



May 21, 2019

Phil Richard
Wisconsin Dept. of Natural Resources
875 S 4th Avenue
Park Falls, WI 54552-1130

submitted by email: Philip.Richard@Wisconsin.gov

RE: Change Order #10 – Direct Push Groundwater Sampling
For: The Laundry Basket, 300 S. Main Street, Luck, WI
WDNR BRRTS No. 02-49-544893

Dear Mr. Richard:

Based on the recommendations included in the MSA Status Report – Groundwater Sampling, Sub-Slab Vapor Sampling report submitted to the Wisconsin Department of Natural Resources on February 8, 2019, additional delineation of the solvent plume is necessary to the west and south of the MW-16 monitoring well nest. Considering the uncertainty regarding the vertical and horizontal extent of the plume, MSA is proposing a direct push discrete groundwater sampling event to coincide with the last groundwater sampling event described in the February 26, 2018 Change Order #8 request, approved by the WDNR in a letter dated March 15, 2018 in order to determine the vertical and horizontal extent and magnitude of the plume.

In order to delineate the extent of the plume to the west and south of the monitoring well MW-16 nest, MSA is proposing the completion of discrete, direct push groundwater sampling at four locations; two borings will be advanced in the property at the northwest corner of the intersection of West 3rd Avenue and Duncan Street behind the building onsite and near State Highway 35, one boring will be advanced in the property to the southwest corner of the intersection of West 3rd Avenue and Duncan Street and the other boring will be advanced in the City of Luck property across West 3rd Avenue to the south of the MW-16 monitoring well nest. Access agreements for each location will be obtained prior to drilling and a private utility locate will be conducted at each location prior to the advancement of any borings. At each location, a discrete groundwater sample will be collected from a shallow interval (approximately 5-10 feet below land surface (bls)), a middle interval (approximately 25-30 feet bls) and a deep interval (approximately 45-50 feet bls). Each boring will be advanced separately, drilling tooling will be decontaminated between each boring and borings will be abandoned according to Wisconsin Administrative Code. Groundwater samples collected from each discrete interval will be analyzed for volatile organic compounds (VOCs) using EPA Method 8260.

In addition to the delineation to the west and south of the MW-16 monitoring well nest, MSA proposes additional vertical delineation of the plume near several of the existing monitoring wells and monitoring well nests. Discrete groundwater samples will be collected

1230 South Boulevard
Baraboo, WI 53913

P (608) 356-2771
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Mr. Phil Richard, Wisconsin Department of Natural Resources
May 21, 2019

from the middle and deep intervals adjacent to monitoring wells MW-12 and MW-14. In addition, discrete groundwater samples from the deep interval will be collected adjacent to the MW-13, MW-15 and MW-16 monitoring well nests. Groundwater samples collected from each discrete interval will be analyzed for volatile organic compounds (VOCs) using EPA Method 8260. The results from this sampling will be combined with results from the monitoring well groundwater sampling and presented in a letter report to the WDNR including updated tables and figures.

Cost Estimate for Change Order #10

The attached DERF Site Investigation Bid Sheets include the costs to complete the above described activities and totals \$7,360.00 consultant, \$5,210.00 contractor costs (drilling), \$1,520.00 contractor costs (laboratory), which totals \$14,090.00. These costs assume the sampling will be conducted in conjunction with the already approved May/June 2019 quarterly groundwater sampling round.

The following presents a summary of the budget information for this project:

	<u>Consulting</u>	<u>Contractor</u>	<u>Budget</u>	<u>Total Budget</u>
Initial Budget, April 26, 2011	\$54,900.00	\$41,400.00	\$96,300.00	\$96,300.00
Change Order #1, August 31, 2011	\$390.00	\$700.00	\$1,090.00	\$97,390.00
Change Order #2, January 31, 2013	\$10,113.00	\$6,900.00	\$17,013.00	\$114,403.00
Change Order #3, January 16, 2014	\$12,012.00	\$6,208.00	\$18,220.00	\$132,623.00
Change Order #4, February 4, 2015	\$3,185.00	\$4,265.00	\$7,450.00	\$140,073.00
Change Order #5, March 1, 2016	\$15,105.00	--	\$15,105.00	\$155,178.00
Change Order #6, January 23, 2017	\$18,190.00	\$7,125.00	\$25,315.00	\$180,493.00
Change Order #7, August 30, 2017	\$5,810.00	\$2,984.00	\$8,794.00	\$189,287.00
Change Order #8, February 26, 2018	\$17,780.00	\$14,040.00	\$31,820.00	\$221,107.00
Change Order #9, November 1, 2018	\$2,060.00	\$474.00	\$2,534.00	\$223,641.00
Change Order #10, May 17, 2019	\$7,360.00	\$6,780.00	\$14,090.00	\$237,731.00

Please contact me with questions.

Sincerely,

MSA Professional Services, Inc.



Mark Davidson
Sr. Project Hydrogeologist

Cc: Lois Baldwin, Luck, WI
Debra Sylvester (via email)
Erica Klingfus, MSA (via email)

Enclosures: Drilling Bids
Proposed Drilling Location Figure

DERF Site Investigation Bid Summary Consultant Selection Cover Sheet

Notice: Use this form to notify the Department of Natural Resources of the consultant you are selecting to conduct a site investigation and to submit and summarize the bids required in the Dry Cleaner Environmental Response Fund (DERF) Program. This form is authorized under s. 292.65, Wis. Stats. and s. NR 169.23, Wis. Adm. Code. Completion of this form is mandatory for any person applying for DERF reimbursement. Persons who do not submit a completed form will not be eligible for reimbursement under DERF. Personal information will be used to manage the DERF program, and be made available to requesters under Wisconsin's Open Records laws (ss. 19.32-19.39, Wis. Stats.) and requirements.

Complete the following information and submit it to your DNR regional project manager. Copy this form as necessary.

Site Information		
Site name: The Laundry Basket	Facility Name: The Laundry Basket	BRRTS # 02-49-544893

Consultant Selected	
Consultant Name: MSA Professional Services	Consultant Address: 1230 South Boulevard, Baraboo, WI 53913

Summary of Costs:			
Consultant Name: MSA Professional Services		Consultant Name:	
Consulting costs:	\$7,360.00	Consulting costs:	
Drilling costs:	\$5,210.00	Drilling costs:	
Analytical costs:	\$1,520.00	Analytical costs:	
Miscellaneous costs:	\$0.00	Miscellaneous costs:	
Total Costs:	\$14,090.00	Total Costs:	

Consultant Name:	
Consulting costs:	
Drilling costs:	
Analytical costs:	
Miscellaneous costs:	
Total Costs:	

Optional 4th bid information:	
Consultant Name:	
Consulting costs:	
Drilling costs:	
Analytical costs:	
Miscellaneous costs:	
Total Costs:	

Justification for Selection:

Change Order #10 to conduct discrete groundwater sampling to delineate horizontal and vertical extent of plume

Applicant Information and Certification

I certify that the information contained above is true and correct to the best of my knowledge.

Applicant Name		Date	
517 S. Fourth Street	Luck	WI	54853-9045

Signature

Department Use Only		
Project Manager Approval Signature	Phone Number	Date

If not approved, reason for non-approval:

**DERF Site Investigation Bid Sheet
Consultant Bid Summary**

Form 4400-233 (R 4/04) Page 2 of 6

Site Information	
Site Name	The Laundry Basket, Luck WI
Consultant Name	MSA Professional Serivces
Applicant Name	Lois and Ardell Baldwi

Bid Summary	
Drilling Costs Total =	\$ 5,210.00
Analytical Costs Total =	\$ 1,520.00
Consulting Costs Total =	\$ 7,360.00
Misc Costs Total =	\$ -
Grand Total =	\$ 14,090.00

I certify that the costs are an accurate estimate of my total projected costs for the site investigation and I understand and will adhere to s.292.65 Stats. and ch NR 169, Wis. Adm. Code.

Consultant Signature

17-May-19



Please attach to these forms a written narrative specifying how the tasks outlined in these sheets will be performed.

Consultant Name:
 Site Name:
 BRRTS #:
 Date:

DERF Site Investigation Bid Sheet Drilling Costs

Form 4400-233 (R 4/04) Page 3 of 6

Drilling Costs						
Task	Interval	Number of Borings or Wells	Number of Days	Total Number of Feet	Cost/feet, Day or Well	Total Cost
Well installation and Completion						
2 inch PVC	_1_ ft to _20_ ft					
1 inch PVC (GeoProbe)	__ ft to __ ft					\$ -
	__ ft to __ ft					\$ -
	> __ ft					\$ -
Decontamination Costs						
Mobilization Costs						
Hollow Stem Auger Drilling 2.25 ID						
2 1/4 Augers	0 to 40 ft					\$ -
	40 to 80 ft					\$ -
Bore Abandonment	per ft					\$ -
						\$ -
Decontamination Costs						
Mobilization / per diem Costs						
Hollow Stem Auger Drilling 4.25 ID						
4 1/4 Augers	0 to 40 ft					
	40 to 80 ft					\$ -
Bore Abandonment	per ft					\$ -
						\$ -
Decontamination Costs						
Mobilization						
Direct Push Borings (per point)						
Unit and Operator	< 30 ft depth					\$ 3,400.00
Abandonment	per foot					\$ -
Concrete Core/Patch	each					\$ -
Soil Gas Subcontractor						
Mobilization Costs						
Well Development (if done by subcontractor)						
	Monitoring Wells					
	Piezometers					
	Recovery Wells					
Other						
Drums for soil/water						\$ -
Private Locate						\$ 750.00
Per Diem						\$ 160.00
Steel Bumper Posts						\$ -
Traffic Control						
Total Drilling Costs						\$ 5,210.00

See attached bid tabulation for detailed drilling costs.

Consultant Name:
 Site Name:
 BRRTS #:
 Date:

DERF Site Investigation Bid Sheet
Analytical Costs

Form 4400-233 (R 4/04) Page 4 of 6

Parameter	WI Certified Lab			Field Test/Field Kit			Mobile Lab			Total Costs
	\$/sample	# samples	Method Used	\$/sample	# samples	Method Used	\$/Sample \$/Day	# Samples # Days	Method Used	
Solids Analysis										
VOCs										\$0.00
TCLP										\$0.00
RCRA Metals										\$0.00
Duplicate Analyses										\$0.00
Blank Analyses										\$0.00
Other: (Specify)										\$0.00
Water Analysis										
VOCs	\$ 70	19	8260							\$1,330.00
Nitrate*	\$ 13		4500							\$0.00
Dissolved Oxygen*										\$0.00
Temperature*										\$0.00
Ferrous Iron*	\$ 10		6010							\$0.00
Sulfate*	\$ 11		D516							\$0.00
Sulfide*										\$0.00
ORP*										\$0.00
pH*										\$0.00
TOC*										\$0.00
Alkalinity*										\$0.00
Chloride*										\$0.00
Spec. Conductance*										\$0.00
Ethene/Ethane/Methane*	\$50		RSK1							\$0.00
Hydrogen*										\$0.00
Carbon Dioxide*										\$0.00
RCRA Metals										\$0.00
Duplicate Analyses	\$60	2	8260							\$120.00
Blank Analyses	\$ 70	1	8260							\$70.00
Other: DOC	\$60									\$0.00
Air Analysis										
VOCs										\$0.00
TCE										\$0.00
PCE (minimum detection limit is <10 ppbv)										\$0.00
Other: (Specify)										\$0.00
TO-15	\$ 237	0	TO-15							\$0.00
Waste Analyses (soil/water)										
TCLP Ext + VOC Analysis										\$0.00
Miscellaneous										
										\$0.00
										\$0.00
Charge for Mobile Lab (indicate # days and daily fee)										
Total Analytical Costs										\$1,520.00

* Natural Attenuation parameters required for consideration of NA as remedy.

Consultant Name:
 Site Name:
 BRRTS #:
 Date:

DERF Site Investigation Bid Summary
Consultant Costs

Form 4400-233 (R 4/04) Page 5 of 6

Position (specify)	Hourly Rate	Hours/Task															Total Costs			
		Workplan Development	Offsite Access	Town Of Luck Access Requests	Well Agreement with St. Croix Hardwoods	Drilling Oversight	Well elevation survey	Drilling sampling	Well Development	Hydraulic Conductivity Test	Groundwater sampling	Soil gas/vapor intrusion sampling	SSRCL calculations (contained out or remedial actions)	SI Report preparation	Letter Reports	Project Management		Other (specify)		
																		Site Recon for Sub-Slab Locations, Report		
Professional Staff																				
Project Manager	\$ 130		6												4	6				\$2,080.00
Senior Hydro/Eng/Sci	\$ 90			4											12					\$1,440.00
Project Hydro/Eng/Sci	\$ 80																			\$0.00
Staff Hydro/Eng/Sci	\$ 70														18					\$1,260.00
																				\$0.00
Field Staff																				
Senior Hydro/Eng/Sci	\$ 90					28														\$2,520.00
Project Hydro/Eng/Sci	\$ 80																			\$0.00
Staff Hydro/Eng/Sci	\$ 70																			\$0.00
Env. Specialist	\$ 60																			\$0.00
Tech Support	\$ 60																			\$0.00
Clerical	\$ 50																			\$0.00
Survey Staff	\$ 90																			\$0.00
Office Support Staff																				
Tech Support	\$ 60														1					\$60.00
Clerical	\$ 50																			\$0.00
																				\$0.00
																				\$0.00
																				\$0.00
Total Consulting Costs		\$ -	\$ 780	\$ 360	\$ -	\$ 2,520	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,920	\$ 780	\$ -	\$ -	\$ -	\$7,360.00

RANGE ENVIRONMENTAL DRILLING

TODD J. KNUCKEY, OWNER
 CELL# (218) 966-6054
 FAX# (218) 263-8159
 2114 2ND AVENUE EAST
 HIBBING, MN 55746

PROJECT NAME: Luck Ground Water Profiling
 COMPANY NAME: MSA Professional Services
 COMPANY ADDRESS: 301 West First Street, Suite 408
 Duluth, MN 55802
 CONTACT NAME: Mark Davidson
 CONTACT PHONE: (218) 722-3915
 CONTACT FAX: (218) 722-4548

DRILLING SERVICES	UNIT COST	UNITS	TOTAL
-Geoprobe Rental	\$105.00	16	\$1,680.00
-Geoprobe Operator	\$95.00	16	\$1,520.00
-Mobilization	\$900.00	1	\$900.00
-Misc. Expendable Supplies	\$200.00	1	\$200.00
-Per Diem	\$160.00	1	\$160.00
-Private Locate	\$750.00	1	\$750.00
			<u>\$5,210.00</u>

The above cost estimate is based on the following scope of work provided by the Consultant. Range Environmental Drilling will provide labor and materials for:

Nine groundwater profiling locations; 4-10 ft, 6-30 ft and 9-50 ft.

Diggers Hotline will be used to notify public utilities.
 Property owner is responsible for the location of private utilities.


 VICKI A. KNUCKEY
 PROJECT MANAGER

5.10.19
 DATE



MIDWESTERN DRILLING
 1260 20TH ST NW PHONE: 320-287-2819
 HOLLOWAY, MN 56249
 WWW.MIDWESTERNDRILLING.COM

Estimate

Date	Estimate #
05/06/2019	2671
	Exp. Date

Address
Mark G. Davidson MSA Professional Services 60 Plato Blvd #140 St. Paul, MN 55107 RE: Geoprobe Services, Groundwater Sampling, Luck WI

Date	Description	Quantity	Rate	Amount
05/06/2019	Mobilization/Demobilization - Probing Drilling	1	\$400.00	\$400.00
05/06/2019	Probing - Mileage reimbursement multiplier for single unit (per mile)	350	\$2.70	\$945.00
05/06/2019	Underground Utility Clearance - Public Utilities/Gopher One Call (per hour)	1	\$75.00	\$75.00
05/06/2019	Private Utility Locate	1	\$750.00	\$750.00
05/06/2019	Decontamination (per hour)	6	\$85.00	\$510.00
05/06/2019	Vertical groundwater profiling SP16 - per foot	670	\$8.00	\$5,360.00
05/06/2019	Groundwater Sampling Supplies (Per Boring)	19	\$25.00	\$475.00
05/06/2019	Seal borehole in accordance with well code - per foot	670	\$1.00	\$670.00
05/06/2019	Per Diem	4	\$175.00	\$700.00
			Total	\$9,885.00

Accepted By _____

Accepted Date _____



5001 Boone AVE N
 New Hope, Minnesota 55428
 (763) 424-4803
 fax (763) 424-9452

MN Petrofund Registration # 1476

Client: MSA
 Contact: Mark Davidson
 Services: Groundwater Sampling

Date: 5/6/2019
 Project #: _____
 Project #: _____
 Address: Luck, WI

- Dakota will coordinate a public and private utility locate for the work area.
- Client and/or property owners will assist in the location of private utilities in work area(s).
- Advance 4 borings to a depth of 10' for water sample collection, utilizing an SP16.
- Advance 6 borings to a depth of 30' for water sample collection, utilizing an SP16.
- Advance 9 borings to a depth of 50' for water sample collection, utilizing an SP16.
- All water samples will be collected with poly tubing and a peristaltic pump.
- All boring locations will be abandoned according to State guidelines.
- Dakota personnel will be prepared to conduct all work in Level D protective equipment.

Unit Costs

Description	Unit Cost	Unit	Estimated Quantity	Estimated Total
Project Coordination	\$75.00	Lump Sum	1	\$75.00
Mob/Demob	\$1,800.00	Lump Sum	1	\$1,800.00
Private Locate	\$600.00	Lump Sum	1	\$600.00
Probe/Crew/Supplies	\$2,000.00	9-Hr Day	4	\$8,000.00
Per Diem	\$175.00	Per Person/Day	6	\$1,050.00
Abandonment	\$1.00	Per Foot	670	\$670.00
WDNR Sealing Record	\$50.00	Per Address	1	\$50.00
SUBTOTAL				\$12,245.00

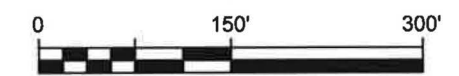
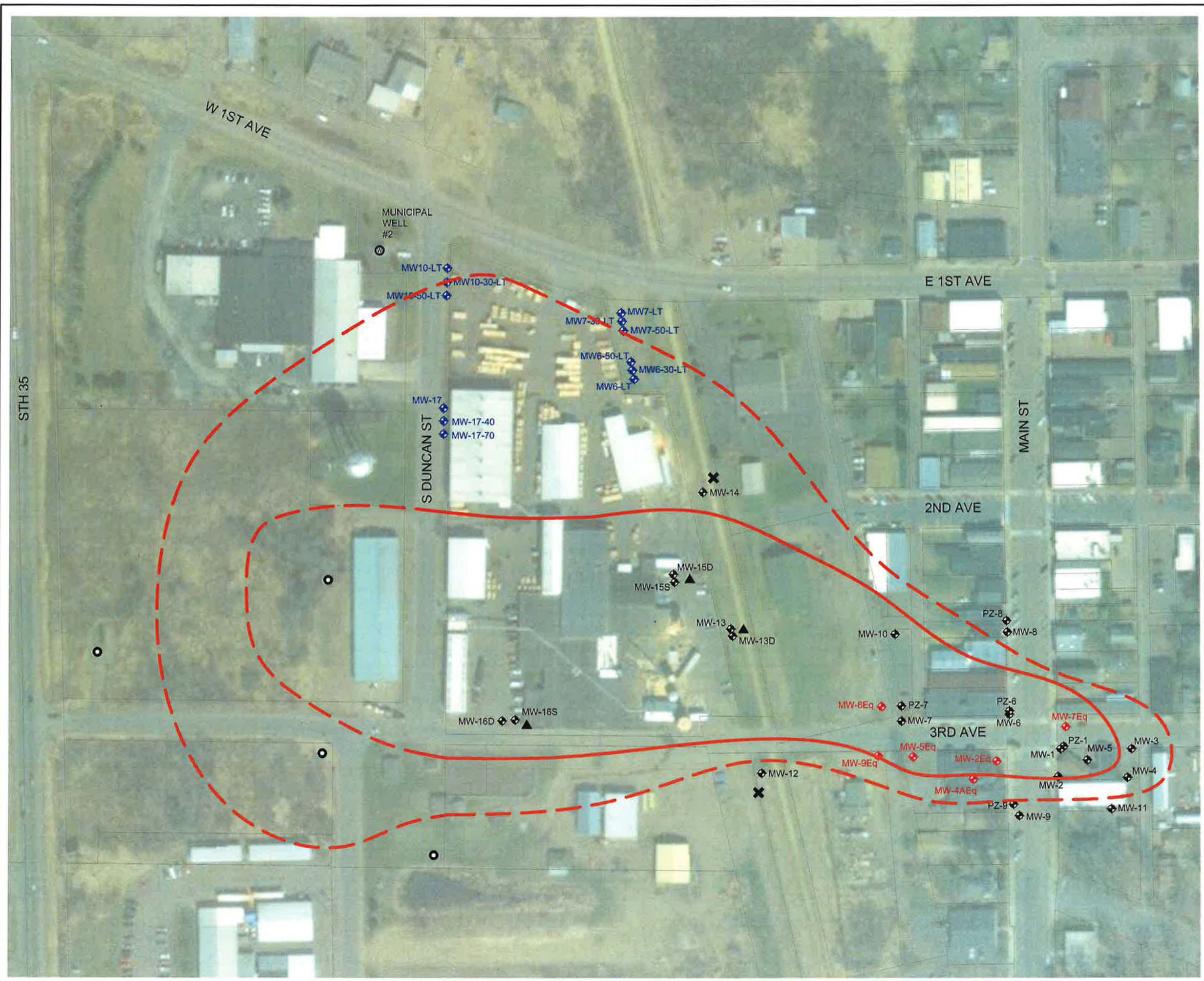
Client Signature: _____
 Client Name: _____
 Client Title: _____

Date: _____

Dakota Signature: *Dan Thompson*
 Dakota Name: Dan Thompson
 Dakota Title: Operations Manager

Date: 5/6/2019

Please Note: Projects canceled within 72 hours of scheduled start date may be assessed a \$1,000 cancellation fee.



LEGEND

- MW-1 ◆ MONITORING WELL LOCATION
 - COLLECT GROUNDWATER SAMPLES AT 10 FT, 30 FT, AND 50 FT INTERVALS
 - ✕ COLLECT GROUNDWATER SAMPLES AT 30 FT AND 50 FT INTERVALS
 - ▲ COLLECT GROUNDWATER SAMPLES AT 50 FT INTERVAL
 - ESTIMATED EXTEND OF GROUNDWATER PLUME EXCEEDING DNR ENFORCEMENT STANDARDS.
 - - - ESTIMATED EXTEND OF GROUNDWATER PLUME EXCEEDING DNR PREVENTIVE ACTION LIMITS.
- MAP PRODUCED USING THE MOST RECENT SAMPLING DATA FOR EACH WELL.

Figure B.3.b
GROUNDWATER ISO CONCENTRATION
DECEMBER 12, 2018

LAUNDRY BASKET
LUCK, WISCONSIN

MSA ENGINEERING | ARCHITECTURE | SURVEYING
FUNDING | PLANNING | ENVIRONMENTAL
332 W Superior Street, Duluth MN 55802
(218) 722-3915 www.msa-ps.com
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DRAWN BY	CAR	DATE	01/31/2018	SHEET NO.	—
CHECKED BY	JE	SCALE	AS SHOWN	FILE NO.	6080801