



## Meridian Environmental Consulting, LLC

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May 13, 2018

Carrie Stoltz  
Wisconsin Department of Natural Resources  
107 Sutliff Avenue  
Rhineland, Wisconsin 54501

Subject: **Change Order:**

- **Soil Vapor Extraction System Maintenance (June – December 2018)**
- **Progress Report (January 2019)**

Site(s):

Autostop (former)  
119 W. 9<sup>th</sup> Street North  
Ladysmith, Wisconsin 54848  
BRRS No. 03-55-282548  
PECFA No. 54848-1295-19  
Meridian No. 05F630

Doug's Tire (former)  
811 Lake Ave W.  
Ladysmith, Wisconsin 54848  
BRRS No. 03-55-000408  
PECFA No. 54848-1215-11  
Meridian No. 05F786

Dear Carrie:

This Change Order follows our meeting April 4, 2018 in Ladysmith. At that meeting, we reviewed the SVE system operation and the path to Closure. Based on that meeting, we are proposing this Work Plan for the next 8 months (June 2018 to January 2019).

Please refer to our Progress Report dated March 27, 2018 for background information. A diagram of the site is included for reference.

We recommend system operation continue for the remainder of the year in the following manner:

- Monthly System Operation and Maintenance

Perform normal system maintenance including removing condensation water from vents and knockout tank, measuring system parameters including vacuum, flow rate, hour meter. Check system operation for any maintenance issues.

- Air Sampling

Collect air samples from the system discharge monthly. This will include air samples from each site (i.e., Autostop, Doug's). That is, we will sample the SVE system discharge with the vents at Doug's open while the vents at Autostop are closed, and vice versa. A third sample will be with vents open at both sites.

The air samples will be analyzed for Benzene and Gasoline by TestAmerica. A charcoal tube is connected to the air discharge with a small plastic tube and an air sample collected using an air pump calibrated and provided by the lab.

- Maximize contaminant removal and field measurements (quarterly)

The objective of the SVE system operation is to maximize contaminant removal based upon identifying which extraction vents contain and/or produce the highest concentration of VOCs.

To accomplish this, we will conduct an initial assessment of each extraction vent in June. The Project Engineer will be onsite to assist with this effort.

- Measure water levels/LNAPL thicknesses in SVE vents (R1 thru R5, E2, E4, E5, M1) and selected monitoring wells (MW-100, MW-200, MW-400, MW-800, MW-5, W-6, W-7).
- Measure discharge parameters (i.e., flow rate, PID readings, vacuum) from each SVE vent. The purpose of this task is to determine which vents still have volatile vapors and relative concentrations

A similar effort will be conducted each quarter (i.e., September and October). The Project Engineer may not be needed for subsequent field measurements.

- "Pulsing" the system

The SVE system will be "pulsed" by alternating discharge from each site. That is, flow will be obtained from Doug's for one month while the Autostop vents are closed. Pulsing will be contingent upon the field PID measurements and air sample results.

- Reporting

An annual report will be prepared in January 2019 summarizing the system operation, air sampling, and our recommendations to achieve Closure with GIS Registry for Soil and Ground Water.

At this time, we anticipate the SVE system operation will be nearing the end of its effective operation and may be shut down in December. However, this will be contingent upon the system performance.

Soil Vapor Extraction System Operation: June – December 2018  
Doug's and Autostop - Ladysmith  
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### **COST**

Our estimate of the costs for this work is included with this letter.

Sincerely,  
**MERIDIAN ENVIRONMENTAL CONSULTING, LLC**



Kenneth Shimko, PG  
Project Manager

## **Stoltz, Carrie R - DNR**

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**From:** Ken Shimko <kshimko.meridianenv@gmail.com>  
**Sent:** Monday, May 14, 2018 11:05 AM  
**To:** Stoltz, Carrie R - DNR  
**Subject:** FW: Autostop & Doug's Change Order  
**Attachments:** Change Order June '18 - Jan'19.pdf

Carrie.

Per our phone call, please add \$240 for cell phone alarm for SVE system.

Thanks

Kenneth Shimko, PG  
Meridian Environmental Consulting, LLC  
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Fall Creek, Wisconsin 54742  
(715)832-6608 (office)  
(715)579-0723 (cell)  
(715)832-6797 (Fax)  
Email: kshimko.meridianenv@gmail.com

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**From:** Ken Shimko [mailto:kshimko.meridianenv@gmail.com]  
**Sent:** Monday, May 14, 2018 7:54 AM  
**To:** Stoltz, Carrie R - DNR <Carrie.Stoltz@wisconsin.gov>  
**Subject:** Autostop & Doug's Change Order

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# **SVE System Operation and Maintenance Costs: June 2018 - January 2019**

AutoStop and Doug's Tire Combined System O&M  
Ladysmith, Wisconsin  
Meridian Nos. 05F630/786

## **Tasks:**

- monthly site visits (system maintenance/air sampling)(7 months: June - December 2018)
- measure LNAPL/water levels quarterly (June, September, December) in SVE vents (R1 thru R5, E2, E4, E5, M-1) and MW wells ( MW-100, MW-700, MW-800, MW-5)
- project management/data evaluation
- Progress report with recommendations (due January 2019)

Task	Units	#Units	Cost/Unit	Cost	Subtotal:	Cost Sharing		Check
						Doug's	Autostop	
<b>Monthly Site Maintenance/Sampling (June - December, 2018)</b>						3/8	5/8	
Per Trip								
Labor and mileage								
Prep/deprep	hr	1	\$91.39	\$91.39				
air sample/system maintenance	hr	4	\$91.39	\$365.56				
travel to/from	hr	3	\$91.39	\$274.17				
mileage	mi	150	<del>\$0.53</del>	<del>\$79.50</del>	<b>\$1.75</b>			
Monthly Subtotal:				<del>\$810.62</del>	<b>\$12.87</b>			
7 monthly trips + 1 contingency				<del>\$5,674.34</del>	<b>\$5,674.34</b>	<del>\$2,127.88</del>	<del>\$3,546.46</del>	<del>\$5,674.34</del>
					<b>6502.96</b>	<b>2478.61</b>	<b>4064.35</b>	<b>6502.96</b>
<b>Quarterly water/LNAPL measurements (June, September, December)</b>								
<b>Initial Event (June) with PE onsite (combine with monthly visit)</b>								
Professional Engineer								
Travel to/from	hr	6	\$109.67	\$658.02				
Onsite	hr	4	\$109.67	\$438.68				
Field Person	hr	4	\$91.39	\$365.56				
<b>Subsequent Events (September, December)(combine with monthly site maintenance visit)</b>								
Field Person	hr	8	\$91.39	\$731.12				
Interface Probe	event	3	\$40.00	\$120.00				
3 events (June, Sep, Dec) - Subtotal:				\$2,313.38	\$2,313.38	\$867.52	\$1,445.86	\$2,313.38
<b>Miscellaneous Materials (PVC piping, valve repair, minor system components, etc.)</b>				\$250.00	\$250.00	\$93.75	\$156.25	\$250.00
<b>Electricity (estimate \$300/month (varies seasonally))</b>	month	7	\$300.00	\$2,100.00	\$2,100.00	\$787.50	\$1,312.50	\$2,100.00
<b>Air Sampling (air sample)(3 per month x 7 months = 21 samples)</b>								
Benzene (U&C A1 - see below)								
GRO (U&C A3 - see below)								
air pump rental (variance)(monthly)	event	7	\$60.00	\$420.00				
					\$420.00	\$157.50	\$262.50	\$420.00
<b>Data Evaluation (Engineer)(5 hrs per month x 7 mos.)</b>	Engineer	35	\$109.67	\$3,838.45	\$3,838.45	\$1,439.42	\$2,399.03	\$3,838.45
<b>Project Mgmt (4 hrs per month x 7 mos.)</b>	PM	28	\$109.67	\$3,070.76	\$3,070.76	\$1,151.54	\$1,919.23	\$3,070.76
<b>Progress Report (PG/PE)</b>	hr	24	\$109.67	\$2,632.08	\$2,632.08	\$987.03	\$1,645.05	\$2,632.08
<b>Total:</b>					<b>\$20,299.01</b>	<b>\$7,612.13</b>	<b>\$12,686.88</b>	<b>\$20,299.01</b>

## **U&C**

Waste Disposal (WD10) (assume 1 drum/month)	drum	7	\$42.11	\$294.77				
Air Sample - Benzene (A1)	sample	21	\$44.94	\$943.74				
Air Sample - GRO (A3)	sample	21	\$46.10	\$968.10				
Change Order	each	1	\$381.78	\$381.78				
					<b>\$2,588.39</b>	<b>\$970.65</b>	<b>\$1,617.74</b>	<b>\$2,588.39</b>

<b>Grand Total</b>	<del>\$22,887.40</del>	<del>\$8,582.78</del>	<del>\$14,304.63</del>	<del>\$22,887.40</del>
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*U&C (addition) Included*

*SVE cell phone alarm \$240.00*

*Dougs (3/8) \* 90.00*

*Auto stop (5/8) \* 150.00*

*\$21,367.64*

*Dougs (3/8) \$ 8012.87*

*auto stop (5/8) \$ 13,354.78*

