clark Taos County, N.M.
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Red Tail Surveying, Inc. Complete Land Surveying and Earth Information Services

301-A Hinde Street Taos, New Mexico 87571-6654 575.758.7441

www.redtailsurvey.com

BOUNDARY SURVEY

Current owner: Taos Ski Valley, Inc. Projected Section 15, T 27N, R 14E, NMPM

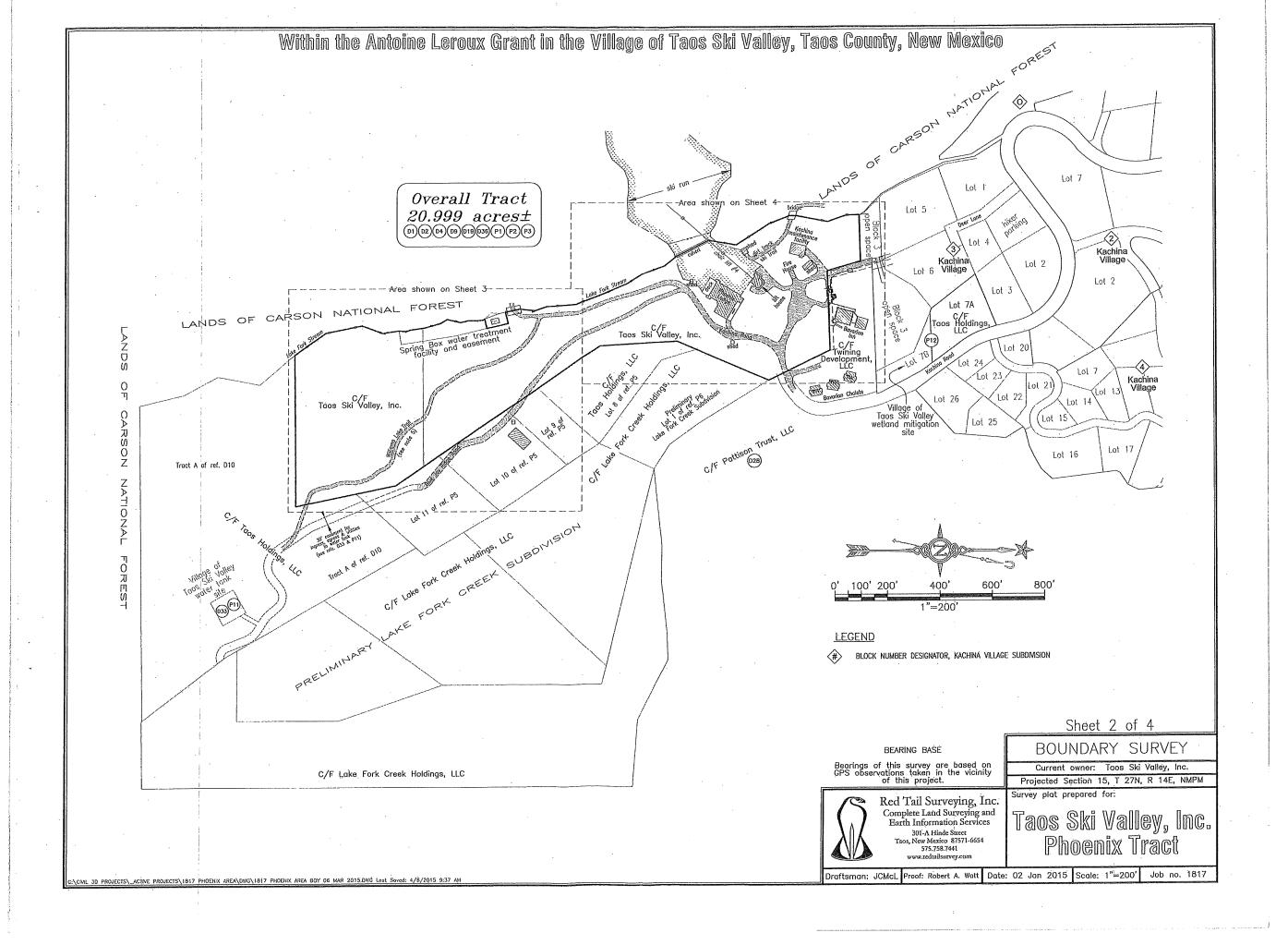
Sheet 1 of 4

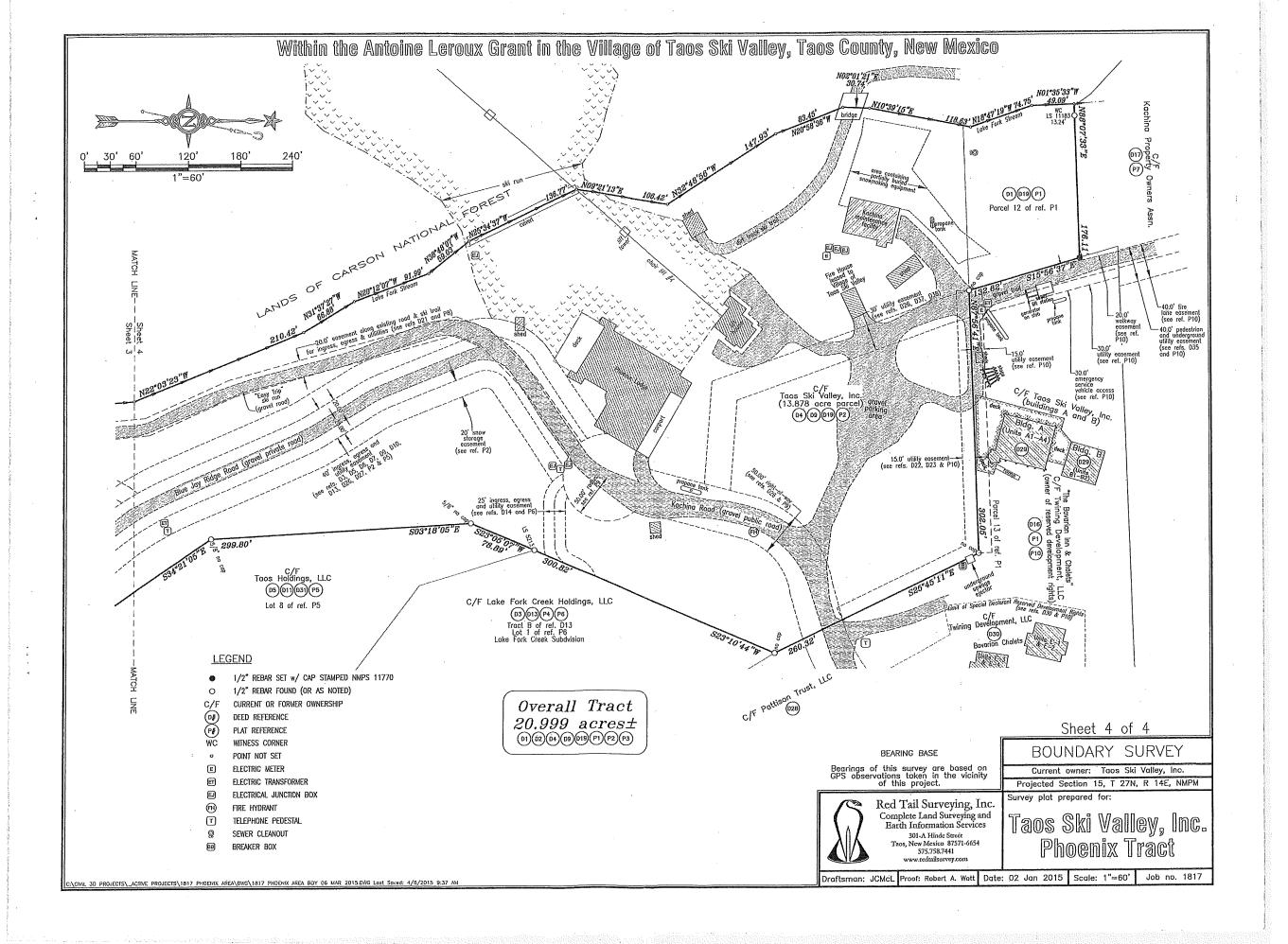
Survey plat prepared for:

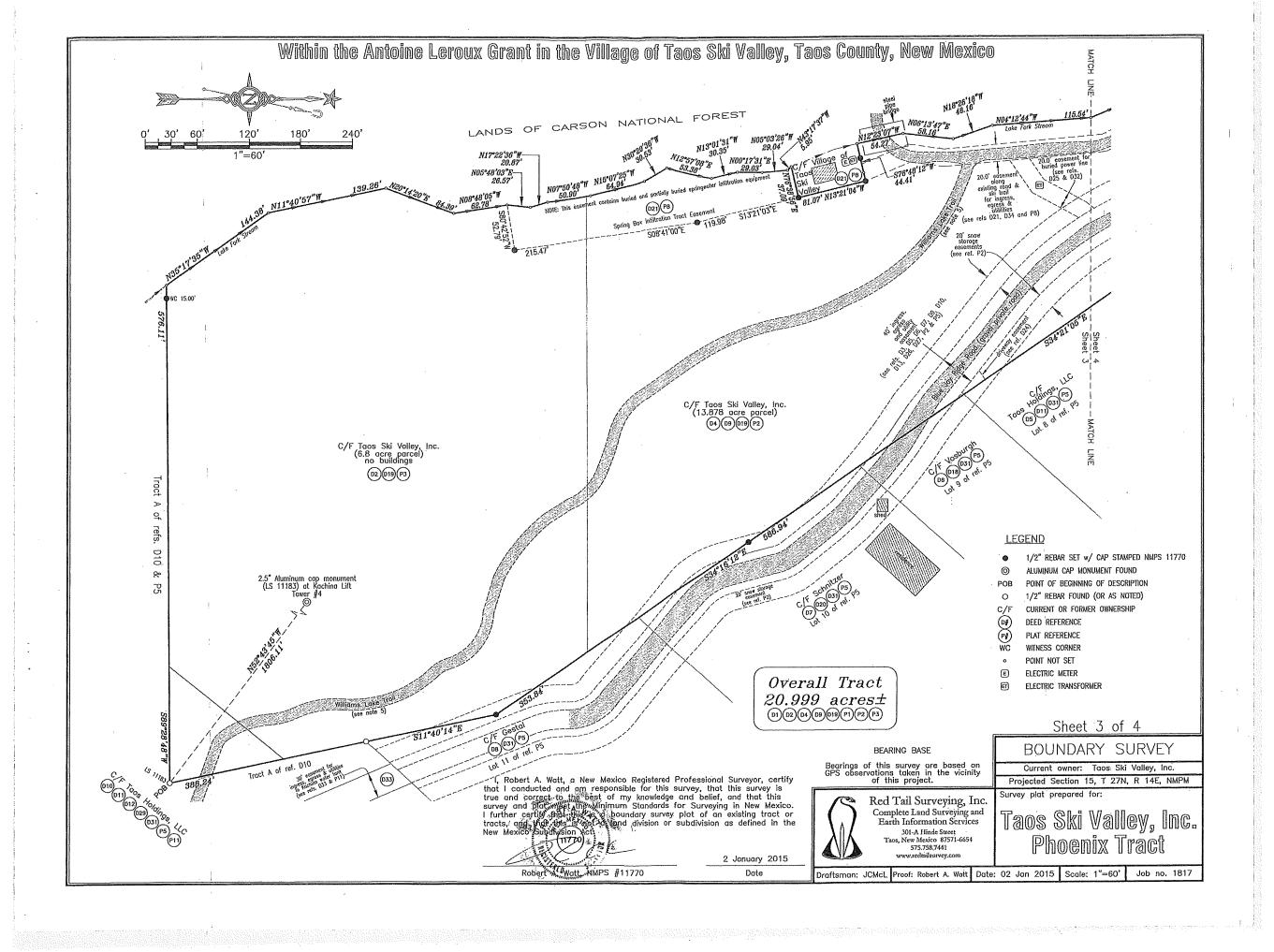
Draftsman: JCMcL Proof: Robert A. Watt

Date: 02 Jan 2015

Job no. 1817







NEW MEXICO ENVIRONMENT DEPARTMENT VOLUNTARY REMEDIATION AGREEMENT

EXHIBIT 2

Preliminary Voluntary Remediation Work Plan

Kachina Maintenance Facility VRP Site No. 53201003



Preliminary Work Plan Kachina Maintenance Facility Diesel Release Taos Ski Valley Prepared for NMED Voluntary Remediation Program Application for Determination of Eligibility (Section IV)

December 4, 2020

1.0 Introduction

This Preliminary Work Plan ("PWP") is submitted to satisfy the requirements of 20.6.3.200.B(4) NMAC, and supplement the Application for Determination of Eligibility for the Taos Ski Valley, Inc. ("TSVI") Kachina Maintenance Facility ("KMF") site ("the Site").

2.0 Background

2.1 Site Description and Physical Setting

The KMF Site is located on property owned by TSVI within the Village of Taos Ski Valley. The Site is in a relatively broad valley floor in an area of the Taos Ski Area known as the "Kachina Base Area" that includes the base of Lift 4, the Bavarian Restaurant, and the Phoenix Lodge (Figures 1 and 2). The Site consists of a building that houses snowmaking equipment and machinery, a small maintenance shop, and two power generators. One generator is for back-up electricity at Kachina Base facilities, and one generator is for snowmaking. Two 1,000 gallon diesel above-ground storage tanks ("ASTs") exist at the Site to provide fuel for the generators. The Phase 1 Environmental Site Assessment ("Phase 1 ESA"; GGI, 2020) that accompanies this PWP details past and present environmental management practices at the KMF.

The Site is located within Taos County, New Mexico, 15 miles northwest of the Town of Taos, and is in a semi-rural area at approximately 10,500 feet above mean sea level.

According to the NCRS Web Soil Survey, the surface soil unit within the Site is predominantly Presa, a well-drained cobbly loam with moderate and high infiltration rates. Nambe (cobbly loam; moderately well-drained) and Paleboralfs are also present. The bedrock underlying the Site consists of Proterozoic-age gneiss and amphibolite. Lower slopes are covered with colluvium and alluvium consisting of boulders, gravel, and sand eroded from the bedrock or reworked from glacial till. There are no mapped active faults based on a literature review, and no recognizable surface indicators to suggest there are active faults within the Site or adjacent properties.

Based on the general topography around the Site, the groundwater gradient is likely towards Lake Fork Creek (GGI 2020, Figure 6). The primary aquifer is the alluvium and till in the valley bottom and fractured bedrock on the upper slopes. Groundwater reaches the surface at the Phoenix Spring south of the Site, and at various wetlands primarily to the north and northeast of the Site. The closest waterway is the Lake Fork of the Rio Hondo (also known as Lake Fork Creek), a perennial stream in the reach adjacent to the Site. Wetland conditions are present immediately north of the KMF where standing water in a marshy area is frequently observed.

2.2 Site History and Land Use

Prior to development as a ski area in the 1950s, the Kachina Base Area was mostly undeveloped, except for possible minor disturbances due to historic mining activity associated with the Twining Mining District. Detailed descriptions of Site history and past and present land use are contained in the Phase 1 ESA.

2.3 Summary of Previous Assessments and Remediation

A previous release at the KMF occurred from an AST located at the No. 4 Generator Site near the Kachina Maintenance Facility and was reported to the New Mexico Environment Department ("NMED") Surface Water Quality Bureau in 1993 after reports of hydrocarbon odor in the area. An investigation was conducted by CDM Inc. (1993) by digging four trenches and advancing six soil borings. Five of these borings were converted to 4 inch PVC monitoring wells. Temporary Monitoring Well B-3 had the highest constituent concentrations and phase separated hydrocarbons. Most temporary monitoring wells and trenches

exhibited measurable BTEX (benzene, toluene, ethylbenzene, and total xylenes) and/or PNA (polynuclear aromatics) concentrations in soil and water. Free phase hydrocarbon was removed from the wetland area by the use of absorbent materials and a vacuum truck, and additional soil was removed from the wetland marsh area. Approximately 200 yards of contaminated soils were excavated from the AST area, remediated, and disposed of at the TSV property on Highway 64 after approval from the NMED indicating that the soils had been remediated to acceptable levels (letter from NMED dated November 13, 1995 approving moving the soil to the Gorge site). NMED was unable to provide documentation indicating a status of no further action. CDM Inc. concluded that there were no adverse conditions at the former underground storage tank ("UST") site remaining after excavation and soil remediation. This is considered a Historical Recognized Environmental Condition ("HREC") in association with the Subject Property of the Phase 1 ESA. Supporting documentation, including the 1993 CDM report, is included in Appendix D of the Phase 1 ESA.

Current Investigation Summary

On July 10, 2019, TSVI notified NMED of a release from the 1,000 gallon backup generator diesel fuel tank at the KMF. The discharge began sometime after October 2018, and emanated from a lower drain bung on the newly-installed double-walled 1,000 gallon tank. The temporary plug used in storing, transporting, and installing new tanks was not replaced in the installation, and sometime after installation (likely over the winter season) degraded or lost integrity with the tank and began to leak. An area of approximately 6 ft. by 6 ft. on the ground surface showed visual and olfactory evidence of contamination. TSVI emptied the tank at that time.

On July 16, 2019, TSVI personnel over-excavated the aforementioned area (Figure 3). Prior to excavation, a single sample was collected from the center of the stained area at approximately two feet depth to confirm the presence of diesel fuel constituents, rule out other contaminants, and identify the primary constituents of concern ("CoCs") for this project. After collection of this sample, excavation commenced. Approximately 35 cubic yards of contaminated soil was removed from a 15 ft. by 11 ft. area to a depth of approximately 5.5 feet. Excavation was limited by the presence of the concrete footer that supported the north end of the tank. Groundwater was encountered at the bottom of the excavation.

In addition to the single sample mentioned above, discreet (i.e., non-composited) soil samples were collected with a stainless steel trowel that was decontaminated before each sampling event with an Alconox rinse. Hall Environmental Analysis Laboratory ("HEAL") provided 4-ounce jars for the samples, and GGI used HEAL-provided chain-of-custody forms to document sample handling. Samples were placed in the jars, placed on ice in a cooler, and sent to HEAL for analysis by courier. The excavation was roped off and secured from the public, pending analytical results. The excavated soil was temporarily staged at a level parking lot on plastic, and bermed to prevent runon and runoff.

The samples were analyzed by the following methods:

- EPA Method 8015M/D: Diesel Range Organics (DRO)
- EPA Method 8015D: Gasoline Range Organics (GRO)
- EPA Method 8021B: Volatiles
- EPA Method 8270C: Polyaromatic Hydrocarbons (PAHs)

Seven soil samples were collected from the sidewalls and bottom of the excavation to establish the lateral and vertical extent of contamination and the approximate area for a second excavation event to remove all remaining contaminated soil, if needed. The bottom sample (KMF-FT-7) was obtained from saturated material at or near the water table, removed with an excavator bucket. Figure 4 is a cross-section of the south wall of the excavation, showing the vertical position of the concrete footer. Figure 3 shows the locations of the samples. The analytical results are summarized in Table 1. Laboratory reports are attached to this PWP.

Based on the results, the lateral extent of contamination was defined on the east, north, and west sides of the excavation. Soil samples adjacent to the concrete footer (KMF-FT-5, -6, and -7) show that contamination in that area was not completely removed, thus requiring further excavation in that area.

On August 27, 2019, TSVI removed the concrete footer from the edge of the roped-off excavation, and excavated an additional 25 cubic yards of soil adjacent to and underneath it in the area of sampling where hydrocarbons were detected the previous month. Two additional soil samples (KMF-FT-8 and -9) were collected at five feet depth below ground surface at the lateral extent of the excavation to confirm removal of all diesel-contaminated soils. The lateral extent of excavation was limited by trees near the KMF building, the second tank footer, and the KMF building. The excavated material was added to the staged

soil from the July 16, 2019 excavation. All material was then transported to the Envirotech facility at Hilltop, New Mexico, on November 4, 2019 (manifests attached). Figure 3 shows the final extent of the excavation and the location of all samples. Table 2 shows the detections present in the samples.

Table 1. Analytical results from first excavation and sampling event on July 16, 2019. Depths are below surface grade. Only detected compounds are listed. ND = not detected. Bold values exceed human health screening levels or risk-based SSL, DAF 20.

PAH Above	Analyte Concentration (mg/kg)								Screening Levels (mg/kg)			
Detection Limit	KMF Center	KMF- FT-1	KMF- FT-2	KMF- FT-3	KMF- FT-4	KMF-FT-5	KMF-FT-6	KMF-FT-7	Residential	Industrial	SSL, DAF 20	
DRO/MRO/GRO	11000/ND /94	ND	ND	ND	26/88/ ND	19000/ND /470	22000/ND /860	70000/ND/ 1300	1000	3000	5720	
TPH (DRO+MRO+GRO)	11094	ND	ND	ND	114	19470	22860	71300				
Total Xylenes	1.1	ND	ND	0.20	26	26	42	99	871	4280	154	
Naphthalene	0.55	ND	ND	ND	ND	2.7	2.5	23	49.7	241	.0823	
1-Methylnaphthalene	1.6	ND	ND	ND	ND	4.3	3.9	34	172	813	0.893	
2- Methylnaphthalene	1.6	ND	ND	ND	ND	1.6	6.2	40	232	3370	2.76	
Toluene	ND	ND	ND	ND	ND	5.0	10	31	5230	61300	12.1	
Ethylbenzene	ND	ND	ND	ND	ND	5.8	11	26	75.1	368	12.3	
Benzene	ND	ND	ND	ND	ND	ND	0.68	2.7	17.8	87.2	.042	
Pyrene	ND	ND	ND	ND	ND	ND	ND	9.3	1740	25300	192	
Sample Depth	2	3.5	3.0	2.0	2.0	3.0	5.5	5.5				

Table 2. Analytical results from second excavation and sampling event on August 27, 2019. Both soil samples were taken at a depth of 5 feet below surface grade. Only detected compounds are listed. ND= not detected. Bold values exceed human health screening levels or risk-based SSL, DAF 20.

PAH above Detection	_	oncentration g/kg)	Screeni (mg	Risk-based SSL, DAF 20 (mg/kg)	
	KMF-FT-8	KMF-FT-9	Residential Industrial		
DRO/MRO/GRO	3300/ND/54	4800/ND/110			
DRO+MRO+GRO	3354	4910	1000	3000	5720
1-Methylnaphthalene	0.28	0.51	172	813	0.893
2-Methylnaphthalene	0.41	0.92	232	3370	2.76
Fluorene	0.055	0.072	2320	33700	80
Phenanthrene	0.068	0.079	1740	25300	85.9
Pyrene	0.018	ND	1740	25300	192
Chrysene	0.30	0.30	153	3230	186
Total Xylenes	ND	2.5	871 4280		154
Naphthalene	ND	0.24	49.7	241	.0823

On August 28, 2019, TSVI installed a temporary corrugated metal pipe ("CMP") in a vertical configuration in the open pit to facilitate groundwater sampling, depth-to-water measurement, and identification of non-aqueous phase liquids. The 24-inch CMP was perforated with torch slots approximately ¼ inches wide and 40 inches long spaced approximately 4-6 inches, and no less than six inches from the bottom of the CMP. The bottom of the CMP was open, and emplaced approximately two feet below the water table as observed in the open pit. The pit was then backfilled with two-inch crushed rock. At the end of the operation, the depth-to-water was approximately 7.5 feet below surface grade (bsg) and there was a slight discontinuous sheen on the water table.

Because of detections of diesel range organic compounds, and of naphthalene above the soil-to-groundwater SSL, groundwater has the potential to be affected by the KMF release. GGI therefore collected three groundwater samples: one from the culvert well, one from a nearby downgradient monitoring well, and a rinsate sample from the pump used to sample the culvert well. Purging of the culvert well was conducted with a submersible pump placed in the lower third of the screened interval. The existing 4" PVC monitoring well was purged by handbailing using a disposable bailer. A minimum of three well-bore volumes was removed from both monitoring wells prior to sampling. The well-bore volumes were calculated in the field using the water level elevation and total depth information obtained prior to purging. The two monitoring wells demonstrated sufficient recharge during purging so as not to require a pause in purging to allow either well to recharge prior to sampling. Average purging rate was approximately 18 gallons per minute (gpm) for the culvert well and was less than 1 gpm for the 4" monitoring well. Due to the historical lack of significant concentrations of hazardous constituents, the purge water was discharged onto the ground surface.

The water samples, including the rinsate sample, were collected in pre-preserved jars provided by HEAL. Sample handling was documented on HEAL-provided chain-of-custody forms. All samples were immediately labeled and placed on ice in a cooler. Samples were shipped to HEAL by courier and received by the laboratory within holding time specifications. The samples were analyzed by the following methods:

EPA Method 8015M/D: Diesel Range Organics (DRO)

• EPA Method 8015D: Gasoline Range Organics (GRO)

EPA Method 8021B: Volatiles

EPA Method 8270C: Semivolatiles

With the exception of a detection of chloroform in the rinsate sample (1.6 μ g/L), there were no detections of any target analyte in any of the groundwater samples.

2.4 Suspected/Known Contaminants of Concern

As discussed in Section 2.3, the suspected contaminants of concern (COCs) are organic compounds typical of diesel fuel.

3.0 Proposed Performance Standards

The risk of harm posed by the Site to human health, safety, or the environment will be evaluated pursuant to Method 2 (20.6.3.10.B(2) NMAC). As discussed above in Section 2.3, with the exception of naphthalene in KMF-FT-9, the Site excavation was successful at removing all of the soil, fill, and sediment with concentrations above detection limits or SSLs for all CoCs to the water table.

A small area of diesel contaminated soil remains in the area of KMF-FT-9, with concentrations of Total Petroleum Hydrocarbons ("TPH") greater than residential screening levels of 1,000 mg/kg and industrial/occupational screening levels of 3,000 mg/kg for TPH (Table 2). However, based on the methodology presented in the NMED's 2019 *Risk Assessment Guidance for Site Investigations and Remediation, Volume I* ("Guidance"), all individual contaminants (i.e., not aggregated as with a TPH analysis) are well below specific NMED soil screening levels and therefore do not pose an unacceptable risk given residential or non-residential land uses. Soil-to-groundwater screening levels are exceeded for naphthalene. The site layout limits the extent of any remaining observed contamination to the south and north. The vertical extent of remaining contamination could extend to the water table. Depth to water at the site was measured at 7.5 ft. bsg in August, 2019, but probably fluctuates between 5 and 15 ft. bsg depending on the season, winter snowpack, and spring melt characteristics.

Human Health Assessment

NMED assesses human health risk from epidemiological factors for selected indicator contaminants. Risk calculations aggregate individual constituents at observed

concentrations by first comparing them to cancer and non-cancer soil screening levels. Expected health risks from each constituent are summed, yielding a collective site risk. Carcinogenic compounds are measured against an increased risk factor of 1 in 100,000, or 1 x 10⁻⁵. Non-cancer risk for indicator compounds is assessed in aggregate against a Site Hazard Index of 1. Because no constituents exceed residential or industrial soil screening levels (Table 2), the KMF site does not pose an unacceptable risk to human health. Based on the methodology presented in the *Guidance*, the calculated site risk at the KMF site is well below recommended action levels.

Groundwater

Groundwater infiltration risk is based on the highest concentration of each detected analyte and a highly conservative default dilution attenuation factor (DAF=20) recommended in the *Guidance*. Table 2 presents soil-to-groundwater screening levels and analytical results from the KMF site. Soil screening levels are exceeded at the default DAF for naphthalene at KMF-FT-9.

Within the excavation, the area of remaining contamination is along the south wall. While the total volume of soils likely to exceed groundwater SSLs cannot be precisely estimated, the risk to groundwater at the KMF site is substantially reduced by the limited volume of remaining contamination. GGI confirmed this by sampling groundwater from the temporary culvert well in the centroid of the contaminated area and from a nearby downgradient monitoring well. No target analytes were detected, further affirming that groundwater is not and likely will not be affected by the remaining contamination.

The performance standard at 20.6.3.10.B(2)(a) NMAC has therefore already been met for the vertical and horizontal extent of contamination, and for groundwater.

4.0 Summary of Proposed Sampling and Analysis

No future sampling and analysis is proposed because performance standards for both groundwater and soil have been met. Because the temporary CMP was emplaced in the excavation which was backfilled with two-inch crushed rock, we recommend the pipe's removal and further backfilling with additional two-inch crushed rock to grade.

5.0 Summary of Proposed Remediation

As discussed in Sections 2.3 and 3.0 of this PWP, remediation of vadose zone contamination is already complete. Groundwater was shown to be uncontaminated as evidenced by the results of samples collected in 2020.

6.0 How Proposed Activities Will Meet the VRP Performance Standards

As previously discussed, the performance standards at 20.6.2.10.B(2)(a) and (b) NMAC have already been met.

7.0 References

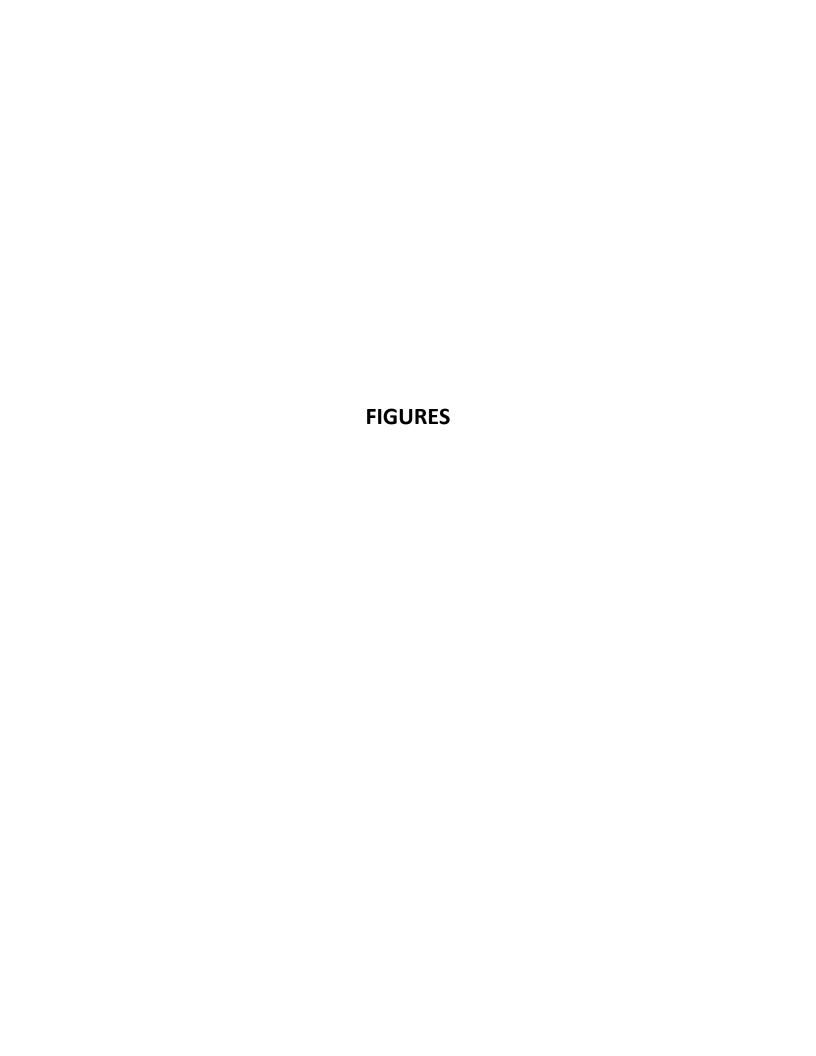
CDM, 1993. Preliminary Site Assessment, Taos Ski Valley, No. 4 Generator Site, Kachina Base, Taos Ski Valley, New Mexico.

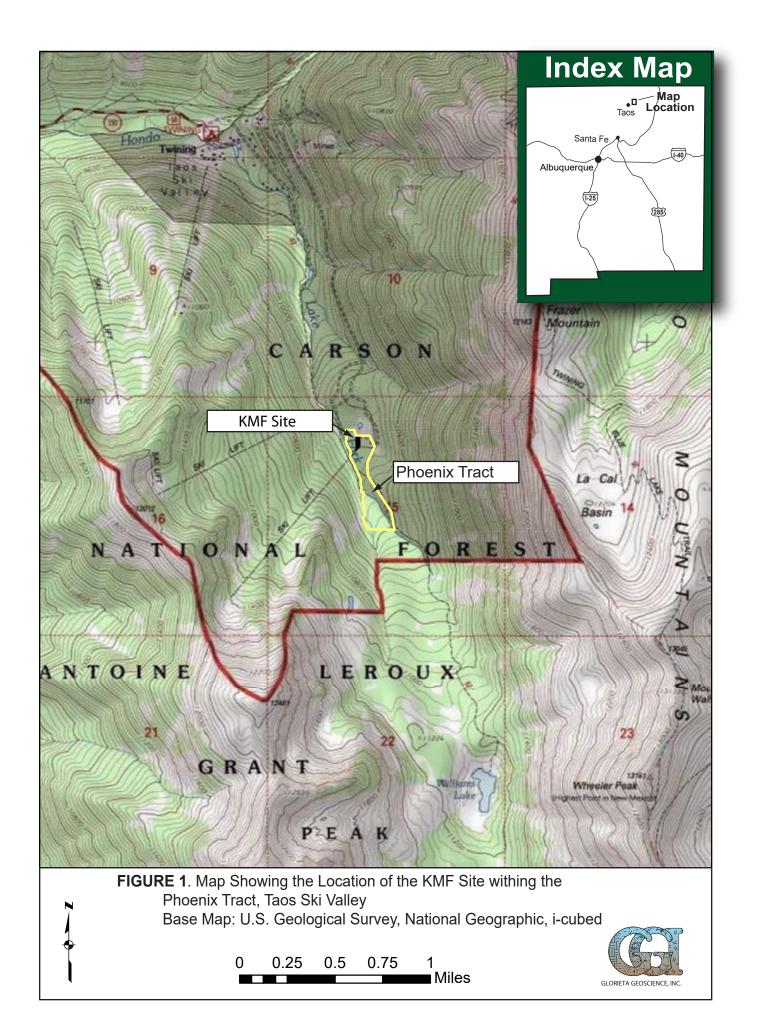
GGI, 2020, Phase 1 Environmental Site Assessment, Taos Ski Valley – Phoenix Tract, Taos Ski Valley, NM.

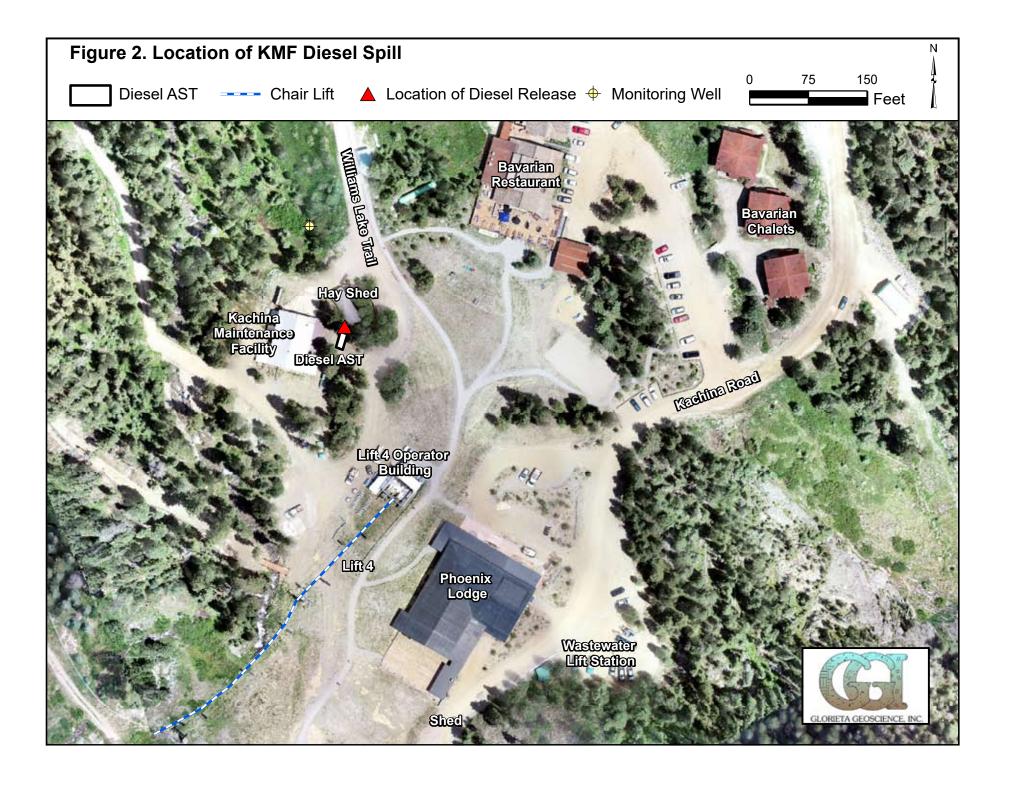
Attachments: Figures

Manifests

Laboratory Reports







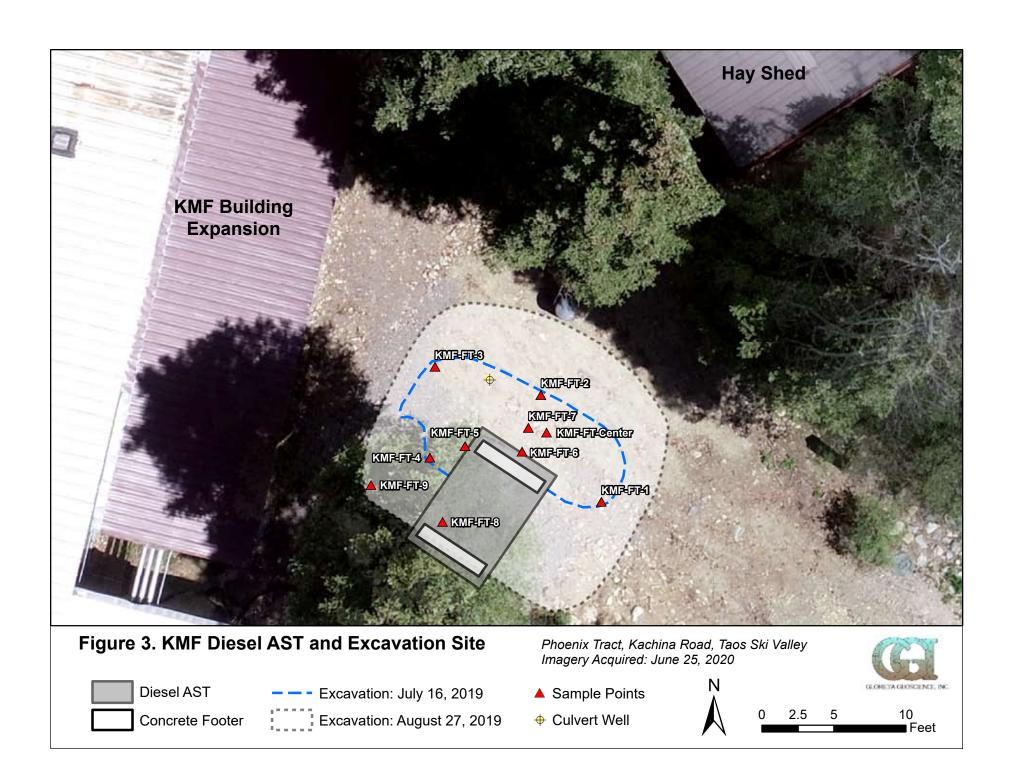
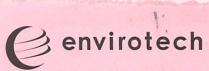


Figure 4. Cross-section through trench along KMF Diesel AST Excavation Site. Field sketch and samples taken July 16, 2019. Backfill KMF-FT-3 KMF-FT-1 ¬ 0 ft 2 ft 4 ft 6 ft Backfill: 3/4" crushed rock, 1/2' - 1' thickness - 8 ft Excavation: Orangish-brown soil with up to 1' boulders and sandy matrix 10 ft -19 ft -Sandy matrix Concrete Plant roots Distinct Cobbles Gravel in contact in sandy matrix sandy matrix No vertical exaggeration





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		ddress		Telephon					
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GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and the special waste, and that such waste has been managed, packaged, containerized and labeled in (Special Waste Requirements) in addition to any other applicable federal, state or local regulations					descr ce wit	ibed above on the require	by type and ements of 2	proper name of 0.9.8 NMAC	
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ORTER	Transporter 2 Acknowledgement of Receipt of S Printed/Typed Name:	Special Waste Signature:				Date:			
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	Transporter #2 Company Name Address Telephone No.							NEW COLOR
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	SPECIAL WASTE MANIFEST		SW-1	577	7					
	Generator's Name	Generator's Address	6 Sutton P	1,	Generate	or's Telep	hone No.			
	TAOS Ski VAlley	TAOS SKIVAL								
	Origin of Special Waste (Project or Spill I	ocation): VP T5V 875	_,							
Transporter #1 Company Name Address 576 vs 64 Formington My Telephone No. 576 vs 64 Formington My 505-632-0615										
	Transporter #2 Company Name	Address	Telephor							
	Destination Facility Name/Site Address 43 Roma 715 Bloomfield HM 87413	Facility ID (Permit) Number	Telephor		32-06	2-0615				
	Type and Proper Nam	e of Special Waste	Contair No.	er(s) Type	Total Quantity	Unit Wt/Vol				
GEN	Petroleum Contaminat	est soil	1	cm	20	yd3				
ERA							- 7 1			
ATO										
R		4								
	Addition	onal Descriptions for Special W	aste Listed Abo	ve:						
	Special Handling Instructions: TAPP	Lono								
			\mathbb{R}_{p}				140			
	GENERATOR'S CERTIFICATION: I hereby certify the special waste, and that such waste has been n (Special Waste Requirements) in addition to any o	nanaged, packaged, containerized and	l labeled in accorda							
	Printed/Typed Name: M M NCWEU	Signature: UMM	A		Date	4 NO	V 19			
TRANS	Transporter 1 Acknowledgement of Receipt Printed/Typed Name:	of Special Waste	· 2016		Date	-4-1	9			
TRANSPORTER	Transporter 2 Acknowledgement of Receipt Printed/Typed Name:	of Special Waste Signature:	1		Date	:				
R	Discrepancy Indication Space:									
FACIL					· Ale					
TIY	Facility Owner or Operator: I hereby acknowledge Discrepancy Indication Space.	ge receipt of the special waste as in	dicated upon this i	manife	st, except	as noted ab	ove in the			
	Printed/Typed Name:	Signature:	inson		Date //-	4-19				
57	96 U.S. Highway 64 • Farmington, NM 87401 • (505) 632-0615 Office				SAN	JUAN PRINTING 021941			





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

September 18, 2019

James Bearzi Glorieta GeoScience P.O. Box 5727 Santa Fe, NM 87502 TEL: FAX

RE: TSV KMF Fuel Tank OrderNo.: 1908I72

Dear James Bearzi:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/30/2019 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1908I72

Date Reported: 9/18/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: KMF-FT-8

Collection Date: 8/27/2019 1:35:00 PM TSV KMF Fuel Tank **Project:** 1908I72-001 Received Date: 8/30/2019 10:15:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	3300	97		mg/Kg	10	9/9/2019 12:25:20 PM	47254
Motor Oil Range Organics (MRO)	ND	490		mg/Kg	10	9/9/2019 12:25:20 PM	47254
Surr: DNOP	0	70-130	S	%Rec	10	9/9/2019 12:25:20 PM	47254
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	54	23		mg/Kg	5	9/5/2019 11:38:52 AM	47241
Surr: BFB	224	77.4-118	S	%Rec	5	9/5/2019 11:38:52 AM	47241
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.47	D	mg/Kg	5	9/5/2019 11:38:52 AM	47241
Benzene	ND	0.12	D	mg/Kg	5	9/5/2019 11:38:52 AM	47241
Toluene	ND	0.23	D	mg/Kg	5	9/5/2019 11:38:52 AM	47241
Ethylbenzene	ND	0.23	D	mg/Kg	5	9/5/2019 11:38:52 AM	47241
Xylenes, Total	ND	0.47	D	mg/Kg	5	9/5/2019 11:38:52 AM	47241
Surr: 4-Bromofluorobenzene	99.2	80-120	D	%Rec	5	9/5/2019 11:38:52 AM	47241
EPA METHOD 8310: PAHS						Analyst	: TOM
Naphthalene	ND	0.27		mg/Kg	1	9/10/2019 3:50:02 PM	47256
1-Methylnaphthalene	0.28	0.27		mg/Kg	1	9/10/2019 3:50:02 PM	47256
2-Methylnaphthalene	0.41	0.27		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Acenaphthylene	ND	0.27		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Acenaphthene	ND	0.27		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Fluorene	0.055	0.033		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Phenanthrene	0.068	0.016		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Anthracene	ND	0.016		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Fluoranthene	ND	0.022		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Pyrene	0.18	0.027		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Benz(a)anthracene	ND	0.011		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Chrysene	0.30	0.11		mg/Kg	10	9/17/2019 10:11:55 AM	47256
Benzo(b)fluoranthene	ND	0.011		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Benzo(k)fluoranthene	ND	0.011		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Benzo(a)pyrene	ND	0.011		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Dibenz(a,h)anthracene	ND	0.011		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Benzo(g,h,i)perylene	ND	0.011		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Indeno(1,2,3-cd)pyrene	ND	0.011		mg/Kg	1	9/10/2019 3:50:02 PM	47256
Surr: Benzo(e)pyrene	78.8	26.5-113		%Rec	1	9/10/2019 3:50:02 PM	47256

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

Lab Order **1908I72**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/18/2019

CLIENT: Glorieta GeoScience Client Sample ID: KMF-FT-9

Project: TSV KMF Fuel Tank
 Collection Date: 8/27/2019 2:20:00 PM

 Lab ID: 1908I72-002
 Matrix: SOIL
 Received Date: 8/30/2019 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst:	BRM
Diesel Range Organics (DRO)	4800	470		mg/Kg	50	9/9/2019 12:49:34 PM	47254
Motor Oil Range Organics (MRO)	ND	2400		mg/Kg	50	9/9/2019 12:49:34 PM	47254
Surr: DNOP	0	70-130	S	%Rec	50	9/9/2019 12:49:34 PM	47254
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	110	25		mg/Kg	5	9/5/2019 3:07:30 AM	47241
Surr: BFB	276	77.4-118	S	%Rec	5	9/5/2019 3:07:30 AM	47241
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.50		mg/Kg	5	9/5/2019 3:07:30 AM	47241
Benzene	ND	0.12		mg/Kg	5	9/5/2019 3:07:30 AM	47241
Toluene	ND	0.25		mg/Kg	5	9/5/2019 3:07:30 AM	47241
Ethylbenzene	ND	0.25		mg/Kg	5	9/5/2019 3:07:30 AM	47241
Xylenes, Total	2.5	0.50		mg/Kg	5	9/5/2019 3:07:30 AM	47241
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	5	9/5/2019 3:07:30 AM	47241
EPA METHOD 8310: PAHS						Analyst:	TOM
Naphthalene	0.24	0.22		mg/Kg	1	9/10/2019 5:06:36 PM	47256
1-Methylnaphthalene	0.51	0.22		mg/Kg	1	9/10/2019 5:06:36 PM	47256
2-Methylnaphthalene	0.92	0.22		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Acenaphthylene	ND	0.22		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Acenaphthene	ND	0.22		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Fluorene	0.072	0.027		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Phenanthrene	0.079	0.013		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Anthracene	ND	0.013		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Fluoranthene	ND	0.018		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Pyrene	0.18	0.022		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Benz(a)anthracene	ND	0.0090		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Chrysene	0.30	0.090		mg/Kg	10	9/17/2019 10:37:26 AM	47256
Benzo(b)fluoranthene	ND	0.0090		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Benzo(k)fluoranthene	ND	0.0090		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Benzo(a)pyrene	ND	0.0090		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Dibenz(a,h)anthracene	ND	0.0090		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Benzo(g,h,i)perylene	ND	0.0090		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Indeno(1,2,3-cd)pyrene	ND	0.0090		mg/Kg	1	9/10/2019 5:06:36 PM	47256
Surr: Benzo(e)pyrene	68.8	26.5-113		%Rec	1	9/10/2019 5:06:36 PM	47256

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908I72**

18-Sep-19

Client: Glorieta GeoScience
Project: TSV KMF Fuel Tank

Sample ID: LCS-47254 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 47254 RunNo: 62660 Prep Date: 9/4/2019 Analysis Date: 9/5/2019 SeqNo: 2133502 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) 10 0 47 50.00 93.4 63.9 124 Surr: DNOP 4.3 5.000 86.6 130

Sample ID: MB-47254 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 47254 RunNo: 62660 Prep Date: 9/4/2019 Analysis Date: 9/5/2019 SeqNo: 2133503 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10 10.00 101 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908I72**

18-Sep-19

Client: Glorieta GeoScience
Project: TSV KMF Fuel Tank

Sample ID: MB-47241 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 47241 RunNo: 62633

Prep Date: 9/3/2019 Analysis Date: 9/4/2019 SeqNo: 2132540 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 980 1000 98.2 77.4 118

Sample ID: LCS-47241 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 47241 RunNo: 62633

Prep Date: 9/3/2019 Analysis Date: 9/4/2019 SeqNo: 2132541 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 80 24 5.0 25.00 0 94.7 120 Surr: BFB 1200 1000 115 77.4 118

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908I72

18-Sep-19

Client: Glorieta GeoScience
Project: TSV KMF Fuel Tank

Sample ID: MB-47241 Client ID: PBS	SampType: MBLK Batch ID: 47241				tCode: El					
Prep Date: 9/3/2019	Analysis D	oate: 9/	4/2019	SeqNo: 2132575			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.5	80	120			

Sample ID: LCS-47241	Sampl	SampType: LCS TestCode: EPA Method 8						iles			
Client ID: LCSS	Batcl	n ID: 47 2	241	F	RunNo: 6	2633					
Prep Date: 9/3/2019	Analysis D	Date: 9/	4/2019	8	SeqNo: 2	132576	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	0.89	0.10	1.000	0	89.2	80	120				
Benzene	0.93	0.025	1.000	0	93.4	80	120				
Toluene	0.97	0.050	1.000	0	96.6	80	120				
Ethylbenzene	0.98	0.050	1.000	0	98.1	80	120				
Xylenes, Total	2.9	0.10	3.000	0	95.6	80	120				
Surr: 4-Bromofluorobenzene	0.91		1.000		91.3	80	120				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1908I72

18-Sep-19

Client: Glorieta GeoScience
Project: TSV KMF Fuel Tank

Sample ID: MB-47256 SampType: MBLK TestCode: EPA Method 8310: PAHs Client ID: PBS Batch ID: 47256 RunNo: 62790 Prep Date: 9/4/2019 Analysis Date: 9/10/2019 SeqNo: 2140703 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Naphthalene ND 0.25 1-Methylnaphthalene ND 0.25 2-Methylnaphthalene ND 0.25 Acenaphthylene ND 0.25 Acenaphthene ND 0.25 Fluorene ND 0.030 Phenanthrene ND 0.015 Anthracene ND 0.015 Fluoranthene ND 0.020 Pyrene ND 0.025 ND 0.010 Benz(a)anthracene ND 0.010 Chrysene ND 0.010 Benzo(b)fluoranthene Benzo(k)fluoranthene ND 0.010 Benzo(a)pyrene ND 0.010 0.010 Dibenz(a,h)anthracene ND ND 0.010 Benzo(g,h,i)perylene Indeno(1,2,3-cd)pyrene ND 0.010 Surr: Benzo(e)pyrene 0.29 0.5000 59.0 26.5 113

Sample ID: LCS-47256	Sampl	ype: LC	S	TestCode: EPA Method 8310: PAHs							
Client ID: LCSS	Batcl	h ID: 47 2	256	F	RunNo: 62	2790					
Prep Date: 9/4/2019	Analysis [Date: 9/	10/2019	S	SeqNo: 2	140704	Units: mg/k	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Naphthalene	1.3	0.25	2.000	0	65.1	27.2	80.9	•		•	
1-Methylnaphthalene	1.3	0.25	2.000	0	64.2	28.9	83.4				
2-Methylnaphthalene	1.3	0.25	2.000	0	64.3	28.7	83.5				
Acenaphthylene	1.3	0.25	2.000	0	62.7	32.3	90.7				
Acenaphthene	1.3	0.25	2.000	0	63.3	31.1	88.7				
Fluorene	0.12	0.030	0.2000	0	62.5	31.7	94.8				
Phenanthrene	0.065	0.015	0.1006	0	64.6	31.6	101				
Anthracene	0.066	0.015	0.1006	0	65.4	33.2	106				
Fluoranthene	0.13	0.020	0.2006	0	66.3	41	101				
Pyrene	0.13	0.025	0.2000	0	67.0	34.7	106				
Benz(a)anthracene	0.013	0.010	0.02000	0	66.2	42.3	106				
Chrysene	0.068	0.010	0.1006	0	68.1	42.8	108				
Benzo(b)fluoranthene	0.017	0.010	0.02500	0	67.0	35	107				
Benzo(k)fluoranthene	ND	0.010	0.01250	0	68.0	41.5	102				

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1908I72**

18-Sep-19

Client: Glorieta GeoScience
Project: TSV KMF Fuel Tank

Sample ID: LCS-47256	SampType: LCS			Tes	tCode: El					
Client ID: LCSS	Batch ID: 47256			F	RunNo: 6	2790				
Prep Date: 9/4/2019	Analysis D	Date: 9/	10/2019	S	SeqNo: 2	140704	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(a)pyrene	ND	0.010	0.01250	0	54.0	14.4	105			
Dibenz(a,h)anthracene	0.017	0.010	0.02500	0	67.0	42.9	105			
Benzo(g,h,i)perylene	0.016	0.010	0.02500	0	66.0	42.7	102			
Indeno(1,2,3-cd)pyrene	0.032	0.010	0.05002	0	64.5	42.3	103			
Surr: Benzo(e)pyrene	0.35		0.5000		69.3	26.5	113			

Sample ID: 1908I72-001AMS	SampType: MS TestCode: EPA Method 8310: PAHs									
Client ID: KMF-FT-8	Batc	h ID: 47 2	256	F	RunNo: 6	2790				
Prep Date: 9/4/2019	Analysis [Date: 9/	10/2019	\$	140706	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.5	0.26	2.041	0.09721	67.3	24.1	128			
1-Methylnaphthalene	1.7	0.26	2.041	0.2826	70.2	25.2	133			
2-Methylnaphthalene	1.8	0.26	2.041	0.4082	67.9	23.9	132			
Acenaphthylene	1.5	0.26	2.041	0	73.9	27.7	137			
Acenaphthene	1.4	0.26	2.041	0	69.5	24.6	131			
Fluorene	0.19	0.031	0.2041	0.05461	67.4	19.6	132			
Phenanthrene	0.13	0.015	0.1027	0.06772	57.0	23.6	148			
Anthracene	0.077	0.015	0.1027	0	75.3	25.6	134			
Fluoranthene	0.14	0.020	0.2047	0	69.2	26.8	148			
Pyrene	0.30	0.026	0.2041	0.1827	59.9	26.5	144			
Benz(a)anthracene	ND	0.010	0.02041	0	7.50	15.9	158			S
Chrysene	0.24	0.010	0.1027	0.2733	-34.7	22.5	150			ES
Benzo(b)fluoranthene	0.017	0.010	0.02551	0.003277	53.2	15	157			
Benzo(k)fluoranthene	ND	0.010	0.01276	0	66.0	15	173			
Benzo(a)pyrene	ND	0.010	0.01276	0	66.0	15	172			
Dibenz(a,h)anthracene	0.018	0.010	0.02551	0	70.0	21	160			
Benzo(g,h,i)perylene	0.017	0.010	0.02551	0	68.0	17.1	171			
Indeno(1,2,3-cd)pyrene	0.034	0.010	0.05104	0	66.5	15	178			
Surr: Benzo(e)pyrene	0.41		0.5102		79.9	26.5	113			

Sample ID: 1908I72-001AMSD	SampT	уре: М S	SD.	Tes	8310: PAHs					
Client ID: KMF-FT-8	Batch ID: 47256 RunNo: 62790									
Prep Date: 9/4/2019	Analysis D	ate: 9/	10/2019	9	SeqNo: 2	140707	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	1.6	0.27	2.194	0.09721	68.3	24.1	128	8.11	28.6	•
1-Methylnaphthalene	1.9	0.27	2.194	0.2826	74.1	25.2	133	10.6	28.1	
2-Methylnaphthalene	2.0	0.27	2.194	0.4082	72.3	23.9	132	10.6	28.5	
Acenaphthylene	1.7	0.27	2.194	0	76.3	27.7	137	10.5	28.6	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

0.42

0.5000

WO#: **1908I72**

18-Sep-19

Client: Glorieta GeoScience
Project: TSV KMF Fuel Tank

Sample ID: 1908I72-001AMS	D Samp	SampType: MSD TestCode: EPA Method 8310: PAHs									
Client ID: KMF-FT-8	Batc	h ID: 47 2	256	F	RunNo: 6	2790					
Prep Date: 9/4/2019	Analysis [Date: 9/	10/2019	5	SeqNo: 2	140707	Units: mg/K	Jnits: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Acenaphthene	1.6	0.27	2.194	0	71.7	24.6	131	10.4	30.4		
Fluorene	0.22	0.033	0.2194	0.05461	74.1	19.6	132	12.3	58.1		
Phenanthrene	0.15	0.016	0.1104	0.06772	70.3	23.6	148	14.1	27.7		
Anthracene	0.091	0.016	0.1104	0	82.8	25.6	134	16.6	29.1		
Fluoranthene	0.17	0.022	0.2201	0	75.4	26.8	148	15.8	26.3		
Pyrene	0.34	0.027	0.2194	0.1827	70.2	26.5	144	9.96	27	Е	
Benz(a)anthracene	ND	0.011	0.02194	0	7.50	15.9	158	0	29.4	S	
Chrysene	0.28	0.011	0.1104	0.2733	4.57	22.5	150	15.7	27.9	ES	
Benzo(b)fluoranthene	0.019	0.011	0.02743	0.003277	59.1	15	157	14.5	28.7		
Benzo(k)fluoranthene	ND	0.011	0.01371	0	68.0	15	173	0	28.3		
Benzo(a)pyrene	ND	0.011	0.01371	0	70.0	15	172	0	29.6		
Dibenz(a,h)anthracene	0.020	0.011	0.02743	0	72.0	21	160	10.1	29.5		
Benzo(g,h,i)perylene	0.019	0.011	0.02743	0	71.0	17.1	171	11.6	27.5		
Indeno(1,2,3-cd)pyrene	0.038	0.011	0.05488	0	69.5	15	178	11.6	28.5		
Surr: Benzo(e)pyrene	0.41		0.5485		75.2	26.5	113	0	20		
Sample ID: MB-47440	Samp	Туре: МЕ	BLK	Tes	tCode: E	PA Method	8310: PAHs				
Client ID: PBS	Batc	h ID: 47 4	440	F	RunNo: 6	2973					
Prep Date: 9/12/2019	Analysis [Date: 9/	17/2019	5	SeqNo: 2	147552	Units: %Red	;			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: Benzo(e)pyrene	0.28		0.5000		55.6	26.5	113				
Sample ID: LCS-47440	Samp	Type: LC	s	Tes	tCode: E	PA Method	8310: PAHs				
Client ID: LCSS	Batc	h ID: 474	440	RunNo: 62973							
Prep Date: 9/12/2019	Analysis [Date: 9/	17/2019	5	SeqNo: 2	147554	Units: %Red	;			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

Surr: Benzo(e)pyrene

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

84.0

26.5

113

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: **GGI** Work Order Number: 1908I72 RcptNo: 1 **Desiree Dominguez** Received By: 8/30/2019 10:15:00 AM Completed By: Michelle Garcia 8/30/2019 2:17:54 PM 8/30/19 Reviewed By: _70 Chain of Custody Yes 🗹 No 🗌 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? <u>UPS</u> Log In 3. Was an attempt made to cool the samples? Yes 🔽 No 🗌 NA 🗌 No 🗆 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 Sample(s) in proper container(s)? Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🔽 No 🗌 7. Are samples (except VOA and ONG) properly preserved? NA 🗌 No 🔽 8. Was preservative added to bottles? Yes 🗌 9. VOA vials have zero headspace? Yes \square No 🗌 No VOA Vials 🔽 10. Were any sample containers received broken? Yes No 🗹 # of preserved bottles checked for pH: Yes 🗹 No 🗌 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) justed? No 🗌 12. Are matrices correctly identified on Chain of Custody? ~ 13. Is it clear what analyses were requested? ✓ No 🗌 Yes 14. Were all holding times able to be met? Yes 🗹 Νo (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information

Seal Date

Signed By

Cooler No

Temp °C

0.6

Condition

Yes

Good

Seal Intact | Seal No

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1) PAHs by 8310 or 8270SIMS CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	* X	× * *	o-contracted data will be clearly notated on the analytical report.
4901 Hi	TPH:8015D(GRO / DRO / MRO)	XX	XXX	Remarks:
Turn-Around Time: Standard Rush Project Name:	Project Manager: Project Manager: Paralimater Paral	2x402 None -00) X	2x Yoz Vene -002 X Zx Yoz Nene X Zx Yox None X	Time: Relinquished by: 136
Chain-of-Custody Record Client: (starieta (2002 ience, Inc.) Mailing Address: 1723 200 54. Santa Fe, 1111 87505 Phone #: \$25.694.2136	email or Fax#: jumes (Da loric lageo com QA/QC Package: Accreditation:	8/24/9 (335 Soil KMF-FT-8	8/23/11 1/20 So. 1 KMF-FT-9 8/23/49 So. 7 KMF-FT- 8/27/4 So. 1 KMF-FT-	Date: Time: Relinguished by: L L L L L L L L L L L L L L L L L L L



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

August 01, 2019

James Bearzi Glorieta GeoScience P.O. Box 5727 Santa Fe, NM 87502

TEL: (505) 983-5446 FAX: (505) 983-6482

RE: TSV KMF OrderNo.: 1907902

Dear James Bearzi:

Hall Environmental Analysis Laboratory received 8 sample(s) on 7/17/2019 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience Client Sample ID: KMF Center

Project: TSV KMF
 Collection Date: 7/16/2019 10:10:00 AM

 Lab ID: 1907902-001
 Matrix: SOIL
 Received Date: 7/17/2019 1:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	11000	950		mg/Kg	100	7/24/2019 9:13:39 AM	46265
Motor Oil Range Organics (MRO)	ND	4800		mg/Kg	100	7/24/2019 9:13:39 AM	46265
Surr: DNOP	0	70-130	S	%Rec	100	7/24/2019 9:13:39 AM	46265
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	94	24		mg/Kg	5	7/23/2019 1:05:01 PM	46308
Surr: BFB	278	73.8-119	S	%Rec	5	7/23/2019 1:05:01 PM	46308
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.49		mg/Kg	5	7/23/2019 1:05:01 PM	46308
Benzene	ND	0.12		mg/Kg	5	7/23/2019 1:05:01 PM	46308
Toluene	ND	0.24		mg/Kg	5	7/23/2019 1:05:01 PM	46308
Ethylbenzene	ND	0.24		mg/Kg	5	7/23/2019 1:05:01 PM	46308
Xylenes, Total	1.1	0.49		mg/Kg	5	7/23/2019 1:05:01 PM	46308
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	5	7/23/2019 1:05:01 PM	46308
EPA METHOD 8270C: PAHS						Analyst	JDC
Naphthalene	0.55	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
1-Methylnaphthalene	1.6	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
2-Methylnaphthalene	1.6	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Acenaphthylene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Acenaphthene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Fluorene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Phenanthrene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Anthracene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Fluoranthene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Pyrene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Benz(a)anthracene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Chrysene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Benzo(b)fluoranthene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Benzo(k)fluoranthene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Benzo(a)pyrene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Dibenz(a,h)anthracene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Benzo(g,h,i)perylene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Indeno(1,2,3-cd)pyrene	ND	0.41	D	mg/Kg	10	7/31/2019 1:55:07 PM	46392
Surr: N-hexadecane	0	38.8-100	SD	%Rec	10	7/31/2019 1:55:07 PM	46392
Surr: Benzo(e)pyrene	0	38.5-107	SD	%Rec	10	7/31/2019 1:55:07 PM	46392

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: KMF-FT-1

 Project:
 TSV KMF
 Collection Date: 7/16/2019 1:05:00 PM

 Lab ID:
 1907902-002
 Matrix: SOIL
 Received Date: 7/17/2019 1:20:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/24/2019 9:37:44 AM	46265
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/24/2019 9:37:44 AM	46265
Surr: DNOP	102	70-130	%Rec	1	7/24/2019 9:37:44 AM	46265
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/23/2019 3:02:34 PM	46308
Surr: BFB	91.8	73.8-119	%Rec	1	7/23/2019 3:02:34 PM	46308
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	7/23/2019 3:02:34 PM	46308
Benzene	ND	0.024	mg/Kg	1	7/23/2019 3:02:34 PM	46308
Toluene	ND	0.049	mg/Kg	1	7/23/2019 3:02:34 PM	46308
Ethylbenzene	ND	0.049	mg/Kg	1	7/23/2019 3:02:34 PM	46308
Xylenes, Total	ND	0.098	mg/Kg	1	7/23/2019 3:02:34 PM	46308
Surr: 4-Bromofluorobenzene	89.6	80-120	%Rec	1	7/23/2019 3:02:34 PM	46308
EPA METHOD 8270C: PAHS					Analyst	: JDC
Naphthalene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
1-Methylnaphthalene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
2-Methylnaphthalene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Acenaphthylene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Acenaphthene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Fluorene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Phenanthrene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Anthracene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Fluoranthene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Pyrene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Benz(a)anthracene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Chrysene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Benzo(b)fluoranthene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Benzo(k)fluoranthene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Benzo(a)pyrene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Dibenz(a,h)anthracene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Benzo(g,h,i)perylene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Indeno(1,2,3-cd)pyrene	ND	0.021	mg/Kg	1	7/31/2019 2:19:21 PM	46392
Surr: N-hexadecane	65.2	38.8-100	%Rec	1	7/31/2019 2:19:21 PM	46392
Surr: Benzo(e)pyrene	71.8	38.5-107	%Rec	1	7/31/2019 2:19:21 PM	46392

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 14

Date Reported: 8/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: KMF-FT-2

 Project:
 TSV KMF
 Collection Date: 7/16/2019 1:10:00 PM

 Lab ID:
 1907902-003
 Matrix: SOIL
 Received Date: 7/17/2019 1:20:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	7/24/2019 10:01:44 AM	46265
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/24/2019 10:01:44 AM	46265
Surr: DNOP	107	70-130	%Rec	1	7/24/2019 10:01:44 AM	46265
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/23/2019 7:22:25 PM	46308
Surr: BFB	95.7	73.8-119	%Rec	1	7/23/2019 7:22:25 PM	46308
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	7/23/2019 7:22:25 PM	46308
Benzene	ND	0.025	mg/Kg	1	7/23/2019 7:22:25 PM	46308
Toluene	ND	0.049	mg/Kg	1	7/23/2019 7:22:25 PM	46308
Ethylbenzene	ND	0.049	mg/Kg	1	7/23/2019 7:22:25 PM	46308
Xylenes, Total	ND	0.098	mg/Kg	1	7/23/2019 7:22:25 PM	46308
Surr: 4-Bromofluorobenzene	95.7	80-120	%Rec	1	7/23/2019 7:22:25 PM	46308
EPA METHOD 8270C: PAHS					Analyst	: JDC
Naphthalene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
1-Methylnaphthalene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
2-Methylnaphthalene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Acenaphthylene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Acenaphthene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Fluorene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Phenanthrene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Anthracene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Fluoranthene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Pyrene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Benz(a)anthracene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Chrysene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Benzo(b)fluoranthene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Benzo(k)fluoranthene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Benzo(a)pyrene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Dibenz(a,h)anthracene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Benzo(g,h,i)perylene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Indeno(1,2,3-cd)pyrene	ND	0.019	mg/Kg	1	7/31/2019 2:43:37 PM	46392
Surr: N-hexadecane	70.1	38.8-100	%Rec	1	7/31/2019 2:43:37 PM	46392
Surr: Benzo(e)pyrene	77.5	38.5-107	%Rec	1	7/31/2019 2:43:37 PM	46392

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: KMF-FT-3

 Project:
 TSV KMF
 Collection Date: 7/16/2019 1:15:00 PM

 Lab ID:
 1907902-004
 Matrix: SOIL
 Received Date: 7/17/2019 1:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/24/2019 10:25:53 AM	46265
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2019 10:25:53 AM	46265
Surr: DNOP	108	70-130		%Rec	1	7/24/2019 10:25:53 AM	l 46265
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/23/2019 7:46:03 PM	46308
Surr: BFB	95.9	73.8-119		%Rec	1	7/23/2019 7:46:03 PM	46308
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.099		mg/Kg	1	7/23/2019 7:46:03 PM	46308
Benzene	ND	0.025		mg/Kg	1	7/23/2019 7:46:03 PM	46308
Toluene	ND	0.049		mg/Kg	1	7/23/2019 7:46:03 PM	46308
Ethylbenzene	ND	0.049		mg/Kg	1	7/23/2019 7:46:03 PM	46308
Xylenes, Total	0.20	0.099		mg/Kg	1	7/23/2019 7:46:03 PM	46308
Surr: 4-Bromofluorobenzene	94.0	80-120		%Rec	1	7/23/2019 7:46:03 PM	46308
EPA METHOD 8270C: PAHS						Analyst	: JDC
Naphthalene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
1-Methylnaphthalene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
2-Methylnaphthalene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Acenaphthylene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Acenaphthene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Fluorene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Phenanthrene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Anthracene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Fluoranthene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Pyrene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Benz(a)anthracene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Chrysene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Benzo(b)fluoranthene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Benzo(k)fluoranthene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Benzo(a)pyrene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Dibenz(a,h)anthracene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Benzo(g,h,i)perylene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Indeno(1,2,3-cd)pyrene	ND	0.040	D	mg/Kg	1	7/31/2019 3:07:53 PM	46392
Surr: N-hexadecane	111	38.8-100	SD	%Rec	1	7/31/2019 3:07:53 PM	46392
Surr: Benzo(e)pyrene	108	38.5-107	SD	%Rec	1	7/31/2019 3:07:53 PM	46392

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: KMF-FT-4

 Project:
 TSV KMF
 Collection Date: 7/16/2019 1:20:00 PM

 Lab ID:
 1907902-005
 Matrix: SOIL
 Received Date: 7/17/2019 1:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	26	10		mg/Kg	1	7/24/2019 10:49:56 AM	46265
Motor Oil Range Organics (MRO)	88	51		mg/Kg	1	7/24/2019 10:49:56 AM	46265
Surr: DNOP	129	70-130		%Rec	1	7/24/2019 10:49:56 AM	46265
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/23/2019 8:09:37 PM	46308
Surr: BFB	94.2	73.8-119		%Rec	1	7/23/2019 8:09:37 PM	46308
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10		mg/Kg	1	7/23/2019 8:09:37 PM	46308
Benzene	ND	0.025		mg/Kg	1	7/23/2019 8:09:37 PM	46308
Toluene	ND	0.050		mg/Kg	1	7/23/2019 8:09:37 PM	46308
Ethylbenzene	ND	0.050		mg/Kg	1	7/23/2019 8:09:37 PM	46308
Xylenes, Total	ND	0.10		mg/Kg	1	7/23/2019 8:09:37 PM	46308
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	7/23/2019 8:09:37 PM	46308
EPA METHOD 8270C: PAHS						Analyst	JDC
Naphthalene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
1-Methylnaphthalene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
2-Methylnaphthalene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Acenaphthylene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Acenaphthene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Fluorene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Phenanthrene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Anthracene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Fluoranthene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Pyrene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Benz(a)anthracene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Chrysene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Benzo(b)fluoranthene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Benzo(k)fluoranthene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Benzo(a)pyrene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Dibenz(a,h)anthracene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Benzo(g,h,i)perylene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Indeno(1,2,3-cd)pyrene	ND	0.039	D	mg/Kg	1	7/30/2019 8:29:58 PM	46392
Surr: N-hexadecane	73.1	38.8-100	D	%Rec	1	7/30/2019 8:29:58 PM	46392
Surr: Benzo(e)pyrene	83.6	38.5-107	D	%Rec	1	7/30/2019 8:29:58 PM	46392

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience Client Sample ID: KMF-FT-5

 Project:
 TSV KMF
 Collection Date: 7/16/2019 1:20:00 PM

 Lab ID:
 1907902-006
 Matrix: SOIL
 Received Date: 7/17/2019 1:20:00 PM

Analyses	Result	RL	Qual	Units	DF D	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	BRM
Diesel Range Organics (DRO)	19000	940		mg/Kg	100	7/25/2019 11:03:53 AM	46265
Motor Oil Range Organics (MRO)	ND	4700		mg/Kg	100	7/25/2019 11:03:53 AM	46265
Surr: DNOP	0	70-130	S	%Rec	100	7/25/2019 11:03:53 AM	46265
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	470	24		mg/Kg	5	7/23/2019 1:28:30 PM	46308
Surr: BFB	669	73.8-119	S	%Rec	5	7/23/2019 1:28:30 PM	46308
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Methyl tert-butyl ether (MTBE)	ND	0.48		mg/Kg	5	7/23/2019 1:28:30 PM	46308
Benzene	ND	0.12		mg/Kg	5	7/23/2019 1:28:30 PM	46308
Toluene	5.0	0.24		mg/Kg	5	7/23/2019 1:28:30 PM	46308
Ethylbenzene	5.8	0.24		mg/Kg	5	7/23/2019 1:28:30 PM	46308
Xylenes, Total	26	0.48		mg/Kg	5	7/23/2019 1:28:30 PM	46308
Surr: 4-Bromofluorobenzene	139	80-120	S	%Rec	5	7/23/2019 1:28:30 PM	46308
EPA METHOD 8270C: PAHS						Analyst	JDC
Naphthalene	2.7	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
1-Methylnaphthalene	4.3	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
2-Methylnaphthalene	5.8	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Acenaphthylene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Acenaphthene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Fluorene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Phenanthrene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Anthracene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Fluoranthene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Pyrene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Benz(a)anthracene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Chrysene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Benzo(b)fluoranthene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Benzo(k)fluoranthene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Benzo(a)pyrene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Dibenz(a,h)anthracene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Benzo(g,h,i)perylene	ND	1.9	D	mg/Kg	10	7/31/2019 3:32:08 PM	46392
Indeno(1,2,3-cd)pyrene	ND	1.9	D	mg/Kg	_	7/31/2019 3:32:08 PM	46392
Surr: N-hexadecane	0	38.8-100	SD	%Rec	10	7/31/2019 3:32:08 PM	46392
Surr: Benzo(e)pyrene	0	38.5-107	SD	%Rec	10	7/31/2019 3:32:08 PM	46392

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: KMF-FT-6

 Project:
 TSV KMF
 Collection Date: 7/16/2019 1:25:00 PM

 Lab ID:
 1907902-007
 Matrix: SOIL
 Received Date: 7/17/2019 1:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	22000	880		mg/Kg	100	7/24/2019 2:44:06 PM	46265
Motor Oil Range Organics (MRO)	ND	4400		mg/Kg	100	7/24/2019 2:44:06 PM	46265
Surr: DNOP	0	70-130	S	%Rec	100	7/24/2019 2:44:06 PM	46265
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	860	94		mg/Kg	20	7/23/2019 1:52:02 PM	46308
Surr: BFB	366	73.8-119	S	%Rec	20	7/23/2019 1:52:02 PM	46308
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	1.9		mg/Kg	20	7/23/2019 1:52:02 PM	46308
Benzene	0.68	0.47		mg/Kg	20	7/23/2019 1:52:02 PM	46308
Toluene	10	0.94		mg/Kg	20	7/23/2019 1:52:02 PM	46308
Ethylbenzene	11	0.94		mg/Kg	20	7/23/2019 1:52:02 PM	46308
Xylenes, Total	42	1.9		mg/Kg	20	7/23/2019 1:52:02 PM	46308
Surr: 4-Bromofluorobenzene	121	80-120	S	%Rec	20	7/23/2019 1:52:02 PM	46308
EPA METHOD 8270C: PAHS						Analyst	JDC
Naphthalene	2.5	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
1-Methylnaphthalene	3.9	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
2-Methylnaphthalene	6.2	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Acenaphthylene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Acenaphthene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Fluorene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Phenanthrene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Anthracene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Fluoranthene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Pyrene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Benz(a)anthracene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Chrysene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Benzo(b)fluoranthene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Benzo(k)fluoranthene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Benzo(a)pyrene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Dibenz(a,h)anthracene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Benzo(g,h,i)perylene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Indeno(1,2,3-cd)pyrene	ND	2.0	D	mg/Kg	10	7/31/2019 3:56:24 PM	46392
Surr: N-hexadecane	0	38.8-100	SD	%Rec	10	7/31/2019 3:56:24 PM	46392
Surr: Benzo(e)pyrene	0	38.5-107	SD	%Rec	10	7/31/2019 3:56:24 PM	46392

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/1/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience Client Sample ID: KMF-FT-7

 Project:
 TSV KMF
 Collection Date: 7/16/2019 1:30:00 PM

 Lab ID:
 1907902-008
 Matrix: SOIL
 Received Date: 7/17/2019 1:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	BRM
Diesel Range Organics (DRO)	70000	940		mg/Kg	100	7/24/2019 3:08:22 PM	46265
Motor Oil Range Organics (MRO)	ND	4700		mg/Kg	100	7/24/2019 3:08:22 PM	46265
Surr: DNOP	0	70-130	S	%Rec	100	7/24/2019 3:08:22 PM	46265
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	1300	47		mg/Kg	10	7/23/2019 2:15:35 PM	46308
Surr: BFB	689	73.8-119	S	%Rec	10	7/23/2019 2:15:35 PM	46308
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.94		mg/Kg	10	7/23/2019 2:15:35 PM	46308
Benzene	2.7	0.24		mg/Kg	10	7/23/2019 2:15:35 PM	46308
Toluene	31	0.47		mg/Kg	10	7/23/2019 2:15:35 PM	46308
Ethylbenzene	26	0.47		mg/Kg	10	7/23/2019 2:15:35 PM	46308
Xylenes, Total	99	0.94		mg/Kg	10	7/23/2019 2:15:35 PM	46308
Surr: 4-Bromofluorobenzene	160	80-120	S	%Rec	10	7/23/2019 2:15:35 PM	46308
EPA METHOD 8270C: PAHS						Analyst	: JDC
Naphthalene	23	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
1-Methylnaphthalene	34	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
2-Methylnaphthalene	40	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Acenaphthylene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Acenaphthene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Fluorene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Phenanthrene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Anthracene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Fluoranthene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Pyrene	9.3	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Benz(a)anthracene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Chrysene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Benzo(b)fluoranthene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Benzo(k)fluoranthene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Benzo(a)pyrene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Dibenz(a,h)anthracene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Benzo(g,h,i)perylene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Indeno(1,2,3-cd)pyrene	ND	3.9	D	mg/Kg	20	7/31/2019 4:20:40 PM	46392
Surr: N-hexadecane	0	38.8-100	SD	%Rec	20	7/31/2019 4:20:40 PM	46392
Surr: Benzo(e)pyrene	0	38.5-107	SD	%Rec	20	7/31/2019 4:20:40 PM	46392

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 7/25/2019

Result

4.3

WO#: **1907902**

01-Aug-19

Client: Glorieta GeoScience

Project: TSV KMF

Prep Date: 7/23/2019

Analyte

Surr: DNOP

Sample ID: LCS-46265	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 46	265	F	RunNo: 6	1511				
Prep Date: 7/18/2019	Analysis D	Date: 7/	19/2019	9	SeqNo: 2	085370	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.6	63.9	124			
Surr: DNOP	4.0		5.000		80.9	70	130			
Sample ID: MB-46265	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 46	265	F	RunNo: 6	1511				
Prep Date: 7/18/2019	Analysis D	Date: 7/	19/2019	8	SeqNo: 2	085380	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.0	70	130			
Sample ID: LCS-46344	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS		n ID: 46 :				1604				

Sample ID: MB-46344	SampType: MBLK	TestCode: E	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 46344	RunNo: 6	1604					
Prep Date: 7/23/2019	Analysis Date: 7/25/2019	SeqNo: 2	2089025	Units: %Rec				
Analyte	Result PQL SPK va	lue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	11 10	.00 111	70	130				

SPK value SPK Ref Val %REC

5.000

SeqNo: 2089021

85.8

LowLimit

70

Units: %Rec

HighLimit

130

%RPD

RPDLimit

Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907902**

01-Aug-19

Client: Glorieta GeoScience

Project: TSV KMF

Sample ID: MB-46308 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 46308 RunNo: 61588

Prep Date: 7/22/2019 Analysis Date: 7/23/2019 SeqNo: 2087823 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 950 1000 95.1 73.8 119

Sample ID: LCS-46308 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 46308 RunNo: 61588

Prep Date: 7/22/2019 Analysis Date: 7/23/2019 SeqNo: 2087824 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 5.0 25.00 O 92.2 80.1 123

 Gasoline Range Organics (GRO)
 23
 5.0
 25.00
 0
 92.2
 80.1
 123

 Surr: BFB
 1000
 1000
 104
 73.8
 119

Sample ID: MB-46343 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 46343 RunNo: 61629

Prep Date: 7/23/2019 Analysis Date: 7/24/2019 SeqNo: 2088935 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1100 1000 106 73.8 119

Sample ID: LCS-46343 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 46343 RunNo: 61629

Prep Date: 7/23/2019 Analysis Date: 7/24/2019 SeqNo: 2088936 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1200 1000 118 73.8 119

Qualifiers:

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 14

Hall Environmental Analysis Laboratory, Inc.

WO#: **1907902**

01-Aug-19

Client: Glorieta GeoScience

Project: TSV KMF

Sample ID: MB-46308	SampT	уре: МЕ	BLK	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch	n ID: 46	308	F	tunNo: 6	1588				
Prep Date: 7/22/2019	Analysis D	ate: 7/	23/2019	S	SeqNo: 20	087848	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	80	120			

Sample ID: LCS-46308	SampT	ype: LC	pe: LCS TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batcl	n ID: 46	308	F	RunNo: 6					
Prep Date: 7/22/2019	Analysis D	ate: 7/ 2	23/2019	8	SeqNo: 20	087849	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.91	0.10	1.000	0	90.8	80	120			
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	80	120			

Sample ID: 1907902-002AMS	SampT	SampType: MS TestCode: EPA Method 8021B: Volatiles								
Client ID: KMF-FT-1	Batcl	Batch ID: 46308 RunNo: 61588								
Prep Date: 7/22/2019	Analysis D	Date: 7/ 2	23/2019	9	SeqNo: 20	087852	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.82	0.099	0.9872	0	82.7	51.7	125			
Benzene	0.92	0.025	0.9872	0	93.1	63.9	127			
Toluene	0.99	0.049	0.9872	0	100	69.9	131			
Ethylbenzene	1.0	0.049	0.9872	0	102	71	132			
Xylenes, Total	3.0	0.099	2.962	0.01709	102	71.8	131			
Surr: 4-Bromofluorobenzene	0.94		0.9872		95.0	80	120			

Sample ID: 1907902-002AMSD	SampT	уре: МЅ	SD.	Tes	d 8021B: Volatiles					
Client ID: KMF-FT-1	Batch	Batch ID: 46308 RunNo: 61588								
Prep Date: 7/22/2019	Analysis D	Analysis Date: 7/23/2019 SeqNo: 2087853 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.84	0.099	0.9881	0	84.9	51.7	125	2.71	20	
Benzene	0.92	0.025	0.9881	0	93.6	63.9	127	0.624	20	
Toluene	0.99	0.049	0.9881	0	100	69.9	131	0.129	20	
Ethylbenzene	1.0	0.049	0.9881	0	101	71	132	1.01	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1907902**

01-Aug-19

Client: Glorieta GeoScience

Project: TSV KMF

Sample ID: 1907902-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **KMF-FT-1** Batch ID: **46308** RunNo: **61588**

Prep Date: 7/22/2019 Analysis Date: 7/23/2019 SeqNo: 2087853 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 0.01709 Xylenes, Total 3.0 0.099 2.964 99.9 71.8 131 1.53 20 Surr: 4-Bromofluorobenzene 0.91 0.9881 92.1 120 0

Sample ID: MB-46343 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 46343 RunNo: 61629

Prep Date: 7/23/2019 Analysis Date: 7/24/2019 SeqNo: 2088963 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.89 1.000 89.5 80 120

Sample ID: LCS-46343 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 46343 RunNo: 61629

Prep Date: 7/23/2019 Analysis Date: 7/24/2019 SeqNo: 2088964 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.96 1.000 96.4 80 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1907902

01-Aug-19

Client: Glorieta GeoScience

Project: TSV KMF

Sample ID: Ics-46392	Samp	Type: LC	S	Tes	tCode: El	PA Method	8270C: PAH:	5		
Client ID: LCSS	Batcl	h ID: 46 :	392	F	RunNo: 6	1759				
Prep Date: 7/25/2019	Analysis D	Date: 7/	30/2019	5	SeqNo: 2	093667	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	0.26	0.020	0.3300	0	79.4	33.5	118			
1-Methylnaphthalene	0.26	0.020	0.3300	0	79.2	41	120			
2-Methylnaphthalene	0.28	0.020	0.3300	0	83.6	38.1	116			
Acenaphthylene	0.21	0.020	0.3300	0	63.6	34.2	120			
Acenaphthene	0.22	0.020	0.3300	0	67.7	43.8	118			
Fluorene	0.24	0.020	0.3300	0	71.6	48.1	122			
Phenanthrene	0.28	0.020	0.3300	0	83.4	56.6	115			
Anthracene	0.26	0.020	0.3300	0	77.9	54.6	125			
Fluoranthene	0.30	0.020	0.3300	0	90.0	61.9	120			
Pyrene	0.25	0.020	0.3300	0	77.0	59.3	120			
Benz(a)anthracene	0.26	0.020	0.3300	0	77.7	54.4	121			
Chrysene	0.21	0.020	0.3300	0	62.2	48.5	113			
Benzo(b)fluoranthene	0.30	0.020	0.3300	0	90.7	60.2	120			
Benzo(k)fluoranthene	0.28	0.020	0.3300	0	86.3	60.2	131			
Benzo(a)pyrene	0.30	0.020	0.3300	0	89.5	51.6	127			
Dibenz(a,h)anthracene	0.27	0.020	0.3300	0	82.7	49.9	120			
Benzo(g,h,i)perylene	0.32	0.020	0.3300	0	97.9	56.8	117			
Indeno(1,2,3-cd)pyrene	0.29	0.020	0.3300	0	89.3	60.2	132			
Surr: N-hexadecane	1.1		1.460		76.1	38.8	100			
Surr: Benzo(e)pyrene	0.27		0.3300		81.9	38.5	107			
Sample ID: mb-46392	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8270C: PAH:	<u> </u>		

Sample ID: mb-46392	SampT	ype: ME	BLK	Tes	tCode: El	•				
Client ID: PBS	Batch	ID: 46	392	R	RunNo: 6	1804				
Prep Date: 7/25/2019	Analysis D	ate: 7/	31/2019	S	SeqNo: 20	095198	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Naphthalene	ND	0.020								
1-Methylnaphthalene	ND	0.020								
2-Methylnaphthalene	ND	0.020								
Acenaphthylene	ND	0.020								
Acenaphthene	ND	0.020								
Fluorene	ND	0.020								
Phenanthrene	ND	0.020								
Anthracene	ND	0.020								
Fluoranthene	ND	0.020								
Pyrene	ND	0.020								
Benz(a)anthracene	ND	0.020								
Chrysene	ND	0.020								

Qualifiers:

Benzo(b)fluoranthene

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND

0.020

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1907902**

01-Aug-19

Client: Glorieta GeoScience

Project: TSV KMF

Sample ID: mb-46392	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8270C: PAHs	5		
Client ID: PBS Batch ID: 46392			F	RunNo: 6	1804					
Prep Date: 7/25/2019	7/25/2019 Analysis Date: 7/31/2019			\$	SeqNo: 2	095198	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	ND	0.020								
Benzo(a)pyrene	ND	0.020								
Dibenz(a,h)anthracene	ND	0.020								
Benzo(g,h,i)perylene	ND	0.020								
Indeno(1,2,3-cd)pyrene	ND	0.020								
Surr: N-hexadecane	1.1		1.460		75.2	38.8	100			
Surr: Benzo(e)pyrene	0.26		0.3300		79.9	38.5	107			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 14



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: GGI Work Order Number: 1907902 RcptNo: 1 Received By: **Desiree Dominguez** 7/17/2019 1:20:00 PM Completed By: 7/18/2019 11:42:41 AM **Anne Thorne** 07/18/19 Reviewed By: Chain of Custody No 🗌 1. Is Chain of Custody complete? Yes 🔽 Not Present 2. How was the sample delivered? Courier Log In No 🗌 NA 🗆 3. Was an attempt made to cool the samples? Yes 🗸 No 🗆 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗹 Yes 🗸 Nο Sufficient sample volume for indicated test(s)? Yes 🗹 Νo 7. Are samples (except VOA and ONG) properly preserved? No 🔽 NA 🗌 Yes 8. Was preservative added to bottles? Yes 🗌 No 🗌 No VOA Vials 9. VOA vials have zero headspace? Yes \square No 🗹 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🔽 No for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Yes 🔽 Adjuste No 12. Are matrices correctly identified on Chain of Custody? Yes 🔽 No 🗌 13. Is it clear what analyses were requested? Checked by: 14. Were all holding times able to be met? Yes 🗹 No 🗀 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🔲 NA 🗹 No 🗌 Person Notified: Date By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By 2.9

	HALL ENVIKONMENTAL ANALYSTS LABORATORY		4901 Hawkins NE - Albuquerque, NM 87109		Anal	†O	SMIS S, to Oc	(2ON	lo 0 sla ,EC	S31 NC (/	Λ 8 Ν , Βι, (VΟν)	РАН. СІ, F 8260 8260	*	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	λ A	<u> </u>	7	, , , ,	3	7.				
	1. A. J.		4901 H	Tel. 50			CB.8) \ WB(8 (805)	N DR	BC)(C	12108	тьн:	X	マンド	X 5	1 1/2	1 3 7	メメ	<u> </u>	ーーメータ			Remarks:	S
Turn-Around Time:	Standard 🗆 Rush	Project Name:	GO DU-KNT	Project #:		imes P. Benzi	5.699.2136 50 4100 challes	1: James Searzi	M. Yes	575 6.	inp(including CF): A. イトワンプイトロングイトロングイトロングイトロングイトロングイトロングイトロングイトロング	Container Preservative HEAL No. Type and # Type $ \mathcal{A}02$	4002-x2 Nane 2012		2 Mere	Nove -	1	$ \mathcal{A} $	Mas 757	NM 708			Received by: Via: Date Time R	Received by: Via Date Time
Chain-of-Custody Record Tur			8: 172372° St	Sunk to Mn 87505 Pro	505-983-5446	Pro	☐ Level 4 (Full Validation)	mpliance	□ Other □ Other □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	0#	<u>Š</u>		soil KMF Ceder 400	50:1 KMF-FT-1	6.1 KMF-FT-2 4	KMF-FT-3	sil KMF-FT-4	Sil KMF-FT-5	18:1 KMF-FT-6 40	Soil &MF-FT-7			James P. Berz	Rece
Chain	Client: Slow		Mailing Address:	V	Phone #: 50	email or Fax#:	QA/QC Package:	Accreditation:	□ NELAC			Date Time	Zlidja 1010	7/16/4 1305	7/16/19 (310	7/1/18 1315	7/16/16 (320	July 1320	4/16/19 1325	3/6/1 (33 B	, ,		Date: Time:	Date: Time:

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.



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

July 24, 2020

Paul Drakos Glorieta GeoScience P.O. Box 5727 Santa Fe, NM 87502 TEL: FAX

RE: TSV KMF VRP OrderNo.: 2007334

Dear Paul Drakos:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/7/2020 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 #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

WO#: **2007334**Date: **7/24/2020**

Case Narrative

CLIENT: Glorieta GeoScience **Project:** TSV KMF VRP

Analytical Notes Regarding EPA Method 8270:

The LCS/LCSD had low recoveries for the "S" flagged compounds.

Date Reported: 7/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: Rinsate

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 10:00:00 AM

 Lab ID:
 2007334-001
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	ССМ
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	7/12/2020 12:19:00 PM	G70266
Surr: BFB	95.7	70-130	%Rec	1	7/12/2020 12:19:00 PM	G70266
EPA METHOD 8015M/D: DIESEL RANGE					Analyst:	BRM
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	7/10/2020 6:43:52 PM	53607
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	7/10/2020 6:43:52 PM	53607
Surr: DNOP	99.0	70-130	%Rec	1	7/10/2020 6:43:52 PM	53607
EPA METHOD 8270C: SEMIVOLATILES					Analyst:	DAM
Acenaphthene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Acenaphthylene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Aniline	ND	20	μg/L	1	7/21/2020 3:13:44 PM	53602
Anthracene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Azobenzene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Benz(a)anthracene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Benzo(a)pyrene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Benzo(b)fluoranthene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Benzo(g,h,i)perylene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Benzo(k)fluoranthene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Benzoic acid	ND	20	μg/L	1	7/21/2020 3:13:44 PM	53602
Benzyl alcohol	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Bis(2-chloroethoxy)methane	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Bis(2-chloroethyl)ether	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Bis(2-chloroisopropyl)ether	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Bis(2-ethylhexyl)phthalate	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
4-Bromophenyl phenyl ether	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Butyl benzyl phthalate	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Carbazole	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
4-Chloro-3-methylphenol	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
4-Chloroaniline	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
2-Chloronaphthalene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
2-Chlorophenol	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
4-Chlorophenyl phenyl ether	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Chrysene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Di-n-butyl phthalate	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Di-n-octyl phthalate	ND	20	μg/L	1	7/21/2020 3:13:44 PM	53602
Dibenz(a,h)anthracene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Dibenzofuran	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
1,2-Dichlorobenzene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
1,3-Dichlorobenzene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: Rinsate

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 10:00:00 AM

 Lab ID:
 2007334-001
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES					Analyst	: DAM
1,4-Dichlorobenzene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
3,3'-Dichlorobenzidine	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Diethyl phthalate	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Dimethyl phthalate	ND	30	μg/L	1	7/21/2020 3:13:44 PM	53602
2,4-Dichlorophenol	ND	20	μg/L	1	7/21/2020 3:13:44 PM	53602
2,4-Dimethylphenol	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
4,6-Dinitro-2-methylphenol	ND	20	μg/L	1	7/21/2020 3:13:44 PM	53602
2,4-Dinitrophenol	ND	20	μg/L	1	7/21/2020 3:13:44 PM	53602
2,4-Dinitrotoluene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
2,6-Dinitrotoluene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Fluoranthene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Fluorene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Hexachlorobenzene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Hexachlorobutadiene	ND	20	μg/L	1	7/21/2020 3:13:44 PM	53602
Hexachlorocyclopentadiene	ND	30	μg/L	1	7/21/2020 3:13:44 PM	53602
Hexachloroethane	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Indeno(1,2,3-cd)pyrene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Isophorone	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
1-Methylnaphthalene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
2-Methylnaphthalene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
2-Methylphenol	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
3+4-Methylphenol	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
N-Nitrosodi-n-propylamine	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
N-Nitrosodimethylamine	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
N-Nitrosodiphenylamine	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Naphthalene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
2-Nitroaniline	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
3-Nitroaniline	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
4-Nitroaniline	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Nitrobenzene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
2-Nitrophenol	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
4-Nitrophenol	ND	20	μg/L	1	7/21/2020 3:13:44 PM	53602
Pentachlorophenol	ND	20	μg/L	1	7/21/2020 3:13:44 PM	53602
Phenanthrene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Phenol	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Pyrene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
Pyridine	ND	30	μg/L	1	7/21/2020 3:13:44 PM	53602
1,2,4-Trichlorobenzene	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602
2,4,5-Trichlorophenol	ND	10	μg/L	1	7/21/2020 3:13:44 PM	53602

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: Rinsate

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 10:00:00 AM

 Lab ID:
 2007334-001
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Un	its DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES					Analyst	DAM
2,4,6-Trichlorophenol	ND	10	μg	/L 1	7/21/2020 3:13:44 PM	53602
Surr: 2-Fluorophenol	43.4	19.1-74.7	%F	Rec 1	7/21/2020 3:13:44 PM	53602
Surr: Phenol-d5	35.4	19.2-57	%F	Rec 1	7/21/2020 3:13:44 PM	53602
Surr: 2,4,6-Tribromophenol	60.2	31-96.4	%F	Rec 1	7/21/2020 3:13:44 PM	53602
Surr: Nitrobenzene-d5	57.3	46.2-101	%F	Rec 1	7/21/2020 3:13:44 PM	53602
Surr: 2-Fluorobiphenyl	49.1	39.7-98.2	%F	Rec 1	7/21/2020 3:13:44 PM	53602
Surr: 4-Terphenyl-d14	79.9	31.1-102	%F	Rec 1	7/21/2020 3:13:44 PM	53602
EPA METHOD 8260B: VOLATILES					Analyst	ССМ
Benzene	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Toluene	ND	1.0	μg/	/L 1	7/12/2020 12:19:00 PM	R70266
Ethylbenzene	ND	1.0	μg/	/L 1	7/12/2020 12:19:00 PM	R70266
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/		7/12/2020 12:19:00 PM	R70266
1,2,4-Trimethylbenzene	ND	1.0	μg/		7/12/2020 12:19:00 PM	R70266
1,3,5-Trimethylbenzene	ND	1.0	μg		7/12/2020 12:19:00 PM	R70266
1,2-Dichloroethane (EDC)	ND	1.0	μg		7/12/2020 12:19:00 PM	R70266
1,2-Dibromoethane (EDB)	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Naphthalene	ND	2.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
1-Methylnaphthalene	ND	4.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
2-Methylnaphthalene	ND	4.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Acetone	ND	10	μg/		7/12/2020 12:19:00 PM	R70266
Bromobenzene	ND	1.0	μg/	/L 1	7/12/2020 12:19:00 PM	R70266
Bromodichloromethane	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Bromoform	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Bromomethane	ND	3.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
2-Butanone	ND	10	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Carbon disulfide	ND	10	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Carbon Tetrachloride	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Chlorobenzene	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Chloroethane	ND	2.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Chloroform	1.6	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Chloromethane	ND	3.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
2-Chlorotoluene	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
4-Chlorotoluene	ND	1.0	μg/	/L 1	7/12/2020 12:19:00 PM	R70266
cis-1,2-DCE	ND	1.0	μg/	/L 1	7/12/2020 12:19:00 PM	R70266
cis-1,3-Dichloropropene	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
1,2-Dibromo-3-chloropropane	ND	2.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Dibromochloromethane	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
Dibromomethane	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266
1,2-Dichlorobenzene	ND	1.0	μg	/L 1	7/12/2020 12:19:00 PM	R70266

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Analytical Report

Lab Order **2007334**

Date Reported: 7/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience Client Sample ID: Rinsate

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 10:00:00 AM

 Lab ID:
 2007334-001
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	ССМ
1,3-Dichlorobenzene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,4-Dichlorobenzene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
Dichlorodifluoromethane	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,1-Dichloroethane	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,1-Dichloroethene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,2-Dichloropropane	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,3-Dichloropropane	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
2,2-Dichloropropane	ND	2.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,1-Dichloropropene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
Hexachlorobutadiene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
2-Hexanone	ND	10	μg/L	1	7/12/2020 12:19:00 PM	R70266
Isopropylbenzene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
4-Isopropyltoluene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
4-Methyl-2-pentanone	ND	10	μg/L	1	7/12/2020 12:19:00 PM	R70266
Methylene Chloride	ND	3.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
n-Butylbenzene	ND	3.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
n-Propylbenzene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
sec-Butylbenzene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
Styrene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
tert-Butylbenzene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
trans-1,2-DCE	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,1,1-Trichloroethane	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,1,2-Trichloroethane	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
Trichloroethene (TCE)	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
Trichlorofluoromethane	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
1,2,3-Trichloropropane	ND	2.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
Vinyl chloride	ND	1.0	μg/L	1	7/12/2020 12:19:00 PM	R70266
Xylenes, Total	ND	1.5	μg/L	1	7/12/2020 12:19:00 PM	R70266
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	7/12/2020 12:19:00 PM	R70266
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	7/12/2020 12:19:00 PM	R70266
Surr: Dibromofluoromethane	99.6	70-130	%Rec	1	7/12/2020 12:19:00 PM	R70266
Surr: Toluene-d8	101	70-130	%Rec	1	7/12/2020 12:19:00 PM	R70266

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- J Analyte detected below quantitation limits
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- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/24/2020

CLIENT: Glorieta GeoScience Client Sample ID: Culvert Well

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 10:45:00 AM

 Lab ID:
 2007334-002
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	ССМ
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	7/12/2020 1:31:00 PM	R70266
Surr: BFB	97.5	70-130	%Rec	1	7/12/2020 1:31:00 PM	R70266
EPA METHOD 8015M/D: DIESEL RANGE					Analyst:	BRM
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	7/10/2020 7:56:38 PM	53607
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	7/10/2020 7:56:38 PM	53607
Surr: DNOP	105	70-130	%Rec	1	7/10/2020 7:56:38 PM	53607
EPA METHOD 8270C: SEMIVOLATILES					Analyst:	DAM
Acenaphthene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Acenaphthylene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Aniline	ND	20	μg/L	1	7/21/2020 3:57:09 PM	53602
Anthracene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Azobenzene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Benz(a)anthracene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Benzo(a)pyrene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Benzo(b)fluoranthene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Benzo(g,h,i)perylene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Benzo(k)fluoranthene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Benzoic acid	ND	20	μg/L	1	7/21/2020 3:57:09 PM	53602
Benzyl alcohol	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Bis(2-chloroethoxy)methane	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Bis(2-chloroethyl)ether	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Bis(2-chloroisopropyl)ether	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Bis(2-ethylhexyl)phthalate	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
4-Bromophenyl phenyl ether	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Butyl benzyl phthalate	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Carbazole	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
4-Chloro-3-methylphenol	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
4-Chloroaniline	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
2-Chloronaphthalene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
2-Chlorophenol	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
4-Chlorophenyl phenyl ether	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Chrysene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Di-n-butyl phthalate	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Di-n-octyl phthalate	ND	20	μg/L	1	7/21/2020 3:57:09 PM	53602
Dibenz(a,h)anthracene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Dibenzofuran	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
1,2-Dichlorobenzene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
1,3-Dichlorobenzene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
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- ND Not Detected at the Reporting Limit
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Date Reported: 7/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: Culvert Well

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 10:45:00 AM

 Lab ID:
 2007334-002
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES					Analyst	DAM
1,4-Dichlorobenzene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
3,3´-Dichlorobenzidine	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Diethyl phthalate	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Dimethyl phthalate	ND	30	μg/L	1	7/21/2020 3:57:09 PM	53602
2,4-Dichlorophenol	ND	20	μg/L	1	7/21/2020 3:57:09 PM	53602
2,4-Dimethylphenol	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
4,6-Dinitro-2-methylphenol	ND	20	μg/L	1	7/21/2020 3:57:09 PM	53602
2,4-Dinitrophenol	ND	20	μg/L	1	7/21/2020 3:57:09 PM	53602
2,4-Dinitrotoluene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
2,6-Dinitrotoluene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Fluoranthene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Fluorene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Hexachlorobenzene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Hexachlorobutadiene	ND	20	μg/L	1	7/21/2020 3:57:09 PM	53602
Hexachlorocyclopentadiene	ND	30	μg/L	1	7/21/2020 3:57:09 PM	53602
Hexachloroethane	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Indeno(1,2,3-cd)pyrene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Isophorone	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
1-Methylnaphthalene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
2-Methylnaphthalene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
2-Methylphenol	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
3+4-Methylphenol	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
N-Nitrosodi-n-propylamine	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
N-Nitrosodimethylamine	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
N-Nitrosodiphenylamine	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Naphthalene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
2-Nitroaniline	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
3-Nitroaniline	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
4-Nitroaniline	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Nitrobenzene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
2-Nitrophenol	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
4-Nitrophenol	ND	20	μg/L	1	7/21/2020 3:57:09 PM	53602
Pentachlorophenol	ND	20	μg/L	1	7/21/2020 3:57:09 PM	53602
Phenanthrene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Phenol	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Pyrene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Pyridine	ND	30	μg/L	1	7/21/2020 3:57:09 PM	53602
1,2,4-Trichlorobenzene	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
2,4,5-Trichlorophenol	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602

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Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/24/2020

CLIENT: Glorieta GeoScience Client Sample ID: Culvert Well

 Project:
 TSV KMF VRP
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 Lab ID:
 2007334-002
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Uni	ts DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES					Analyst	: DAM
2,4,6-Trichlorophenol	ND	10	μg/L	1	7/21/2020 3:57:09 PM	53602
Surr: 2-Fluorophenol	42.9	19.1-74.7	%Re	ec 1	7/21/2020 3:57:09 PM	53602
Surr: Phenol-d5	33.2	19.2-57	%Re	ec 1	7/21/2020 3:57:09 PM	53602
Surr: 2,4,6-Tribromophenol	48.9	31-96.4	%Re	ec 1	7/21/2020 3:57:09 PM	53602
Surr: Nitrobenzene-d5	54.1	46.2-101	%Re	ec 1	7/21/2020 3:57:09 PM	53602
Surr: 2-Fluorobiphenyl	45.6	39.7-98.2	%Re	ec 1	7/21/2020 3:57:09 PM	53602
Surr: 4-Terphenyl-d14	70.4	31.1-102	%Re	ec 1	7/21/2020 3:57:09 PM	53602
EPA METHOD 8260B: VOLATILES					Analyst	: CCM
Benzene	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Toluene	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Ethylbenzene	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L		7/12/2020 1:31:00 PM	R70266
1,2,4-Trimethylbenzene	ND	1.0	μg/L		7/12/2020 1:31:00 PM	R70266
1,3,5-Trimethylbenzene	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Naphthalene	ND	2.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
1-Methylnaphthalene	ND	4.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
2-Methylnaphthalene	ND	4.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Acetone	ND	10	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Bromobenzene	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Bromodichloromethane	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Bromoform	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Bromomethane	ND	3.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
2-Butanone	ND	10	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Carbon disulfide	ND	10	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Carbon Tetrachloride	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Chlorobenzene	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Chloroethane	ND	2.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Chloroform	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Chloromethane	ND	3.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
2-Chlorotoluene	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
4-Chlorotoluene	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
cis-1,2-DCE	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
cis-1,3-Dichloropropene	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266
Dibromochloromethane	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
Dibromomethane	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,2-Dichlorobenzene	ND	1.0	μg/L	. 1	7/12/2020 1:31:00 PM	R70266

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2007334

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/24/2020

CLIENT: Glorieta GeoScience Client Sample ID: Culvert Well

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 10:45:00 AM

 Lab ID:
 2007334-002
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	: CCM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,4-Dichlorobenzene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
Dichlorodifluoromethane	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,1-Dichloroethane	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,1-Dichloroethene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,2-Dichloropropane	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,3-Dichloropropane	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
2,2-Dichloropropane	ND	2.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,1-Dichloropropene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
Hexachlorobutadiene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
2-Hexanone	ND	10	μg/L	1	7/12/2020 1:31:00 PM	R70266
Isopropylbenzene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
4-Isopropyltoluene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
4-Methyl-2-pentanone	ND	10	μg/L	1	7/12/2020 1:31:00 PM	R70266
Methylene Chloride	ND	3.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
n-Butylbenzene	ND	3.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
n-Propylbenzene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
sec-Butylbenzene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
Styrene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
tert-Butylbenzene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
trans-1,2-DCE	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,1,1-Trichloroethane	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,1,2-Trichloroethane	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
Trichloroethene (TCE)	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
Trichlorofluoromethane	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
1,2,3-Trichloropropane	ND	2.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
Vinyl chloride	ND	1.0	μg/L	1	7/12/2020 1:31:00 PM	R70266
Xylenes, Total	ND	1.5	μg/L	1	7/12/2020 1:31:00 PM	R70266
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	7/12/2020 1:31:00 PM	R70266
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	7/12/2020 1:31:00 PM	R70266
Surr: Dibromofluoromethane	101	70-130	%Rec	1	7/12/2020 1:31:00 PM	R70266
Surr: Toluene-d8	97.8	70-130	%Rec	1	7/12/2020 1:31:00 PM	R70266

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: 1993 MW

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 11:35:00 AM

 Lab ID:
 2007334-003
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	ССМ
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1	7/12/2020 2:45:00 PM	G70266
Surr: BFB	102	70-130	%Rec	1	7/12/2020 2:45:00 PM	G70266
EPA METHOD 8015M/D: DIESEL RANGE					Analyst:	BRM
Diesel Range Organics (DRO)	ND	1.0	mg/L	1	7/10/2020 8:21:21 PM	53607
Motor Oil Range Organics (MRO)	ND	5.0	mg/L	1	7/10/2020 8:21:21 PM	53607
Surr: DNOP	104	70-130	%Rec	1	7/10/2020 8:21:21 PM	53607
EPA METHOD 8270C: SEMIVOLATILES					Analyst:	DAM
Acenaphthene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Acenaphthylene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Aniline	ND	20	μg/L	1	7/21/2020 4:40:43 PM	53602
Anthracene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Azobenzene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Benz(a)anthracene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Benzo(a)pyrene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Benzo(b)fluoranthene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Benzo(g,h,i)perylene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Benzo(k)fluoranthene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Benzoic acid	ND	20	μg/L	1	7/21/2020 4:40:43 PM	53602
Benzyl alcohol	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Bis(2-chloroethoxy)methane	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Bis(2-chloroethyl)ether	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Bis(2-chloroisopropyl)ether	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Bis(2-ethylhexyl)phthalate	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
4-Bromophenyl phenyl ether	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Butyl benzyl phthalate	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Carbazole	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
4-Chloro-3-methylphenol	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
4-Chloroaniline	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
2-Chloronaphthalene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
2-Chlorophenol	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
4-Chlorophenyl phenyl ether	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Chrysene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Di-n-butyl phthalate	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Di-n-octyl phthalate	ND	20	μg/L	1	7/21/2020 4:40:43 PM	53602
Dibenz(a,h)anthracene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Dibenzofuran	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
1,2-Dichlorobenzene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
1,3-Dichlorobenzene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/24/2020

CLIENT: Glorieta GeoScience Client Sample ID: 1993 MW

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 11:35:00 AM

 Lab ID:
 2007334-003
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES					Analyst	: DAM
1,4-Dichlorobenzene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
3,3'-Dichlorobenzidine	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Diethyl phthalate	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Dimethyl phthalate	ND	30	μg/L	1	7/21/2020 4:40:43 PM	53602
2,4-Dichlorophenol	ND	20	μg/L	1	7/21/2020 4:40:43 PM	53602
2,4-Dimethylphenol	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
4,6-Dinitro-2-methylphenol	ND	20	μg/L	1	7/21/2020 4:40:43 PM	53602
2,4-Dinitrophenol	ND	20	μg/L	1	7/21/2020 4:40:43 PM	53602
2,4-Dinitrotoluene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
2,6-Dinitrotoluene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Fluoranthene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Fluorene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Hexachlorobenzene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Hexachlorobutadiene	ND	20	μg/L	1	7/21/2020 4:40:43 PM	53602
Hexachlorocyclopentadiene	ND	30	μg/L	1	7/21/2020 4:40:43 PM	53602
Hexachloroethane	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Indeno(1,2,3-cd)pyrene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Isophorone	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
1-Methylnaphthalene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
2-Methylnaphthalene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
2-Methylphenol	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
3+4-Methylphenol	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
N-Nitrosodi-n-propylamine	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
N-Nitrosodimethylamine	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
N-Nitrosodiphenylamine	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Naphthalene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
2-Nitroaniline	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
3-Nitroaniline	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
4-Nitroaniline	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Nitrobenzene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
2-Nitrophenol	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
4-Nitrophenol	ND	20	μg/L	1	7/21/2020 4:40:43 PM	53602
Pentachlorophenol	ND	20	μg/L	1	7/21/2020 4:40:43 PM	53602
Phenanthrene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Phenol	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Pyrene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
Pyridine	ND	30	μg/L	1	7/21/2020 4:40:43 PM	53602
1,2,4-Trichlorobenzene	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602
2,4,5-Trichlorophenol	ND	10	μg/L	1	7/21/2020 4:40:43 PM	53602

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience Client Sample ID: 1993 MW

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 11:35:00 AM

 Lab ID:
 2007334-003
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Un	its DF	Date Analyzed	Batch
EPA METHOD 8270C: SEMIVOLATILES					Analyst	: DAM
2,4,6-Trichlorophenol	ND	10	μg/	L 1	7/21/2020 4:40:43 PM	53602
Surr: 2-Fluorophenol	47.1	19.1-74.7	%R	ec 1	7/21/2020 4:40:43 PM	53602
Surr: Phenol-d5	34.5	19.2-57	%F	ec 1	7/21/2020 4:40:43 PM	53602
Surr: 2,4,6-Tribromophenol	58.2	31-96.4	%F	ec 1	7/21/2020 4:40:43 PM	53602
Surr: Nitrobenzene-d5	55.1	46.2-101	%F	ec 1	7/21/2020 4:40:43 PM	53602
Surr: 2-Fluorobiphenyl	48.4	39.7-98.2	%R	ec 1	7/21/2020 4:40:43 PM	53602
Surr: 4-Terphenyl-d14	75.8	31.1-102	%F	ec 1	7/21/2020 4:40:43 PM	53602
EPA METHOD 8260B: VOLATILES					Analyst	: CCM
Benzene	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Toluene	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Ethylbenzene	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/		7/12/2020 2:45:00 PM	R70266
1,2,4-Trimethylbenzene	ND	1.0	μg/		7/12/2020 2:45:00 PM	R70266
1,3,5-Trimethylbenzene	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
1,2-Dichloroethane (EDC)	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
1,2-Dibromoethane (EDB)	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Naphthalene	ND	2.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
1-Methylnaphthalene	ND	4.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
2-Methylnaphthalene	ND	4.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Acetone	ND	10	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Bromobenzene	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Bromodichloromethane	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Bromoform	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Bromomethane	ND	3.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
2-Butanone	ND	10	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Carbon disulfide	ND	10	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Carbon Tetrachloride	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Chlorobenzene	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Chloroethane	ND	2.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Chloroform	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Chloromethane	ND	3.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
2-Chlorotoluene	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
4-Chlorotoluene	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
cis-1,2-DCE	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
cis-1,3-Dichloropropene	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
1,2-Dibromo-3-chloropropane	ND	2.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Dibromochloromethane	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
Dibromomethane	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266
1,2-Dichlorobenzene	ND	1.0	μg/	L 1	7/12/2020 2:45:00 PM	R70266

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience

Client Sample ID: 1993 MW

 Project:
 TSV KMF VRP
 Collection Date: 7/6/2020 11:35:00 AM

 Lab ID:
 2007334-003
 Matrix: AQUEOUS
 Received Date: 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst	CCM
1,3-Dichlorobenzene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,4-Dichlorobenzene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
Dichlorodifluoromethane	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,1-Dichloroethane	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,1-Dichloroethene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,2-Dichloropropane	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,3-Dichloropropane	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
2,2-Dichloropropane	ND	2.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,1-Dichloropropene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
Hexachlorobutadiene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
2-Hexanone	ND	10	μg/L	1	7/12/2020 2:45:00 PM	R70266
Isopropylbenzene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
4-Isopropyltoluene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
4-Methyl-2-pentanone	ND	10	μg/L	1	7/12/2020 2:45:00 PM	R70266
Methylene Chloride	ND	3.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
n-Butylbenzene	ND	3.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
n-Propylbenzene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
sec-Butylbenzene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
Styrene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
tert-Butylbenzene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
trans-1,2-DCE	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,1,1-Trichloroethane	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,1,2-Trichloroethane	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
Trichloroethene (TCE)	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
Trichlorofluoromethane	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
1,2,3-Trichloropropane	ND	2.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
Vinyl chloride	ND	1.0	μg/L	1	7/12/2020 2:45:00 PM	R70266
Xylenes, Total	ND	1.5	μg/L	1	7/12/2020 2:45:00 PM	R70266
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	7/12/2020 2:45:00 PM	R70266
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	7/12/2020 2:45:00 PM	R70266
Surr: Dibromofluoromethane	102	70-130	%Rec	1	7/12/2020 2:45:00 PM	R70266
Surr: Toluene-d8	99.2	70-130	%Rec	1	7/12/2020 2:45:00 PM	R70266

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2007334**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/24/2020

CLIENT: Glorieta GeoScience Client Sample ID: Trip Blank

Project: TSV KMF VRP Collection Date:

Lab ID: 2007334-004 **Matrix:** TRIP BLANK **Received Date:** 7/7/2020 3:20:00 PM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst:	RAA
Benzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Toluene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Ethylbenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Methyl tert-butyl ether (MTBE)	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,2,4-Trimethylbenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,3,5-Trimethylbenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,2-Dichloroethane (EDC)	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,2-Dibromoethane (EDB)	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Naphthalene	ND	2.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1-Methylnaphthalene	ND	4.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
2-Methylnaphthalene	ND	4.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Acetone	ND	10	μg/L	1	7/13/2020 11:22:00 AM	R70278
Bromobenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Bromodichloromethane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Bromoform	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Bromomethane	ND	3.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
2-Butanone	ND	10	μg/L	1	7/13/2020 11:22:00 AM	R70278
Carbon disulfide	ND	10	μg/L	1	7/13/2020 11:22:00 AM	R70278
Carbon Tetrachloride	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Chlorobenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Chloroethane	ND	2.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Chloroform	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Chloromethane	ND	3.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
2-Chlorotoluene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
4-Chlorotoluene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
cis-1,2-DCE	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
cis-1,3-Dichloropropene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,2-Dibromo-3-chloropropane	ND	2.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Dibromochloromethane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Dibromomethane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,2-Dichlorobenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,3-Dichlorobenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,4-Dichlorobenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Dichlorodifluoromethane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,1-Dichloroethane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,1-Dichloroethene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,2-Dichloropropane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,3-Dichloropropane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
2,2-Dichloropropane	ND	2.0	μg/L	1	7/13/2020 11:22:00 AM	R70278

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/24/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Glorieta GeoScience Client Sample ID: Trip Blank

Project: TSV KMF VRP Collection Date:

Lab ID: 2007334-004 **Matrix:** TRIP BLANK **Received Date:** 7/7/2020 3:20:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES					Analyst:	RAA
1,1-Dichloropropene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Hexachlorobutadiene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
2-Hexanone	ND	10	μg/L	1	7/13/2020 11:22:00 AM	R70278
Isopropylbenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
4-Isopropyltoluene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
4-Methyl-2-pentanone	ND	10	μg/L	1	7/13/2020 11:22:00 AM	R70278
Methylene Chloride	ND	3.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
n-Butylbenzene	ND	3.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
n-Propylbenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
sec-Butylbenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Styrene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
tert-Butylbenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,1,1,2-Tetrachloroethane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,1,2,2-Tetrachloroethane	ND	2.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Tetrachloroethene (PCE)	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
trans-1,2-DCE	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
trans-1,3-Dichloropropene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,2,3-Trichlorobenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,2,4-Trichlorobenzene	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,1,1-Trichloroethane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,1,2-Trichloroethane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Trichloroethene (TCE)	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Trichlorofluoromethane	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
1,2,3-Trichloropropane	ND	2.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Vinyl chloride	ND	1.0	μg/L	1	7/13/2020 11:22:00 AM	R70278
Xylenes, Total	ND	1.5	μg/L	1	7/13/2020 11:22:00 AM	R70278
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	7/13/2020 11:22:00 AM	R70278
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	7/13/2020 11:22:00 AM	R70278
Surr: Dibromofluoromethane	101	70-130	%Rec	1	7/13/2020 11:22:00 AM	R70278
Surr: Toluene-d8	98.9	70-130	%Rec	1	7/13/2020 11:22:00 AM	R70278

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

0.52

0.5000

Glorieta GeoScience

WO#: **2007334**

24-Jul-20

Project: TSV KN	MF VRP									
Sample ID: MB-53607	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e	
Client ID: PBW	Batch	ID: 53	607	07 RunNo: 70238						
Prep Date: 7/9/2020	Analysis D	ate: 7/	10/2020	5	SeqNo: 2	442178	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.0		1.000		103	70	130			
Sample ID: LCS-53607	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e	
Client ID: LCSW	Batch	tch ID: 53607 RunNo: 70238								
Prep Date: 7/9/2020	Analysis D	ate: 7/	10/2020	9	SeqNo: 2	442179	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.4	1.0	5.000	0	109	70	130			
Surr: DNOP	0.51		0.5000		103	70	130			
Sample ID: 2007334-001CMS	S SampT	уре: М\$	3	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e	
Client ID: Rinsate	Batch	ID: 53	607	F	RunNo: 7	0238				
Prep Date: 7/9/2020	Analysis D	ate: 7/	10/2020	5	SeqNo: 2	442181	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	109	70	130			
Surr: DNOP	0.53		0.5000		105	70	130			
Sample ID: 2007334-001CM \$	SD SampT	уре: М\$	SD	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	e	
Client ID: Rinsate	Batch	ID: 53	607	F	RunNo: 7	0238				
Prep Date: 7/9/2020	Analysis D	ate: 7/	10/2020	S	SeqNo: 2	442182	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.5	1.0	5.000	0	109	70	130	0.0514	20	

Qualifiers:

Surr: DNOP

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

105

70

130

0

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

0

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007334**

24-Jul-20

Client: Glorieta GeoScience
Project: TSV KMF VRP

Sample ID: 100ng lcs	SampT	SampType: LCS TestCode: EPA Method 8260B: VOLATILES								
Client ID: LCSW	Batch	Batch ID: R70266 RunNo: 70266								
Prep Date:	Analysis D	Analysis Date: 7/12/2020 SeqNo: 2442457 U				Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.6	70	130			
Toluene	20	1.0	20.00	0	101	70	130			
Chlorobenzene	20	1.0	20.00	0	102	70	130			
1,1-Dichloroethene	20	1.0	20.00	0	97.8	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	88.5	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.3	70	130			
Surr: Toluene-d8	10		10.00		99.8	70	130			

Sample ID: mb	SampType: MBLK				TestCode: EPA Method 8260B: VOLATILES						
Client ID: PBW	Batch	1D: R7	0266	F	RunNo: 7	0266					
Prep Date:	Analysis D	ate: 7/	12/2020	9	SeqNo: 2	442458	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylhenzene	ND	1.0									

Ethylbenzene	ND	1.0
Methyl tert-butyl ether (MTBE)	ND	1.0
1,2,4-Trimethylbenzene	ND	1.0
1,3,5-Trimethylbenzene	ND	1.0
1,2-Dichloroethane (EDC)	ND	1.0
1,2-Dibromoethane (EDB)	ND	1.0
Naphthalene	ND	2.0
1-Methylnaphthalene	ND	4.0
2-Methylnaphthalene	ND	4.0
Acetone	ND	10
Bromobenzene	ND	1.0
Bromodichloromethane	ND	1.0
Bromoform	ND	1.0
Bromomethane	ND	3.0
2-Butanone	ND	10
Carbon disulfide	ND	10
Carbon Tetrachloride	ND	1.0
Chlorobenzene	ND	1.0
Chloroethane	ND	2.0
Chloroform	ND	1.0
Chloromethane	ND	3.0

ND

1.0

Qualifiers:

2-Chlorotoluene

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: 2007334

24-Jul-20

Client: Glorieta GeoScience **Project:** TSV KMF VRP

Sample ID: mb

Client ID: PBW Batch ID: **R70266** RunNo: 70266

TestCode: EPA Method 8260B: VOLATILES

Prep Date: Analysis Date: 7/12/2020 SeqNo: 2442458 Units: µg/L PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 4-Chlorotoluene ND 1.0 cis-1.2-DCE ND 1.0 ND cis-1,3-Dichloropropene 1.0 1,2-Dibromo-3-chloropropane ND 2.0 Dibromochloromethane ND 1.0 Dibromomethane ND 1.0 1,2-Dichlorobenzene ND 1.0 1,3-Dichlorobenzene ND 1.0 1,4-Dichlorobenzene ND 1.0 ND 1.0 Dichlorodifluoromethane 1,1-Dichloroethane ND 1.0 ND 1.0 1,1-Dichloroethene 1,2-Dichloropropane ND 1.0 1,3-Dichloropropane ND 1.0 2,2-Dichloropropane ND 2.0 1,1-Dichloropropene ND 1.0 ND Hexachlorobutadiene 1.0 2-Hexanone ND 10 Isopropylbenzene ND 1.0 4-Isopropyltoluene ND 1.0 ND 4-Methyl-2-pentanone 10 Methylene Chloride ND 3.0 n-Butylbenzene ND 3.0 n-Propylbenzene ND 1.0 sec-Butylbenzene ND 1.0 ND 1.0 Styrene tert-Butylbenzene ND 1.0 ND 1,1,1,2-Tetrachloroethane 1.0 1,1,2,2-Tetrachloroethane ND 2.0 Tetrachloroethene (PCE) ND 1.0 trans-1,2-DCE ND 1.0 ND 1.0 trans-1,3-Dichloropropene 1,2,3-Trichlorobenzene ND 1.0 ND 1,2,4-Trichlorobenzene 1.0 1,1,1-Trichloroethane ND 1.0 1,1,2-Trichloroethane ND 1.0 Trichloroethene (TCE) ND 1.0 Trichlorofluoromethane ND 1.0 1,2,3-Trichloropropane ND 2.0

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007334**

24-Jul-20

Client: Glorieta GeoScience
Project: TSV KMF VRP

Sample ID: mb SampType: MBLK TestCode: EPA Method 8260B: VOLATILES Client ID: PBW Batch ID: **R70266** RunNo: 70266 Prep Date: Analysis Date: 7/12/2020 SeqNo: 2442458 Units: µg/L Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Vinyl chloride ND 1.0 Xylenes, Total ND 1.5 70 10 10.00 100 130 Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene 9.9 10.00 98.9 70 130 Surr: Dibromofluoromethane 10 10.00 99.8 70 130 Surr: Toluene-d8 9.9 10.00 99.1 70 130

Sample ID: 2007334-001ams SampType: MS TestCode: EPA Method 8260B: VOLATILES Client ID: Rinsate Batch ID: **R70266** RunNo: 70266 Prep Date: Analysis Date: 7/12/2020 SeqNo: 2442460 Units: µg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Analyte Benzene 19 1.0 20.00 95.7 70 20 20.00 0 99.4 70 130 1.0 Toluene 21 20.00 0 103 70 130 Chlorobenzene 1.0 1,1-Dichloroethene 20 1.0 20.00 0 97.6 70 130 Trichloroethene (TCE) 18 1.0 20.00 0 89.1 70 130 Surr: 1,2-Dichloroethane-d4 10 10.00 102 70 130 Surr: 4-Bromofluorobenzene 101 70 10 10.00 130 Surr: Dibromofluoromethane 10 10.00 101 70 130 Surr: Toluene-d8 10 10.00 101 130 70

Sample ID: 2007334-001amsd	SampType: MSD TestCode: EPA Method 8260B: VOLATILES									
Client ID: Rinsate	Batch	n ID: R7	0266	F	RunNo: 7	0266				
Prep Date:	Analysis D	ate: 7/	12/2020	5	SeqNo: 2	442461	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.1	70	130	1.64	20	
Toluene	19	1.0	20.00	0	96.7	70	130	2.80	20	
Chlorobenzene	20	1.0	20.00	0	99.1	70	130	3.47	20	
1,1-Dichloroethene	18	1.0	20.00	0	91.2	70	130	6.82	20	
Trichloroethene (TCE)	17	1.0	20.00	0	85.9	70	130	3.61	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130	0	0	
Surr: Dibromofluoromethane	9.9		10.00		99.2	70	130	0	0	
Surr: Toluene-d8	9.9		10.00		99.0	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **2007334**

24-Jul-20

Client: Glorieta GeoScience
Project: TSV KMF VRP

Sample ID: MB

 Client ID:
 PBW
 Batch ID:
 R70278
 RunNo:
 70278

 Prep Date:
 Analysis Date:
 7/13/2020
 SeqNo:
 2445380
 Units: μg/L

 Analyte
 Result
 PQL
 SPK value
 SPK Ref Val
 %REC
 LowLimit
 HighLimit
 %RPD
 RPDLimit
 Qual

 Benzene
 ND
 1.0

TestCode: EPA Method 8260B: VOLATILES

	,a., o.o 2		.0,2020	•	, oq. 10. =		oo. µg, =		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	R
Benzene	ND	1.0							
Toluene	ND	1.0							
Ethylbenzene	ND	1.0							
Methyl tert-butyl ether (MTBE)	ND	1.0							
1,2,4-Trimethylbenzene	ND	1.0							
1,3,5-Trimethylbenzene	ND	1.0							
1,2-Dichloroethane (EDC)	ND	1.0							
1,2-Dibromoethane (EDB)	ND	1.0							
Naphthalene	ND	2.0							
1-Methylnaphthalene	ND	4.0							
2-Methylnaphthalene	ND	4.0							
Acetone	ND	10							
Bromobenzene	ND	1.0							
Bromodichloromethane	ND	1.0							
Bromoform	ND	1.0							
Bromomethane	ND	3.0							
2-Butanone	ND	10							
Carbon disulfide	ND	10							
Carbon Tetrachloride	ND	1.0							
Chlorobenzene	ND	1.0							
Chloroethane	ND	2.0							
Chloroform	ND	1.0							
Chloromethane	ND	3.0							
2-Chlorotoluene	ND	1.0							
4-Chlorotoluene	ND	1.0							
cis-1,2-DCE	ND	1.0							
cis-1,3-Dichloropropene	ND	1.0							
1,2-Dibromo-3-chloropropane	ND	2.0							
Dibromochloromethane	ND	1.0							
Dibromomethane	ND	1.0							
1,2-Dichlorobenzene	ND	1.0							
1,3-Dichlorobenzene	ND	1.0							
1,4-Dichlorobenzene	ND	1.0							
Dichlorodifluoromethane	ND	1.0							
1,1-Dichloroethane	ND	1.0							
1,1-Dichloroethene	ND	1.0							
1,2-Dichloropropane	ND	1.0							
1,3-Dichloropropane	ND	1.0							
2,2-Dichloropropane	ND	2.0							

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007334**

24-Jul-20

Client: Glorieta GeoScience
Project: TSV KMF VRP

Sample ID: MB	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBW	Batch	ID: R7	0278	RunNo: 70278						
Prep Date:	Analysis D	ate: 7/	13/2020	8	SeqNo: 2	445380	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloropropene	ND	1.0								
Hexachlorobutadiene	ND	1.0								
2-Hexanone	ND	10								
Isopropylbenzene	ND	1.0								
4-Isopropyltoluene	ND	1.0								
4-Methyl-2-pentanone	ND	10								
Methylene Chloride	ND	3.0								
n-Butylbenzene	ND	3.0								
n-Propylbenzene	ND	1.0								
sec-Butylbenzene	ND	1.0								
Styrene	ND	1.0								
tert-Butylbenzene	ND	1.0								
1,1,1,2-Tetrachloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	2.0								
Tetrachloroethene (PCE)	ND	1.0								
trans-1,2-DCE	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
1,2,3-Trichlorobenzene	ND	1.0								
1,2,4-Trichlorobenzene	ND	1.0								
1,1,1-Trichloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
Trichloroethene (TCE)	ND	1.0								
Trichlorofluoromethane	ND	1.0								
1,2,3-Trichloropropane	ND	2.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.9		10.00		98.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.8	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

Sample ID: 100NG LCS	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	ID: R7	0278	F	RunNo: 7 (0278				
Prep Date:	Analysis D	ate: 7/	13/2020	8	SeqNo: 24	445382	Units: µg/L			
Analyte	Result	PQL	SDK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	Nesuit	i QL	of it value	of Kitter var	7011LO	LOWLIIIII	riigiiLiiiii	701 KI D	TO DEITHE	Q 0.0.
Benzene	19	1.0	20.00	0	97.0	70	130	7011112	THE DELITIE	~~~
								70111111	THE DELITING	<u> </u>

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2007334**

24-Jul-20

Client: Glorieta GeoScience
Project: TSV KMF VRP

Sample ID: 100NG LCS	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSW	Batch	1D: R7	0278	F	RunNo: 7	0278				
Prep Date:	Analysis D	ate: 7/	13/2020	9	SeqNo: 2	445382	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	20	1.0	20.00	0	98.7	70	130			
Trichloroethene (TCE)	18	1.0	20.00	0	89.7	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	10		10.00		101	70	130			

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

ND

10

10

10

10

10

10

10

10

10

20

10

10

10

10

10 10

10

30 20

10

20

20

SampType: MBLK

WO#: **2007334**

24-Jul-20

Client: Glorieta GeoScience
Project: TSV KMF VRP

Sample ID: mb-53602

4-Bromophenyl phenyl ether Butyl benzyl phthalate

4-Chloro-3-methylphenol

4-Chlorophenyl phenyl ether

2-Chloronaphthalene

Di-n-butyl phthalate Di-n-octyl phthalate

Dibenz(a,h)anthracene Dibenzofuran

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

Diethyl phthalate

Dimethyl phthalate

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

4,6-Dinitro-2-methylphenol

3,3'-Dichlorobenzidine

Carbazole

4-Chloroaniline

2-Chlorophenol

Chrysene

PBW Client ID: Batch ID: 53602 RunNo: 70502 Prep Date: 7/9/2020 Analysis Date: 7/21/2020 SeqNo: 2452297 Units: µg/L PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Acenaphthene ND 10 Acenaphthylene ND 10 ND 20 Aniline 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 10 ND Benzyl alcohol ND 10 Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether ND 10 Bis(2-chloroisopropyl)ether ND 10 10 Bis(2-ethylhexyl)phthalate ND ND 10

TestCode: EPA Method 8270C: Semivolatiles

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007334**

24-Jul-20

Client: Glorieta GeoScience
Project: TSV KMF VRP

Sample ID: mb-53602 SampType: MBLK TestCode: EPA Method 8270C: Semivolatiles PBW Client ID: Batch ID: 53602 RunNo: 70502 Prep Date: 7/9/2020 Analysis Date: 7/21/2020 SeqNo: 2452297 Units: µg/L PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte LowLimit 2,4-Dinitrotoluene ND 10 2.6-Dinitrotoluene ND 10 ND 10 Fluoranthene Fluorene ND 10 Hexachlorobenzene ND 10 Hexachlorobutadiene ND 20 Hexachlorocyclopentadiene ND 30 Hexachloroethane ND 10 Indeno(1,2,3-cd)pyrene ND 10 ND 10 Isophorone 1-Methylnaphthalene ND 10 10 2-Methylnaphthalene ND ND 10 2-Methylphenol 3+4-Methylphenol ND 10 N-Nitrosodi-n-propylamine ND 10 N-Nitrosodimethylamine ND 10 ND 10 N-Nitrosodiphenylamine Naphthalene ND 10 2-Nitroaniline ND 10 3-Nitroaniline ND 10 ND 4-Nitroaniline 10 Nitrobenzene ND 10 2-Nitrophenol ND 10 4-Nitrophenol ND 20 Pentachlorophenol ND 20 Phenanthrene ND 10 Phenol ND 10 ND 10 Pyrene Pyridine ND 30 1,2,4-Trichlorobenzene ND 10 2,4,5-Trichlorophenol ND 10 ND 10 2,4,6-Trichlorophenol 200.0 6.42 19.1 74.7 S Surr: 2-Fluorophenol 13 Surr: Phenol-d5 200.0 6.98 19.2 S 14 57 S Surr: 2,4,6-Tribromophenol 10 200.0 5.01 31 96.4 71 Surr: Nitrobenzene-d5 100.0 70.7 46.2 101 Surr: 2-Fluorobiphenyl 55 100.0 55.5 39.7 98.2 Surr: 4-Terphenyl-d14 93 100.0 93.1 31.1 102

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007334**

24-Jul-20

Client: Glorieta GeoScience
Project: TSV KMF VRP

Sample ID: Ics-53602	SampT	ype: LC	S	Tes	tCode: El	PA Method	8270C: Semi	volatiles		
Client ID: LCSW	Batch	n ID: 53 6	602	F	RunNo: 7	0502				
Prep Date: 7/9/2020	Analysis D	ate: 7/ 2	21/2020	S	SeqNo: 2	455448	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	46	10	100.0	0	46.3	46.3	97.3			
4-Chloro-3-methylphenol	110	10	100.0	0	108	46.9	99.1			S
2-Chlorophenol	31	10	100.0	0	31.2	39.1	98.2			S
1,4-Dichlorobenzene	35	10	100.0	0	34.7	28.6	87.9			
2,4-Dinitrotoluene	72	10	100.0	0	72.4	44	88.3			
N-Nitrosodi-n-propylamine	33	10	100.0	0	33.4	40.3	107			S
4-Nitrophenol	48	20	100.0	0	47.6	26.1	60.9			
Pentachlorophenol	73	20	100.0	0	72.8	30.6	83.6			
Phenol	20	10	100.0	0	20.0	22.7	63.7			S
Pyrene	69	10	100.0	0	69.3	51.4	90			
1,2,4-Trichlorobenzene	22	10	100.0	0	21.8	35	94.3			S
Surr: 2-Fluorophenol	21		100.0		20.6	19.1	74.7			
Surr: Phenol-d5	19		100.0		18.5	19.2	57			S
Surr: 2,4,6-Tribromophenol	65		100.0		65.5	31	96.4			
Surr: Nitrobenzene-d5	32		100.0		31.6	46.2	101			S
Surr: 2-Fluorobiphenyl	35		100.0		34.9	39.7	98.2			S
Surr: 4-Terphenyl-d14	67		100.0		67.2	31.1	102			

Sample ID: Icsd-53602	SampT	ype: LC	SD	Tes	tCode: El	PA Method	8270C: Semi	volatiles		
Client ID: LCSS02	Batch	n ID: 53	602	F	RunNo: 7	0502				
Prep Date: 7/9/2020	Analysis D	ate: 7/	21/2020	5	SeqNo: 2	455449	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	46	10	100.0	0	46.4	46.3	97.3	0.118	52.7	
4-Chloro-3-methylphenol	53	10	100.0	0	53.3	46.9	99.1	67.5	45.2	R
2-Chlorophenol	36	10	100.0	0	36.0	39.1	98.2	14.1	51.8	S
1,4-Dichlorobenzene	21	10	100.0	0	21.3	28.6	87.9	48.0	59.6	S
2,4-Dinitrotoluene	68	10	100.0	0	68.3	44	88.3	5.76	46.5	
N-Nitrosodi-n-propylamine	34	10	100.0	0	34.5	40.3	107	3.14	47.7	S
4-Nitrophenol	45	20	100.0	0	44.5	26.1	60.9	6.64	42.6	
Pentachlorophenol	73	20	100.0	0	73.3	30.6	83.6	0.591	48.7	
Phenol	21	10	100.0	0	21.2	22.7	63.7	5.98	47.1	S
Pyrene	70	10	100.0	0	69.8	51.4	90	0.769	26.6	
1,2,4-Trichlorobenzene	30	10	100.0	0	29.5	35	94.3	30.0	52.5	S
Surr: 2-Fluorophenol	26		100.0		25.7	19.1	74.7	0	0	
Surr: Phenol-d5	20		100.0		19.8	19.2	57	0	0	
Surr: 2,4,6-Tribromophenol	67		100.0		66.9	31	96.4	0	0	
Surr: Nitrobenzene-d5	37		100.0		36.6	46.2	101	0	0	S
Surr: 2-Fluorobiphenyl	37		100.0		37.1	39.7	98.2	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

D Sample Diluted Due to Matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

68

WO#: **2007334**

24-Jul-20

Client: Glorieta GeoScience
Project: TSV KMF VRP

Surr: 4-Terphenyl-d14

Sample ID: Icsd-53602 SampType: LCSD TestCode: EPA Method 8270C: Semivolatiles

100.0

Client ID: LCSS02 Batch ID: 53602 RunNo: 70502

Prep Date: **7/9/2020** Analysis Date: **7/21/2020** SeqNo: **2455449** Units: **µg/L**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

68.0

31.1

102

0

0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 26 of 27

Hall Environmental Analysis Laboratory, Inc.

WO#: **2007334**

24-Jul-20

Client: Glorieta GeoScience
Project: TSV KMF VRP

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBW Batch ID: G70266 RunNo: 70266

Prep Date: Analysis Date: 7/12/2020 SeqNo: 2442614 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 0.050

Surr: BFB 9.8 10.00 98.0 70 130

Sample ID: 2.5 ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSW Batch ID: G70266 RunNo: 70266

Prep Date: Analysis Date: 7/12/2020 SeqNo: 2442615 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 70 0.46 0.050 0.5000 92.0 130

Surr: BFB 10 10.00 104 70 130

Sample ID: 2007334-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: Culvert Well Batch ID: G70266 RunNo: 70266

Prep Date: Analysis Date: 7/12/2020 SeqNo: 2442618 Units: mg/L

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 0.44 0.050 0.5000 0 88.0 70 130

Surr: BFB 11 10.00 105 70 130

Sample ID: 2007334-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: Culvert Well Batch ID: G70266 RunNo: 70266

Prep Date: Analysis Date: 7/12/2020 SeqNo: 2442619 Units: mg/L

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 0.43 0.050 0.5000 86.0 70 2.30 130 20 Surr: BFB 11 10.00 106 70 130 0 0

Qualifiers:

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 27 of 27



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Glorieta GeoScience Work Order Number: 2007334 RcptNo: 1 Received By: Scott Anderson 7/7/2020 3:20:00 PM Completed By: Isaiah Ortiz 7/8/2020 10:34:24 AM I-O-K 7-8.70 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 NA 🗍 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗸 NA 🗌 Samples were collected the same day and chilled. 5. Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? No 🗌 Yes 🗸 8. Was preservative added to bottles? Yes No V NA 🗍 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA 🗸 10. Were any sample containers received broken? Yes 🗌 No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 Adjusted? 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Yes 🗸 Checked by: No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes NA V No Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 6.8 Good Not Present

Chain	-of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:			-	5		1	(1		0	
Client: Glor	Glorieta (Geoscionce, Inc.		□ Rush			L @	PAPE		MALL ENVIR ANALYSTS I	S S		ENVIRONMENTAL YSTS I ABOPATOPY	AL	
Φ.			Project Name:	iii			_	4 4000		And Old Construction of the Construction of th		5 ,			
Mailing Address:	S: 0.0	Box 5727	751	KMFV	VRP	4901	4901 Hawkins NE	IS NE	- Albi	Albuquerane NM 87109	II AII. CO	18710	σ		
Santa	127	10548 WW	Project #:			<u>Т</u>	505-345-3975	5-397		Fax 505	505-345-4107	107)		
Phone #: 505	In	-660-4509	1001						\na	sis Rec	Request				
email or Fax#: ohrakos	drako	@ glorieta	520 com Project Manager:	iger:					⁵O		(tr				_
QA/QC Package:		; ; ;	Des 1	Draless		AM \	0.50	SWI	S ԠO	-	ıəsq∀				
x Standard		☐ Level 4 (Full Validation)	- 1			OF		S02	d ''		/Ju				
Accreditation:	☐ Az Cor☐	☐ Az Compliance	Sampler: D	Draleos/ (S reen wald	O / DI				(∀					
□ EDD (Type)			# of Coolers:			AĐ.			' ^E OI						
			Cooler Temp(including CF): 6		8-0-8 (c)	IPD(۱, ۱						
Date	Motrix	Sample Name	Container	Preservative	HEAL No.	\ X∃T8 	M) 80:	AHs b	i, F, B	V) 092 8) 072	otal Co	7			
9	As res	Rinsale	Soo m	ИОМ	100	ı 📐			0	.)	_			+	
-	9		rsant	1								9.3		+	_
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54:0100/1/2	Ags.	colourt Well	50021 anh	MCV	700	X				X					
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If necessary,	samples subr		ontracted to other ac	scredited laboratorie	es. This serves as notice of this	possibility. Any	sub-contr	acted dat	a will be o	learly not	ated on th	e analytic	cal report		- 1