

June 21, 2019

Mr. Reed Miner
Petroleum Tank Cleanup Section
MT Department of Environmental Quality
655 Timberwolf Parkway, Suite 3
Kalispell, MT 59901-1215

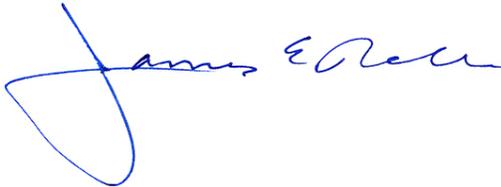
Re: **Additional Corrective Action Work Plan 2019** for the Petroleum Release at Holiday Stationstore 283,
2325 S Reserve Street, Missoula, MT; Facility ID 32-09694, Release 5320, Work Plan 33866.

Dear Mr. Miner:

Enclosed for your review is the **Additional Corrective Action Work Plan 2019** for the petroleum release at the Holiday Stationstore 283 in Missoula, Montana.

Thank you for your consideration of this work plan. If you have any questions or concerns, please call or contact me via e-mail jrolle@wcec.com.

Sincerely,



Jim Rolle
Director

Enclosure

ec: Camie Pedersen, Holiday Companies, Inc.; camie.pederson@holidaycompanies.com
Ann Root, PTRCB; aroot@mt.gov

Additional Corrective Action Work Plan

2019

Holiday Stationstore 283

2325 S Reserve Street

Missoula, MT 59801

Facility ID 32-09694, Release 5320, Work Plan 33866

Prepared for:

Ms. Camie Pederson

Holiday Companies, Inc.

4567 American Boulevard West

Bloomington, MN 55437

Prepared by:

West Central Environmental Consultants, Inc.

1030 South Ave. W.

Missoula, MT 59801

June 21, 2019

WCEC Project No. 19-12369-70

WCEC

West Central Environmental Consultants, Inc.

Nationwide Services

www.wcec.com

Environmental



Emergency Response



Industrial Services

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1.0 Introduction

West Central Environmental Consultants (WCEC) has prepared this additional corrective action work plan (CAP_AC-03) for the Holiday Stationstore 283 (Facility ID 32-09694, Release 5320) located at 2325 S Reserve Street in Missoula, Montana. This work plan was prepared as requested by the Montana Department of Environmental Quality (MTDEQ) in correspondence dated May 14, 2019. Completion of the scope of work included in this work plan is intended to assess the potential for petroleum constituents identified in soils beneath the underground storage tank (UST) system to leach to groundwater.

1.1 Site Description

The Holiday Stationstore 283 is located at 2325 S Reserve Street in Missoula, Missoula County, Montana. A site details map is included as Figure 1. The Public Land Survey System (PLSS) description for the site is the SE/4, SE/4, SE/4 of Section 30, T13N, R19W. The approximate geographic coordinates are N 46.84913°, W 114.04034°. Township, range, and section information was obtained using the United States Geological Survey (USGS) Southwest Missoula, Montana 1:24,000 Quadrangle.

The facility consists of a retail convenience store, car wash, and a petroleum storage/distribution system that includes 4 underground storage tanks (USTs) that service 3 pump islands [Figure 1]. Adjacent properties represent a mixture of residential and commercial properties. Surface cover at the facility is asphalt/concrete for vehicular traffic near the pump islands and store and landscaped grassy areas along the margins of the property. Topography at the site is relatively flat to gently sloping towards Reserve Street and South Avenue. Supply water is provided by a private drinking water well located on the northwest corner of the property near the car wash building and the facility is connected to the City of Missoula municipal sewer system.

The combined capacity of the 4 USTs is approximately 42,000 gallons of total petroleum storage. All of the USTs currently in use are constructed of cathodically protected steel with recently installed pressurized flexible double walled piping. Product storage capacity and type by tank for the current UST system is as follows:

Tank ID: 01, Tag Number: 3706, Install Date: 08-1987; 12,000 gallons, gasoline

Tank ID: 02, Tag Number: 3707, Install Date: 08-1987; 10,000 gallons, gasoline

Tank ID: 03, Tag Number: 3708, Install Date: 08-1987; 10,000 gallons, gasoline

Tank ID: 04, Tag Number: 3709, Install Date: 08-1987; 10,000 gallons, diesel

1.2 Release History

NWESTCO personnel discovered an accumulation of gasoline in the pump sump basin (STP basin) of Tank 1 during permitted upgrades to the UST piping and dispenser system at approximately 1700 on March 20, 2019. After further inspection, it appeared that product was emerging from the line-leak detection fitting connected to the STP assembly. WCEC met NWESTCO personnel at the facility at approximately 2245 on March 20, 2019 at which time Tank 1 was placed out of service. Further investigation began at 0800 on March 21, 2019. The STP basin appeared to adequately contain the accumulated product overnight with the tank/pump shut down. NWESTCO pumped the accumulated product from the STP basin into a 55 gallon drum for recycling. There was a significant accumulation of silt in the bottom of the STP basin which limited migration of product to the UST basin fill material. Additional fuel did not migrate into the sump from the surrounding basin fill material following removal of the product.

WCEC oversaw removal and stockpiling of petroleum-impacted UST basin fill material on March 21, 2019. Impacted materials were stockpiled on plastic and covered pending profiling for disposal at the Republic Services Missoula Landfill. Mobilization of additional excavation equipment was necessary for soil investigation to the west and beneath Tank 1. Investigation resumed on March 26, 2019. A test pit was excavated along the west side of Tank 1 to expose native soils adjacent and below the UST basin. The excavation was advanced to a depth of 13 feet, approximately 2 feet below the bottom of Tank 1. The soil sample from the west sidewall (WSW 2-10') was below RBSLs for all VPH and EPH constituents. The soil sample from immediately below Tank 1 (PB 1-13') exceeded the RBSL for benzene. Results from the soil investigation confirmed that a release to native soils beneath the UST basin had occurred.

Stockpiled soils were profiled and delivered under manifest to the Republic Services Missoula Landfill on April 2, 2019 and disposal documentation was included with the 30-Day Release Report submitted to the MTDEQ on May 10, 2019.

1.3 Hydrogeologic Setting

The surficial geology of the Missoula Valley is predominately comprised of Quaternary sand and gravel basin-fill which can reach thicknesses of over 200 feet. The sand and gravel is interbedded with and overlain by fine-grained silt and clay deposits associated with Glacial Lake Missoula sedimentation processes. The aquifer beneath the Missoula Valley is a sole-source drinking water aquifer consisting of coarse-grained Glacial Lake Missoula flood deposits. Most of the wells in the valley are completed in the shallow Quaternary basin-fill within 80 feet of the land surface [Smith, 2006]. Groundwater generally moves across the Missoula Valley along a northeast to southwest flow path, from the point where the Clark Fork River exits Hellgate Canyon towards the confluence of the Bitterroot and the Clark Fork Rivers at Kelly Island. The site is located in the Miller Creek-Bitterroot River Watershed.

2.0 Scope of Work

2.1 Scope of Work Summary

The scope of work requested by the MTDEQ consists of:

- Install one monitoring well near the source area to assess the potential for petroleum constituents to leach to groundwater.
- Monitor groundwater at the facility. Collect groundwater samples by low-flow methodology according to DEQ's Groundwater Sampling Guidance.
- Analyze groundwater samples for petroleum constituents as required by the Montana Tier 1 Risk-Based Corrective Action Guidance for Petroleum Releases.
- Properly containerize and dispose of investigation derived waste.
- Transmit soil boring logs and laboratory analytical data to DEQ. Meet with DEQ to discuss any potential data gaps.
- Discuss ongoing work plan tasks and results with DEQ's project manager; submit written agreed-upon work plan modifications as required to complete the work plan objectives.
- 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>.
- Prepare and submit one Remedial Investigation Report (RIR-01) detailing the results of the investigations completed to date. The Report is expected to include all the content outlined in the Report format, including but not limited to:
 - Describe the methods and results of the test pit investigation completed in March 2019, monitoring well installation, and groundwater monitoring.
 - Cumulative soil and groundwater tables.
 - Facility map(s) showing site infrastructure, sampling locations, and on-site utilities.
 - Append boring and test pit logs, monitoring well completion details, groundwater sampling logs, laboratory data packages, and completed data validation forms.
- Use standardized DEQ work plan and report formats found online at: http://deq.mt.gov/Land/lust/cap_reports.

- Submit work plan and reports electronically following the Petroleum Tank Cleanup Section (PTCS) submittal requirements found under Resources at: <http://deq.mt.gov/Land/lust>.

2.2 Monitoring Well Installation Overview

Following the underground utility locate, site inspection, and field determination of the proposed monitoring well location, WCEC will direct and supervise the advancement of the monitoring well boring at the facility. The approximate location of the proposed monitoring well is shown on Figure 1. During advancement of the well boring, WCEC personnel will continuously field screen soils using a Rae Systems MiniRae™ 3000 photoionization detector (PID), as well as visual and olfactory evidence to determine which horizons may be impacted. The PID will be calibrated daily using fresh air and span gas calibration points. Isobutylene span gas at a concentration of 100 parts per million (ppm) will be used in the calibration procedure. Discrete soil samples will be collected from any petroleum impacted horizons encountered in the borings. If no impacts to soils are identified during screening activities, no soil sampling will be conducted.

Soil samples will be collected using WCEC standard sampling procedures, and in accordance with the MTDEQ requirements. Soil samples will be packed on ice and submitted under chain of custody to Pace Analytical Services, Inc. (Pace) in Billings, Montana. Requested analyses will include VPH using the Massachusetts Method, as required by the MTDEQ in the *Montana Tier 1 Risk-Based Corrective Action Guidance for Petroleum Releases* [MTDEQ, 2016].

Cuttings from the monitoring well borings will be screened for hydrocarbon presence. Any soils exhibiting petroleum odor or staining will be segregated and containerized in 55-gallon steel drums pending disposal profiling. Impacted soil will be delivered to the Republic Services Missoula Landfill for disposal.

2.3 Monitoring Well Construction

The monitoring well boring will be advanced using 6.5-inch diameter hollow-stem auger tooling to a target depth range of 40 to 50 feet bgs, depending on site-specific lithology and saturated intervals encountered in the borings. Well construction will consist of 2-inch Sch. 40 PVC riser and 0.010 slot PVC screen. The monitoring well will be completed with 15 feet of screen and a solid riser extending from the top of the screen to near ground surface. The well annulus will be filled with 10/20 silica sandpack from the bottom of the boring to 2 feet above the screened interval, with the remainder of the boring annulus consisting of a bentonite seal. Surface completion will be constructed of a flushmount, 8.5-inch diameter steel monuments set in concrete and equipped with locking well caps.

Additional Corrective Action Work Plan 2019

Holiday Stationstore 283

Missoula, MT

The horizontal location and top of casing elevation of the monitoring well will be surveyed according to MTDEQ requirements. WCEC will obtain horizontal coordinates for the monitoring wells using a Trimble Geo7X centimeter-grade GPS referenced to a temporary control point set in Montana State Plane coordinates, NAD 83 horizontal datum. A survey of the vertical well casing elevation will be completed to Fourth Order accuracy using an auto-level transit with a measurement precision of 0.01 feet. Vertical elevation will be referenced to a temporary GPS-derived benchmark in the NAVD 88 vertical datum.

2.4 Groundwater Monitoring

WCEC personnel will develop the monitoring well using the surge and pump technique with an electric downhole pump capable of purging 3.5 gallons per minute (gpm) at a depth of 20 feet bgs. Groundwater sampling of the newly installed monitoring well will be performed following installation, development, and stabilization (at least one week after development). A depth to water measurement will be recorded during the groundwater monitoring event.

Well sampling will be conducted according to WCEC standard sampling procedures using a low flow bladder pump for purging and sample collection. Groundwater quality parameter data (conductivity, pH, salinity, dissolved oxygen, temperature, and ORP) will be acquired from the wells during purging using a multi-parameter water quality instrument equipped with a flow-through cell. Groundwater quality parameter, purge, and stabilization data for each well are recorded in the field using WCEC's Well Sampling Form. Groundwater sample collection will be completed following stabilization of groundwater quality parameters.

Following purging, groundwater samples will be preserved with hydrochloric acid, placed on ice, and delivered under chain of custody to Pace Analytical Services, Inc. (Pace) in Billings, Montana. Pace will be instructed to analyze the groundwater samples for VPH constituents, according to MTDEQ requirements [MTDEQ, 2016].

3.0 Report Preparation

Following the completion of the additional corrective actions discussed in Sections 2.1 through 2.4 of this work plan, WCEC will transmit all soil boring logs and laboratory analytical data to DEQ for discussion regarding potential data gaps. Any agreed-upon work plan modifications will be submitted in writing to MTDEQ as required to meet work plan objectives. Following completion of all work plan scope items, WCEC will prepare and submit an Initial Remedial Investigation Report (Report_RIR-01). The report will detail and summarize all data and findings as outlined in Section 2.1 and include a full discussion of the data collected during completion of the included scope of work. The report will be submitted within 60 days of receipt and validation of the laboratory analytical results from the final groundwater monitoring event included in the work plan scope.

4.0 Time Line & Costs

The attached *Estimated Costs – Monitoring Well Installation, & Groundwater Monitoring* spreadsheet details anticipated project costs to complete the scope of work. Subcontractor costs are included as appropriate. The scope of work outlined in this work plan is scheduled to occur in late summer 2019, pending approval from the MTDEQ.

5.0 References

Montana Department of Environmental Quality. (MTDEQ, 2016). *Montana Risk-Based Corrective Action Guidance for Petroleum Releases*. September 2016.

Montana Groundwater Information Center. (GWIC, 2018). Montana Bureau of Mines and Geology. Groundwater Information Center. <http://mbmgwic.mtech.edu/>

List of Maps

Figure 1: Site Details Map

Holiday Stationstore 283



FIGURE 1: Site Details Map

Holiday Stationstore 283
2325 S Reserve Street
Missoula, MT 59801

DATE: 06/21/19

SCALE: N/A

PROJECT NO: 19-12369-70

WCEC
ENVIRONMENTAL CONSULTANTS

Appendix A – Estimated Cost Sheet & Subcontractor Bids

Estimated Costs

Monitoring Well Installation & Groundwater Monitoring

Holiday Stationstore 283, Missoula, MT

Facility ID# 32-09694: Release# 5320, Work Plan# 33866

06.21.2019

TASK	Unit Cost	Units	Unit ID	Total Cost
Project Management				
A01016 Senior Project Manager	\$145.00	16	hrs	\$2,320.00
			Sub Total	\$2,320.00
Work Plan Preparation				
Work Plan Preparation (CAP_AC-03)	\$965.00	1	LS	\$965.00
			Sub Total	\$965.00
Mobilization - Well Installation, Development, Mapping, Surveying				
Vehicle Mileage	\$0.595	5	miles	\$2.98
A01015 Mobilization - Project Scientist	\$130.00	0.5	hrs	\$65.00
A01050 Mobilization - Tech III	\$90.00	0.5	hrs	\$45.00
A01014 Premobilization (Staff Geologist)	\$110.00	1	hrs	\$110.00
			Sub Total	\$222.98
Mobilization - Groundwater Monitoring				
Vehicle Mileage	\$0.595	5	miles	\$2.98
A01014 Mobilization - Staff Geologist	\$110.00	0.5	hrs	\$55.00
A01014 Premobilization (Staff Geologist)	\$110.00	1	hrs	\$110.00
			Sub Total	\$167.98
Professional Labor - Well Installation & Development				
A01015 Project Scientist	\$130.00	10	hrs	\$1,300.00
A01050 Tech III	\$90.00	10	hrs	\$900.00
			Sub Total	\$2,200.00
Professional Labor - Site Mapping & Surveying				
A01015 Project Scientist	\$130.00	2	hrs	\$260.00
A01016 Professional Engineer - Survey Review	\$145.00	2	hrs	\$290.00
A01050 Tech III	\$90.00	2	hrs	\$180.00
			Sub Total	\$730.00
Professional Labor - Monitoring Well Sampling				
Well Sampling	\$186.00	1	wells	\$186.00
			Sub Total	\$186.00
Drilling Subcontractor - Boland Drilling ⁽¹⁾				
Boland Drilling - Soil Boring & Monitoring Well Installation	\$3,921.00	1.07	LS	\$4,195.47
			Sub Total	\$4,195.47
Petroleum-Impacted Soil & Water Disposal				
A01015 Project Scientist - Disposal Profiling	\$130.00	3	hrs	\$390.00
55-Gallon Steel Drums	\$75.00	8	each	\$600.00
A010150 Tech III - IDW Hauling & Disposal (Soil and groundwater)	\$90.00	6	hrs	\$540.00
IDW Disposal - Groundwater (Per gallon)	\$3.00	100	gal	\$300.00
Soil Disposal - Republic Services Missoula Landfill (minimum)	\$175.00	1	each	\$175.00
			Sub Total	\$2,005.00
Materials, Tools, Equipment - Monitoring Well Installation & Development				
M00300 PID	\$99.00	1	days	\$99.00
S03100 Sample Gloves	\$1.00	8	pairs	\$8.00
P00500 Pump - Redi-Flow	\$115.80	1	days	\$115.80
S03650 Tubing - Polyethylene	\$1.00	60	feet	\$60.00
S01200 Padlocks	\$20.00	1	each	\$20.00
Deionized Water	\$1.50	10	gallons	\$15.00
			Sub Total	\$317.80

Materials, Tools, Equipment - Mapping & Survey

E02100	Survey Equipment	\$132.00	1	days	\$132.00
E02350	GPS - Trimble RTK	\$231.00	1	days	\$231.00
M01025	Magnetometer	\$39.20	1	days	\$39.20
Sub Total					\$402.20

Analytical Costs**Soil Boring Sampling**

VPH	\$125.00	2	samples	\$250.00
Disposal Analytical (VPH/EPH/RCRA Metals)	\$450.00	1	samples	\$450.00

Groundwater Monitoring

VPH	\$125.00	1	samples	\$125.00
Disposal Analytical (VPH)	\$125.00	1	samples	\$125.00

Sample Handling Fees	\$10.00	5	samples	\$50.00
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Sub Total **\$1,000.00**

Data Validation

A01016	Senior Project Manager	\$145.00	3	hrs	\$435.00
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Sub Total **\$435.00**

Report Preparation

RIR-01	Initial Remedial Investigation Report	\$3,175.00	1	each	\$3,175.00
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Sub Total **\$3,175.00**

Per Diem

Per Diem (Food)	\$23.00	0	days	\$0.00
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Lodging	\$130.00	0	nights	\$0.00
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Sub Total **\$0.00**

(1) Includes PTRCB allowed 7% markup

Total Estimated Cost **\$18,322.42**

Petroleum Tank Release Compensation Board

Soil Boring/Monitoring Well Installation Unit Cost Worksheet

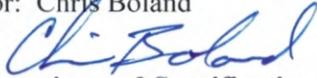
Contractor Information

Company Name: Boland Drilling

Address: 4701 N Star Blvd

City, State, Zip: Great Falls, MT 59405

Cost Estimator: Chris Boland

Signature: 

Phone: 406-761-1063

6/19/2019

Project Information and Specifications

Holiday Station

Reserve Street and South Avenue W

Missoula

Facility ID #

Release #

WP ID #

Type of Drilling Equipment

Hollow-Stem Augers

Air Rotary

Direct Push

Other (please specify)

Monitoring Well Specifications

Number of Wells

Surface: Concrete Asphalt Barren

Depth (per well)

Estimated Depth to Groundwater (ft)

Boring Diameter (inches)

Casing Diameter and type (inches)

Surface Completion: Flush Mount Aboveground

Soil Boring

Number of Borings

Boring Diameter (inches)

Depth (per boring - ft)

Surface: Concrete Asphalt Barren

Soil Disposal: Onsite Stockpile Drums

Abandonment: Bentonite Soil Cuttings

Soil Sampling

Continuous Soil Sampling

Interval Soil Sampling (specify interval)

No Sampling

Cost Estimate Explanation:

- Mobilization/Demobilization: Includes all costs and mileage to transport equipment, materials, and personnel to and from the site location. More than one mobilization event of either the drilling rig or support vehicle will require justification and pre-approval by the DEQ-PRS and Board staffs. This item should be estimated on a per mile unit rate
- Soil Boring Installation: Includes all costs (labor, equipment, and materials) to drill, collect soil samples and abandon soil borings, as well as decontaminate equipment. Drilling costs should be estimated using a per foot unit rate. Unit cost should include handling of contaminated soil by stockpiling or placing in drums. Assume level "C" personal protective equipment.
- Monitoring Well Installation: Includes all costs (labor, equipment, and materials) to drill, collect soil samples, and complete monitoring well to specifications and according to Montana Well Drillers Board rules, as well as decontaminate equipment. Drilling costs should be estimated using a per foot unit rate. Unit cost should include handling of contaminated soil by stockpiling or placing in drums. Assume level "C" personal protective equipment.
- Drilling Standby: Drilling standby should be estimated on an hourly basis. Prior approval and justification for accumulating standby time is needed prior to billing.
- Well Development: Includes all costs (labor, equipment, and materials) to develop monitoring wells. This task should be estimated using a per well unit rate.
- Monitoring Well Abandonment: Includes all costs (labor, equipment, and materials) to properly abandon a well location according to the Montana Well Drillers Board rules. Abandonment costs should be estimated using a per well unit rate.

Soil Boring/Monitoring Well Installation Unit Cost Worksheet

TASK		UNIT COST	NUMBER OF UNITS	TOTAL COST
Mobilization/Demobilization (1)				
Mobilization/Demobilization: Drilling Rig	\$	2.00 /mile	350	\$ 700.00
Mobilization/Demobilization: Support Vehicle	\$	1.50 /mile	350	\$ 525.00
Soil Boring Installation (2)				
Drilling (0'-50' range per boring)	\$	30.00 /foot	40	\$ 1,200.00
Drilling (50'-100' range per boring)		/foot		\$ -
Other (please specify) _____				\$ -
Monitoring Well Installation (3)				
Drilling (0'-50' range per well)	\$	30.00 /foot	40	\$ 1,200.00
Drilling (50'-100' range per well)		/foot		\$ -
Other (please specify) _____				\$ -
Drilling Standby (4)				
-prior approval needed	\$	125.00 /hour		\$ -
Well Development (5)				
Well Development	\$	150.00 /hour		\$ -
Monitoring Well Abandonment (6)				
Abandonment	\$	350.00 /well		\$ -
Lodging may only be paid at actual costs when documented by receipts.				
Per Diem				
Lodging: number of individuals =	2	\$ 125.00 /person per day	1	\$ 250.00
Food: number of individuals =	2	\$ 23.00 /person per day	1	\$ 46.00
(Breakfast 5.00, Lunch 6.00, Dinner 12.00)				
TOTAL PROJECT EXPENSE				\$ 3,921.00

D.O.T. Drums

\$95.00

Additional Conditions/Comments/Costs:

Drill 1 soil borings to 40' and construct 1 monitor well to 40' at Holiday Station on Reserve Street and South Avenue in Missoula.

If you require assistance, call 406-841-5090.

Submit completed form to:

Petroleum Tank Release Compensation Board PO Box 200902, Helena MT 59620-0902

HAZTECH Drilling, Inc.



P.O. Box 30622
 2910 Hannon Road, Suite #6
 Billings, MT 59107
 Phone: 406-896-1164 or 800-359-1502
 Fax: 406-896-1462

Proposal

TO: West Central Environmental Consultants
 ATTN: Jim Rolle
 1030 South Ave. West
 Missoula, MT 59801
 Ph-406-549-8487

DATE: 6/15/2019

PROJECT: Holiday Station
 Missoula, MT

Description:

1-2" well to 40' with 15' of .010 screen and a flush mount cover.

P.O.# :
 TERMS: Net 30 Days

	UNITS	UNIT	AMOUNT
	EST.	PRICE	EST.
	*****	*****	*****
Mob/ Demob, Per Mile	680	\$3.25	\$2,210.00
Support Equipment, Per Day	3	\$150.00	\$450.00
Per diem, Per Crew Day	3	\$46.00	\$138.00
Lodging, Per Crew Day (Estimated)	2	\$250.00	\$500.00
Auger Drilling, Per Ft	40	\$22.00	\$880.00
Well Installation, Per Ft	40	\$28.25	\$1,130.00
Flush Mount Covers, Each	1	\$100.00	\$100.00

	ESTIMATED TOTAL:		\$5,408.00

Notes:

- 1) Mobilization costs may be less if done in conjunction with other jobs in the area.
- 2) Client is responsible to clear location of utilities.
- 3) Client is responsible for disposal of drill cuttings.
- 4) Client will be invoiced only the amounts used.
- 5) We assume that site is accessible by truck mount drill rig.

Proposal By: Paul Bray