



May 23, 2019

Ms. Camie Pederson
Environmental Manager
Holiday Companies
4567 American Blvd. West
Bloomington, Minnesota 55437

Delivered via email: camie.pederson@holidaycompanies.com

**RE: Corrective Action Work Plan (CAP - AC-07) May 2019
Holiday Station Store #272
200 1st Street West, Havre, Montana
Facility ID No. 21-08068; Releases 3537 and 5121, Work Plans 33833 and 33834**

Dear Ms. Pederson:

This letter presents Tetra Tech's proposed corrective action plan for the gasoline release at the above-referenced site. Tetra Tech prepared this work plan in response to Montana Department of Environmental Quality's (MDEQ) letter request dated April 18, 2019 (MDEQ, 2019). The MDEQ required the following tasks:

- *Perform the following actions monthly:*
 - *Measure free product levels in each well containing free product.*
 - *Conduct free product recovery with appropriate disposal from each well where free product is present.*
 - *Collect and analyze sub-slab and indoor air samples from both the Marden's Trailer Service and Holiday 272 buildings. The Morse building which has historically been sampled does not need further sampling.*
 - *Measure appropriate parameters to assess the performance of the SVE systems.*
 - *Obtain vapor samples from the exhaust of the SVE systems for analysis.*
 - *Analyze all vapor and air samples using EPA Method TO-15 and APH.*

- *Perform the following actions semi-annually during low and high groundwater conditions:*
 - *Coordinate groundwater sampling with the nearby Golden Spike facility, if possible. This should be conducted to obtain the most complete water quality information. If sampling is unable to be performed in conjunction with the Golden Spike, only obtain water level measurements from wells associated with that facility.*
 - *Collect groundwater samples from all wells associated with the release except for those containing free product. During sampling also obtain field parameters including pH, Temperature, Specific Conductivity (SC), Dissolved Oxygen (DO), Oxidation-Reduction Potential (ORP), and Turbidity.*

- Analyze groundwater samples obtained for volatile petroleum hydrocarbons (VPH); extractable petroleum hydrocarbon (EPH) screen, with fractionation, if necessary; and intrinsic biodegradation indicators (IBIs).
- Design a horizontal vapor extraction system to be placed under the Holiday Stationstore 272 building. This design will include all relevant parameters for analysis, such as, but not limited to:
 - Appropriate flow rate for vapor extraction.
 - Connections to the existing SVE systems, with additional blowers, if necessary.
 - Estimated radius of influence of the system.
 - Designs and procedures for field sampling and analysis.
 - Determination of system performance and potential optimization.
- Validate all laboratory analytical data using DEQ's Data Validation Summary Form found online under the Resources tab at: <http://deq.mt.gov/Land/lust>.
- Discuss ongoing WP tasks and results with DEQ's project manager; submit written agreed-upon WP modifications as required to complete the WP objectives.
- Prepare a Release Closure Plan (RCP); discuss results with DEQ's project manager. DEQ expects the RCP completion to be complex as it covers both multiple releases and active cleanup systems. Use the RCP format found online under the Resources tab at: <http://deq.mt.gov/Land/lust>.
- Prepare and submit a Standardized Abbreviated Generic Applications Report (Report_AR-07) after each semi-annual monitoring event. The Reports are expected to include all the content outlined in the MR-01 Report format and the following:
 - Background information of the Releases including amount of product lost for Release 5212, operation of remediation systems, and history of remedial actions performed.
 - Descriptions of indoor air, sub-slab, and soil vapor extraction sampling procedures and analytical results.
 - Procedures of free product recovery and total amount removed.
 - Any other actions performed in the semi-annual time span.
 - The first AR-07 Report will include a section on the installation of the new horizontal vapor extraction system installed under the Holiday Stationstore 272.
 - The second AR-07 Report will include the attached completed RCP.
- Use standardized DEQ WP and report formats found online at: http://deq.mt.gov/Land/lust/cap_reports.
- Submit WP and reports electronically following the Petroleum Tank Cleanup Section submittal requirements found under Resources at: <http://deq.mt.gov/Land/lust>.

BACKGROUND INFORMATION

The Holiday Station Store #272 is located at 200 1st Street West, in the south half of the southeast quarter of the southwest quarter of Section 5, Township 32 North, Range 16 East, Havre, Hill County, Montana (Figure 1). The site consists of a store building, an underground storage tank (UST) basin with three gasoline USTs and one diesel UST, and six fuel dispenser islands (Figure 2). The site is bordered to the north, west, and east by commercial properties and is bordered to the south by residential properties.

The site is located on alluvial clays, silts, sands, and small gravels of Quaternary-age that were deposited in the floodplain of the Milk River (Vuke, et.al., 2007). Groundwater is present at depths of eight to 11 feet below ground surface (bgs) in these alluvial deposits. Based on previous investigations, the near-surface geology consists of silty sand interbedded with silty clay and sand to a depth of approximately 20 feet bgs (Tetra Tech, 1999, 2002, and 2007). Groundwater flow is generally to the north toward the Milk River, which is located approximately 2,000 feet north of the site.

The Holiday Station Store #272 site has been used as a fueling facility since the mid-1980s. A release of petroleum hydrocarbons was discovered during an upgrade of the USTs during August 1998 (Rocky Mountain Oil, 1998). Groundwater monitoring conducted during the previous investigations referenced above have indicated that petroleum hydrocarbon impacts in excess of the MDEQ risk-based screening levels (RBSLs; MDEQ, 2018) are present in several on-site monitor wells.

A new petroleum hydrocarbon release was discovered on February 17, 2017. This release was due to gasoline leaking from a functional element in the premium gasoline UST. The volume of the release is unknown. Tetra Tech investigated the release on March 29, 2017 and measured free product in monitor wells HHO-1 and HHO-2 (Figure 2).

An investigation was conducted in May and June 2017 to determine the extent of the free product and dissolved petroleum hydrocarbons in groundwater. Nine monitor wells and three product recovery wells were installed. Soil vapor extraction piping (SVE) was connected to the product recovery wells and two monitor wells and vapor phase petroleum hydrocarbons are being removed from the subsurface soils. In August 2017, SVE piping was connected to five additional monitor wells (Tetra Tech, 2018).

Free petroleum product is being recovered from seven wells using Xitech[®] product recovery skimmers. Free product was also pumped from five additional wells on a periodic basis in May and June 2017.

All monitor wells without measurable free product were sampled during June 2017, September 2017, December 2017, April 2018, and July 2018 for VPH and EPH. The majority of the wells had VPH and EPH constituent concentrations exceeding the MDEQ RBSLs.

Sub-slab vapor monitoring was conducted monthly from May 2017 through May 2018 at the Marden and Holiday buildings. Indoor air was sampled during this same period at the Marden and Holiday buildings. Also, the crawl space air was monitored in the Morse building. Sub-slab and crawl space samples were analyzed for volatile organics and air petroleum hydrocarbons and indoor air samples were analyzed for volatile organics only.

Volatile organics were detected in all samples at low concentrations. For indoor air samples, benzene and ethylbenzene concentrations slightly exceed the EPA regional screening levels (EPA, 2017). No regulatory screening levels were exceeded in the Morse building crawl space samples.

SCOPE OF WORK

The scope of work for this project includes the following five primary tasks including; project management, groundwater monitoring, vapor intrusion assessment and indoor air sampling, remediation system monitoring and maintenance including the installation of a new SVE line under the Holiday building, and reporting. Details of these tasks are described below.

Project Management

This task includes the time necessary for coordination and scheduling of the project with Holiday Companies, MDEQ, adjacent land owners, and subcontractors. This task also includes time necessary for conducting an underground utility locate using the Montana One-Call service, City of Havre right-of-way, arranging and tracking waste material disposals, and communications. In addition, the current health and safety plan (HASP) will be updated and revised to address activities in this work plan prior to conducting any 2019 on-site activities.

Groundwater Monitoring

Groundwater monitoring will be conducted semi-annually during June 2019 and December 2019 (weather permitting). Fluid levels (water and free product) will be collected semi-annually during September 2019 and March 2020. Tetra Tech will coordinate groundwater monitoring events with the Golden Spike facility and attempt to conduct the semi-annual groundwater at the same time as Golden Spike groundwater monitoring. The following describes the methods for groundwater monitoring.

- Depth to groundwater/product will be measured at all site monitoring and recovery wells (HHO-1 through HHO-18, GSMW-2 through GSMW-4, RW-1 through RW-4, and Tire-Rama well TWM-1) using an electronic product interface probe. The interface probe will be decontaminated between each measurement by washing with Liquinox[®] soap and rinsing with deionized water.
- Groundwater samples will be collected from monitor wells HHO-1 through HHO-18, and TMW-1. Wells with light non-aqueous phase liquid (LNAPL) will also not be sampled. It is assumed that all wells will be sampled, and no wells contain LNAPL.
- The wells will be purged using disposable plastic tubing and a peristaltic pump. Field parameters consisting of pH, temperature, specific conductance, dissolved oxygen (DO), turbidity, and oxidation-reduction potential (ORP) will be monitored during purging. Purging will continue until these parameters have stabilized or three well volumes have been removed. Purged water will be discharged on the paved surfaces for evaporation. If free product is encountered, it will be placed in the on-site product recovery container for proper disposal.
- The water samples will be collected from the wells through the peristaltic pump at the lowest flow rate attainable. The groundwater samples will be placed in laboratory-provided containers, preserved with appropriately, transported in an ice-filled cooler, and submitted to Pace Analytical Services or Energy Laboratories in Billings, Montana for analysis of VPH and EPH using the Massachusetts Department of Environmental Protection (MDEP) methods.

- Samples will also be analyzed for intrinsic biological indicators including nitrate+nitrite (Method E353.2), sulfate (Method E300.0), dissolved iron (Method E200), dissolved manganese (Method E200), and methane, ethane, and ethene (GC-FID / Kampbell).
- One trip blank and one duplicate sample will be collected with each groundwater monitoring event. Trip blank samples will be analyzed for VPH and the duplicate samples will be analyzed for VPH, EPH, and IBIs.
- During the fluid level monitoring events, depth to groundwater/product will be measured at all site monitoring and recovery wells (HHO-1 through HHO-18, GSMW-2 through GSMW-4, RW-1 through RW-4, and Tire-Rama well TWM-1) using an electronic product interface probe. The interface probe will be decontaminated between each measurement by washing with Liquinox[®] soap and rinsing with deionized water.
- All groundwater data will be validated using MDEQ's Data Validation Summary form.

Vapor Intrusion and Indoor Air Sampling

This task is associated with vapor monitoring for the following properties: the Marden building located directly west of the site at 220 1st Street West and the Holiday StationStore building at 200 1st Street West (Figure 2). Sub-slab and indoor air monitoring will be collected at the Holiday StationStore and Marden building. All vapor intrusion sampling will be conducted monthly for 12 months. Procedures for this task are described as follows:

- Sub-slab vapor samples will be collected from the permanent vapor sampling points installed in the two buildings.
- Sub-slab samples will be collected into batch-cleaned 6-liter Summa[®] canisters with one-hour flow controllers.
- The indoor air samples in the two buildings will be collected using 8-hour flow controller and batch-cleaned 6-liter Summa[®] canister.
- All vapor samples will be shipped to Pace Analytical Services laboratory in Minneapolis, Minnesota using chain-of-custody procedures.
- Sub-slab vapor and indoor air samples collected in the buildings will be analyzed for air petroleum hydrocarbons (APH) using the MDEP method and volatile organics using EPA Method TO-15.
- All air data will be validated using MDEQ's Data Validation Summary form.

Remediation System Monitoring and Maintenance

Tetra Tech will visit the site monthly for 12 months to keep the SVE system and product recovery system operational and collect the following information. The following details describe the proposed methods for these subtasks.

SVE System Monitoring

- Evaluate the electrical and mechanical status of the system to ensure that it is running properly.

- Tetra Tech will collect the following data:
 - Air flow rate on each SVE line, and SVE blower inlet and exhaust.
 - Vacuum pressure on each SVE line and SVE blower inlet.
 - Volatile organic compounds using a flame ionization detector (FID) on each SVE flow line.
 - Volatile organic concentrations at the SVE system inlet to the blowers using 6-liter Summa canister and one-hour flow controller. This sample will be analyzed for APH using EPA Method TO-15.

Product Recovery System Monitoring

- Evaluate the status of the system to ensure that it is running properly.
- Replace empty nitrogen gas cylinders as necessary.
- Adjust the pumping duration and schedule of each pump as necessary.
- Measure the fluids in the recovery drum to determine the volume of free product recovered during the reporting period.
- Troubleshoot product recovery pumps not working and get them back in service.
- If the product recovery tank is full, then schedule disposal of the recovered product with Clean Harbors or similar. The disposal entity will pick up the product and dispose of the liquid contents at an EPA approved out-of-state location.

Install an Additional Horizontal SVE Line

- Saw cut the 6-inch thick concrete in 2x3-foot rectangles on the north and south sides of the Holiday building.
- Daylight the sawcut area to a depth of four feet using hydrovac equipment to clear the excavation of underground utilities.
- Using directional boring equipment, install 20 feet of 2-inch diameter 0.010-slot PVC well screen in the center of the building in a north-south direction.
- A trench will be saw cut into the concrete and asphalt to run SVE piping (2-inch diameter Schedule 40 PVC) from the proposed SVE line to a SVE system shed located in the southwest corner of the Holiday property (Figure 2). This piping trench will be on the south side of the Holiday building near the alley right-of-way.
- The PVC pipe will be bedded with $\frac{3}{4}$ -inch minus crushed rock to six inches above the pipe. The trench will then be re-paved with ready-mix concrete.

REPORTING

Upon completion of the tasks listed above, Tetra Tech will prepare two semi-annual reports summarizing groundwater monitoring, semi-annual fluid level measurement collection, SVE horizontal line installation, SVE operation and maintenance, product recovery system operation and

maintenance, and a release closure plan which will be prepared and updated. The report will include figures depicting site features and well locations, groundwater sampling results, data validation, fluid level data, SVE operation data, product recovery data, and details for the new product recovery wells and horizontal SVE line installation.

SCHEDULE AND COSTS

The above tasks will be conducted in 2019-2020 following receipt of project authorization by Holiday Companies and MDEQ approval. Estimated project costs are shown on the estimated cost worksheet included in Attachment A and the groundwater monitoring unit cost worksheet for the Petroleum Tank Release Compensation Board is included in Attachment B. The subcontractor bids are included in Attachment C.

PROPOSAL AUTHORIZATION

This work will be conducted in accordance with the terms and conditions of the Master Consulting Services Agreement between Holiday Companies and Tetra Tech, Inc. dated March 28, 2017. This work plan may be accepted by signing the attached *Work Authorization* (Attachment D) and returning a copy to our Billings office. If you have questions or comments regarding this work plan, please call us at (406) 248-9161. For your convenience we have forwarded a copy of this work plan to Mr. William Bergum at the MDEQ. We appreciate the opportunity to provide you with environmental consulting services.

Sincerely,

Tetra Tech, Inc.



Paul E. Lemire
Project Scientist



Jeff Rice
Environmental Group Manager

PEL/JR/ba

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Enclosures:

Figures

Attachment A: Estimated Cost Worksheet

Attachment B: PTRCB Groundwater Monitoring Unit Cost Worksheet

Attachment C: Subcontractor Bids

Attachment D: Work Authorization

cc: William Bergum, MDEQ; wbergum@mt.gov
Ann Root, Montana Petroleum Tank Release Compensation Board (MPTRCB)
aroot@mt.gov

REFERENCES

EPA, 2017. US Environmental Protection Agency (EPA) Regional Screening Level (RSL) for Composite Worker Ambient Air Table (TR = 1E-06, THQ = 0.1). Regional Screening Levels for Chemical Contaminants at Superfund Sites. June 2017.

MDEQ, 2019. Additional Corrective Action and Work Plan Required for the Petroleum Release at the Holiday Station Store 272, 200 1st Street West, Havre, Hill County, Montana; Facility ID 21-08068, Releases 3537 and 5212, Work Plans 33833 and 33834. Letter from William Bergum to Ms. Camie Pederson. April 18.

MDEQ, 2018. Montana Tier 1 Risk-Based Corrective Action Guidance for Petroleum Releases. Montana Department of Environmental Quality. Helena, Montana. May.

Rocky Mountain Oil Company, 1998. Petroleum Release Section 30-Day Release Report, Holiday StationStore #272, Havre, Montana. Report submitted to Montana Department of Environmental Quality, November.

Tetra Tech (Maxim Technologies, Inc.), 1999. Results of Remedial Investigation, Holiday Station Store #272, Havre, Montana. Report submitted to Rocky Mountain Oil Company, May.

Tetra Tech (Maxim Technologies, Inc.), 2002. Results of Remedial Investigation, Holiday Station Store #272, Havre, Montana. Report submitted to Rocky Mountain Oil Company, February.

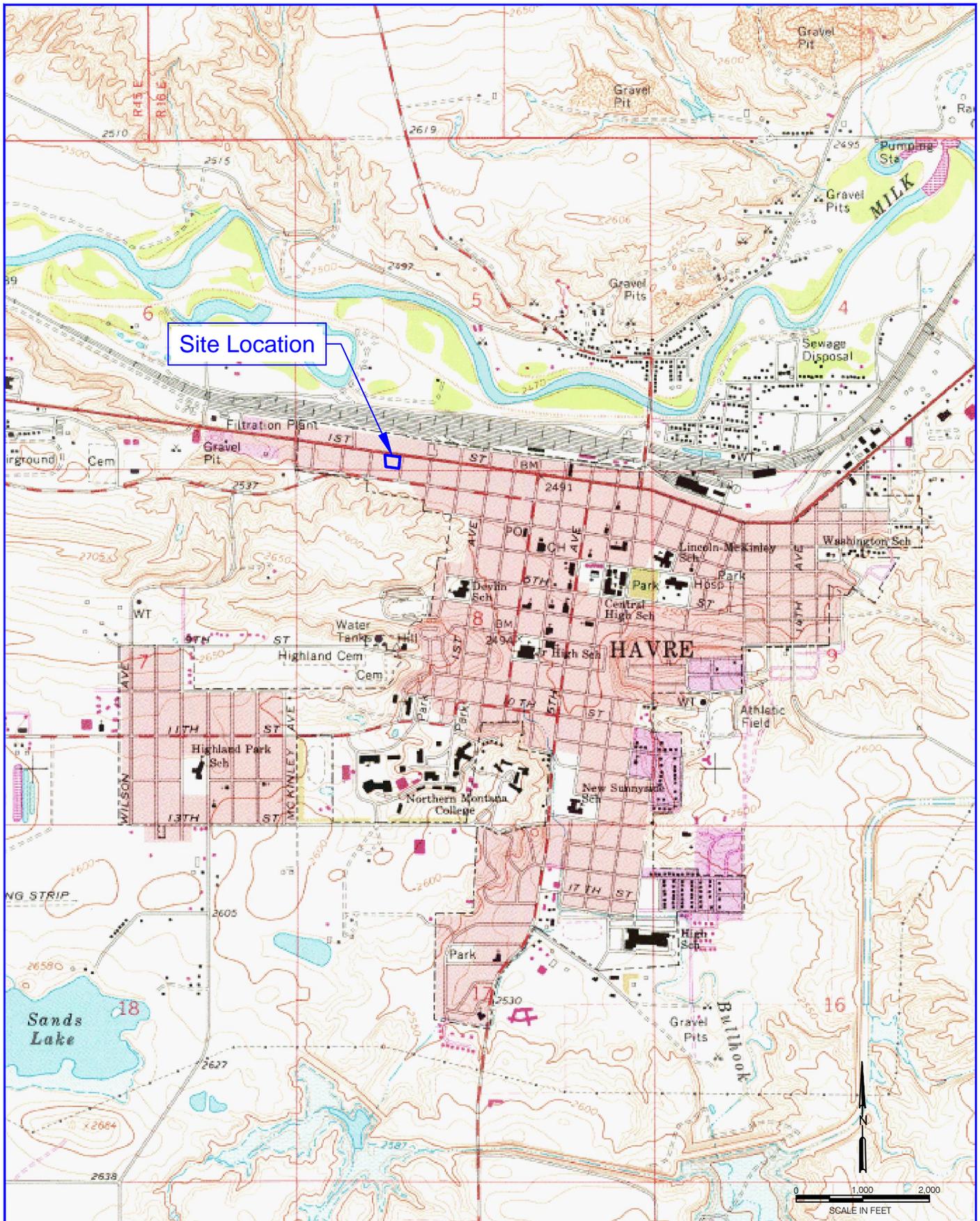
Tetra Tech (Maxim Technologies, Inc.), 2007. Remedial Investigation and October 2006 Groundwater Monitoring Report, Holiday Station Store #272, Havre, Montana. Report submitted to Rocky Mountain Oil Company, March.

Tetra Tech, 2018. May-August 2018 Groundwater Monitoring, Air Monitoring, and Remediation System Progress Report, Holiday Station Store #272, 200 1st Street West, Havre, Montana, MDEQ Facility ID No. 21-08068, Release Nos. 3537 and 5212. November 8.

Vuke, S.M., Porter, K.W., Lonn, J.D. Lopez, D.A., 2007, *Geologic Map of Montana*, Montana Bureau of Mines and Geology: Geologic Map 62C. Scale 1:5000,000.



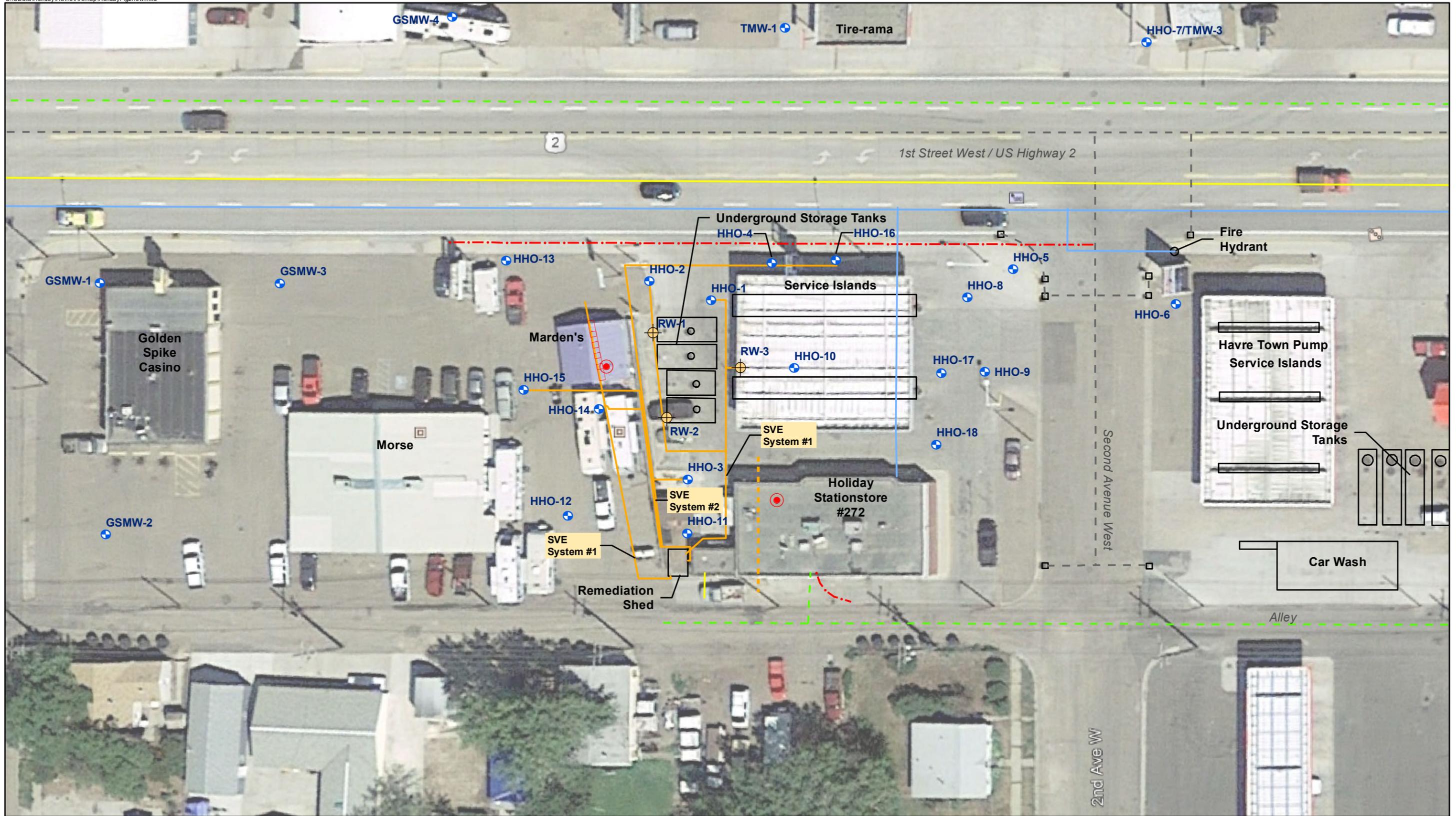
FIGURES



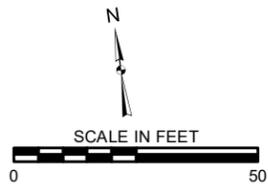
SITE LOCATION MAP
 Hoiliday Store #272 Release
 200 1st Street West
 Havre, Montana

DATE: 01/22/2014
 REVIEWED: SWR
 PROJ. NO. 114-551381

DRAWN BY: DLL
 APPROX. SCALE: 1"=2,000'
 FIGURE NO. 1



114-551381-17
4/23/2019



- | | | | |
|-------------------------------|----------------------|----------------|-----------------------|
| Recovery Well | Facilities | Water Lines | SVE Lines |
| Monitor Well | Underground Electric | Sanitary Sewer | SVE Perforated Piping |
| Storm Sewer Drains | Natural Gas | Storm Sewer | Proposed SVE Lines |
| Sub-slab Vapor Sampling Point | | | |

Figure 2

**Monitor and Recovery Well Locations
Holiday Stationstore #272
Havre, Montana**



ATTACHMENT A

Estimated Cost Worksheet

COST ESTIMATE
2019-20 Additional Corrective Action Work Plan
Holiday StationStore #272
Havre, Montana
May 23, 2019

ITEM	QUANTITY	RATE	UNITS	COST
Task 1: Work Plan Preparation				
Project Manager	4	148.00	per hour	\$ 592.00
Project Hydrogeologist	16	127.00	per hour	\$ 2,032.00
Drafting	4	105.00	per hour	\$ 420.00
Clerical	1	55.00	per hour	\$ 55.00
Subtotal				\$ 3,099.00
Task 2: Project Management				
Project Manager	6	148.00	per hour	\$ 888.00
Project Hydrogeologist	24	127.00	per hour	\$ 3,048.00
Sr. Technician	8	87.00	per hour	\$ 696.00
Subtotal				\$ 4,632.00
Task 3: Groundwater Monitoring				
<i>Semi-Annual Groundwater Monitoring (June and December) & Semi-Annual Fluid Level Measurements of all Wells (September and March)</i> <i>(See Attached Cost Breakdown)</i>				
Semi-Annual Sampling (2 events)	1	38,458.00	LS	\$ 38,458.00
Subtotal				\$ 38,458.00
Task 4: Vapor Intrusion Sampling (monthly for 12 months)				
Sr. Technician, Monitoring	48	87.00	per hour	\$ 4,176.00
Project Scientist (Data Validation)	48	127.00	per hour	\$ 6,096.00
Summa Canister and flow controller rental	48	110.00	each	\$ 5,280.00
Subtotal				\$ 15,552.00
Task 5: Vapor Intrusion Air Laboratory Analysis				
APH analysis	60	190.00	each	\$ 11,400.00
TO-15 analysis	48	225.00	each	\$ 10,800.00
Subtotal				\$ 22,200.00
Task 6: Remediation System O&M (monthly for 12 months)				
Sr. Technician, O&M	48	87.00	per hour	\$ 4,176.00
Product disposal (Clean Harbors; 200 gallon tote)	4	2,100.00	per tote	\$ 8,400.00
Subtotal				\$ 12,576.00
Task 7: Air Sampling & Remediation System Mobilization				
Mobilization	5,000	2.25	per hour	\$ 11,250.00
Subtotal				\$ 11,250.00
Task 8: Remediation System O&M Equipment				
FID rental	24	14.05	per hour	\$ 337.20
Air velocity meter rental	24	7.50	per hour	\$ 180.00
Summa Canister and flow controller rental	12	110.00	each	\$ 1,320.00
Nitrogen gas - T cylinder rental and shipping (12 months supply)	72	80.00	each	\$ 5,760.00
Xytech recovery pumps (7) rental, 12 months	12	350.00	per month	\$ 4,200.00
Subtotal				\$ 11,797.20

COST ESTIMATE
2019-20 Additional Corrective Action Work Plan
Holiday StationStore #272
Havre, Montana
May 23, 2019

ITEM	QUANTITY	RATE	UNITS	COST
Task 9: SVE Horizontal Line Installation				
Project Hydrogeologist	30	127.00	per hour	\$ 3,810.00
SVE Line Installation Contractor (directional boring)	1	6,500.00	LS	\$ 6,500.00
Hydrovac	8	255.00	per hour	\$ 2,040.00
SVE System Installation Contractor	1	2,499.00	LS	\$ 2,499.00
2-inch dia. PVC well screen	2	41.00	each	\$ 82.00
2-inch dia. PVC well pipe	3	29.00	each	\$ 87.00
PVC pipe and fittings	1	200.00	LS	\$ 200.00
Crushed rock	3	30.00	CY	\$ 90.00
Ready-mix concrete	2	110.00	CY	\$ 220.00
Soil and hydrovac soil disposal (estimate)	1	2,000.00	LS	\$ 2,000.00
Markup	0.07	13,718.00	LS	\$ 960.26
Subtotal				\$ 18,488.26
Task 10: SVE Line Installation Mobilization				
Mobilization	510	3.33	per hour	\$ 1,698.30
Subtotal				\$ 1,698.30
Task 11: Lodging and Per Diem				
Lodging	15	125.00	per day	\$ 1,875.00
Per Diem	28	45.00	per day	\$ 1,260.00
Subtotal				\$ 3,135.00
Task 12: Reporting (2 reports)				
Project Manager	6	148.00	per hour	\$ 888.00
Sr. Hydrogeologist	60	127.00	per hour	\$ 7,620.00
Project Scientist (Groundwater Data Validation)	16	127.00	per hour	\$ 2,032.00
Drafting	8	105.00	per hour	\$ 840.00
Clerical	4	55.00	per hour	\$ 220.00
Subtotal				\$ 11,600.00
TOTAL				\$ 154,485.76



ATTACHMENT B

PTRCB Groundwater Monitoring Unit Cost Worksheet

Petroleum Tank Release Compensation Board Groundwater Monitoring and Sampling Unit Cost Worksheet

Contractor Information

Company Name:
 Address:
 City, State, Zip:
 Cost Estimator: Phone:

Signature: Date:

Project Information

Site Name: Facility ID#
 Address: Release #
 City: WP ID#

Monitoring Well Details

Total Number of Wells at Site
 Number of Water Level Measurements Only ⁽²⁾
 Number of Wells to be Monitored/Sampled ⁽³⁾
 Well Casing Diameter (inches)
 Average Depth to Groundwater (ft)
 Average Depth of Wells (ft)

Well Purging Method

- Hand Bailing
- Peristaltic Pump
- Submersible Pump
- Micropurge
- No Purge
- Other (please specify)

Monitoring/Sampling Interval

Estimated Start Date:
 Quarterly # of events
 Semi-annual # of events
 Annual # of events
 Other # of events (specify)

Other Services

- Free Product Recovery
- Groundwater Well survey
- Wellhead retrofit/reconstruction
- Other (please specify)

Cost Estimate Explanation:

- ⁽¹⁾ Mobilization/Demobilization: Includes all costs and mileage to transport equipment, materials, and personnel to and from the site location. More than one mobilization event will require justification and pre-approval by the DEQ-PTCS and Board staffs. This item should be on a per mile unit rate.
- ⁽²⁾ Water Level Measurements: Includes all costs (labor, equipment, materials, and well consumables) to measure groundwater depth, collect other groundwater information from well, and decontaminate equipment. The well monitoring costs should be on a per well basis and does not include purging and sampling of the well.
- ⁽³⁾ Well Monitoring/Purging/Sampling: Includes all costs (labor, equipment, materials, and well consumables) to monitor (see above), purge, sample groundwater, decontaminate equipment, take water level measurements and handle disposal of contaminated purge water. The cost should be on a per well basis.
- ⁽⁴⁾ Laboratory Analysis: Includes all laboratory costs for all wells, for duration of project. It is realized that some laboratory analyses will not be conducted for every event and that the well sampling frequency may change.
- ⁽⁵⁾ PTRCB Sampling Fee: Includes all costs related to management of the sample including: sample container, cooler, packing, shipping, handling, sample preservation, and office related handling charges. The sample is defined as the laboratory ID number on the laboratory invoice.
- ⁽⁶⁾ Report Preparation and Project Management: Includes all costs (labor and materials) project management, report preparation, and report submittal, including all office related costs, per groundwater sampling event.

Groundwater Monitoring and Sampling Unit Cost Worksheet

Task	Unit Cost	Number of Units	Total Cost
Work Plan Preparation	[]	0	\$0.00
Project Management	\$127.00 /hr	4	\$508.00
Mobilization/Demobilization ⁽¹⁾	\$2.25 /mile	2,500	\$5,625.00
Field Work			
Water Level Measurements ⁽²⁾	\$42.25 /well	14	\$591.50
Well Monitoring/Purging/Sampling ⁽³⁾	\$186.00 /well	38	\$7,068.00
Other Service (please specify) <input type="text" value="Semi-Annual Fluid Level Measurement"/>	\$42.25	52	\$2,197.00
Other Service (please specify) <input type="text"/>	[]	[]	\$0.00
Lodging & Per Diem (Lodging – actual only)			
Lodging: # of people <input type="text" value="1"/>	\$125.00 /person per day	24	\$3,000.00
Food: # of people <input type="text" value="1"/> (\$23.00 max a day allowed)	\$23.00 /person per day	36	\$828.00
Laboratory Analysis ⁽⁴⁾			
Volatile Petroleum Hydrocarbons (VPH)	\$120.00 /sample	42	\$5,040.00
Extractable Petroleum Hydrocarbons (EPH)			
EPH “screen”	\$75.00 /sample	40	\$3,000.00
EPH “fractions”	\$150.00 /sample	40	\$6,000.00
BTEX/MTBE/Naphthalene only-method:	[] /sample	[]	\$0.00
Polyaromatic Hydrocarbons (PAHs)	[] /sample	[]	\$0.00
PTRCB sampling fee (\$10.00 allowed) ⁽⁵⁾	\$10.00 /sample	40	\$400.00
Other (please specify) <input type="text" value="IBI (intrinsic biological indicator)"/>	\$105.00 /sample	40	\$4,200.00
Other (please specify) <input type="text"/>	[] /sample	[]	\$0.00
Report Preparation ⁽⁶⁾			
Quarterly	[] /report	[]	\$0.00
Semi-annual	[] /report	[]	\$0.00
Annual	[] /report	[]	\$0.00
Other (Please specify) <input type="text"/>	[]	[]	\$0.00
Monitoring & Sampling Total:			\$38,457.50

Additional Conditions/Comments/Costs:

Trip blanks, 1 for each event, VPH analysis
 Duplicates, 1 for each event, VPH and EPH analysis
 PTRCB Sampling fee include 38 natural samples and two duplicates
 Reporting costs are presented in primary cost estimate
 Mobilization fees cover four trips

If you require assistance, call 406-444-9710
 Submit completed form to:
Petroleum Tank Release Compensation Board
 PO Box 200902, Helena MT 59620-0902



ATTACHMENT C

Subcontractor Bids



Lakeside Excavation Inc.
 220 22nd Ave W
 Havre, MT 59501
 (P)406-265-9401 (F)406-265-5693

Estimate

Date	Estimate #
4/14/2019	1138

Name / Address
Tetra Tech Tom Chapel 3801 Automation Way Suite 100 Fort Collins CO 80525

visit www.lakesideexcavation.com

Description	Qty	Cost	Total
Bore under Holiday Station Store in Havre MT 2005 JT 2020 With Down Hole tooling. Others to provide product to install	65	100.00	6,500.00
Hydro Excavation.	8	255.00	2,040.00
		Total	\$8,540.00

* The total dollar amount for the described work is based upon the conditions expressed above and others known to both parties. Any unforeseen problems such as a) Depth of existing utility lines different from the specifications or parties understandings b) Unmarked utilities that may be encountered c) De-watering if water is encountered d) Environmental hazards that may be present. Any or all may require increases in material and/or labor charges from that stated above.

All work to be completed in a workmanlike manner according to Montana Public Works Standards Specifications. Any alteration or deviation from above specifications involving extra costs will also become an additional charge. This agreement is contingent upon delays beyond contractor's control. Owner to carry fire, perils & other necessary insurance. Lakeside Excavation's workers are covered by Workman's Compensation Insurance.

Lakeside Excavation Inc.

By: _____
 Note: This proposal may be withdrawn if not accepted within _____ days.

ACCEPTANCE OF PROPOSAL - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature _____
 Date of Acceptance: _____



WILLIAMSON

DIRECTIONAL BORING

May 13, 2019

Paul Lemire
Tetra Tech
Billings, Mt.

RE: (Horizontal Directional Drilling)

Paul,

The following Quote is for HDD Pipe Installation for a 2" SVE Line under the Holiday Station Sore in Havre Mt.

- 1.) Mobilization **\$1,500.00**
- 2.) HDD installation of SVE Line **\$5,500.00**
 - A.) Included
 - 1.) All Support Equipment For HDD Operation
 - B.) Excludes:
 - 1.) Pipe/ Fittings
 - 2.) Excavation Work
 - 3.) Existing Utility Pot Holing
 - 4.) Traffic Control
 - 5.) Permits if needed

NOTE: Williamson Directional Boring has assumed that soil conditions are conducive to Horizontal Directional Drilling and that no unforeseen obstacles such as man-made obstructions, concrete, railroad ties, etc., buried logs, boulders, cobble rock, solid rock or interference that will compromise the accuracy of the Horizontal Directional Drilling System, etc. will be encountered. If unforeseen conditions should be encountered Williamson Directional Boring reserves the right to terminate the bore and negotiate and equitable adjustment with the owner or prime contractor.

Thank you for giving Williamson Directional Boring the opportunity to bid this for you and if you have any question, please feel free to call.

Respectfully Submitted
Dale Yurek





ATTACHMENT D

Work Authorization



WORK AUTHORIZATION

TO: *Holiday Companies*

FROM: Tetra Tech, Inc.

WORK AUTHORIZATION NO.: *May 2019 Corrective Action Plan*

PROJECT TITLE: *Corrective Action Work Plan (CAP - AC-07) May 2019*

PROJECT LOCATION: *Holiday Station Store #272 at 200 1st Street West, Havre, Montana*

Pursuant to the terms and conditions of the Consulting Services Agreement dated *March 28, 2017*, this Work Authorization hereby authorizes *Tetra Tech* to perform the specific services and under the particular conditions set forth herein:

- 1. **SCOPE OF WORK:** Per the Scope of Work attachment hereto.
- 2. **COMPENSATION:** *Presented in Attachment A of the proposal.*
- 3. **BILLING SCHEDULE:** *Monthly*
- 4. **TIME FOR COMMENCEMENT:** *2019 following receipt of project authorization by Holiday Companies and MDEQ approval.*
- 5. **TIME FOR COMPLETION:** *December 2020*
- 6. **REPORTING REQUIREMENTS:** *Two semi-annual reports, upon completion of tasks.*
- 7. **OTHER PROVISIONS:** *None*

Upon execution of this Work Authorization, Client and Tetra Tech agree to bound by and comply with all the terms and conditions contained in the above referenced Consulting Services Agreement, except as modified by the specific terms and conditions, if any, contained herein.

APPROVED AND ACCEPTED BY:

Holiday Companies
(Client)

Tetra Tech, Inc.
(Consultant)

Signed: _____
 Name: _____
 Title: _____
 Date: _____
 Phone: _____

Signed: 
 Name: Jeff R. Rice
 Title: Environmental Group Manager
 Date: May 23, 2019