

*“Where Technology and Ecology Meet”*

April 7, 2020

Mr. Dustin Sholly  
Wisconsin Department of Natural Resources  
101 South Webster Street  
Box 7921  
Madison, Wisconsin 53707-7921

Dear Mr. Sholly,

Enclosed is the WRR Environmental Services Company, Inc. (EPA ID # WID 990829475) revised 2020-2026 Corrective Action Plan Estimate. This revised estimate is requested by the Department to update the estimated costs for any additional remediation activity, maintenance and length of time to closure of the Corrective Action. The current financial assurance for the Corrective Action is in the form of a letters of credit, LC #110222679 for \$502,105 expiring on July 1, 2020.

The attached revised Corrective Action estimate was prepared by Tony Miller of Gannett Fleming, Inc. Gannett Fleming used current 2020 labor rates, current third-party quotes and utility rates. The revised Corrective Action Estimate is \$502,105 (Table 3) which includes a 15% contingency.

Prior to July 1, 2020 you will receive an updated Letter of Credit #110222679 in the amount of \$502,105 extended to July 1, 2021.

Should you have any questions or if I may be of any additional assistance, please do not hesitate to call me at (715) 852-1605.

Sincerely,



Robert T. Fuller  
Executive VP / CFO  
WRR Environmental Services Company, Inc.

Cc: (w/encl.) Doug Coenen, Wisconsin Department of Natural Resources via email

Benjamin Petrus, Wisconsin Department of Natural Resources via email



**Gannett Fleming**

**Excellence Delivered *As Promised***

April 7, 2020  
File #55929.005

James Hager and Robert Fuller  
WRR Environmental Services, Co., Inc.  
5200 State Road 93  
Eau Claire, WI 54701-9807

Re: **Estimated Costs for Remaining Work as of February 29, 2020**  
WRR Environmental Services Facility – Eau Claire, Wisconsin  
WDNR BRRTS No. 02-18-000274  
WDNR FID No. 618 026 530  
EPA ID No. WID 990 829 475

Dear Jim and Bob:

As requested by WRR Environmental Services, Co., Inc. (WRR) and required by the Wisconsin Department of Natural Resources (WDNR) under ch. NR 664, Subch. H, Wis. Adm. Code and CFR Title 40, Vol. 40 Section A § 264.142, this letter provides estimated costs for the remaining environmental remediation work as of February 29, 2020, at the subject WRR site in Eau Claire. The estimates were prepared by Gannett Fleming, Inc. (GF):

- To address Conditions 89, 90, and 139 sent to WRR by the WDNR on April 2, 2019.
- Assuming third-party consultants and contractors would conduct the necessary work based on the WDNR's Draft PECFA Usual & Customary unit rates for January through June 2020, recently obtained contractor quotes, and site-specific documentation provided by WRR. GF ensures and asserts that the unit costs, contractor quotes, etc. used are reasonable. In addition, a completed certification page for this updated Cost Estimate is attached.

The remedial activities that GF anticipates will be necessary to achieve regulatory site closure are summarized below. Assumptions and the timeframe for each of the activities are included with a brief description of each activity.

1. Collection and analyses of groundwater samples from on- and off-site monitoring wells on a semi-annual basis. Table 1 presents the proposed sampling program for 2020. These activities are estimated to be conducted until Spring 2023, after which the remediation systems will be turned off and post-remediation samples will be collected on a quarterly basis, as listed in Table 2. Separate cost estimates are provided as Task #9 in Table 3 for the collection of eight quarterly rounds of post-remediation groundwater samples from the monitoring wells through Summer 2025 and Task #14 for the annual sampling of two private wells on Wild Rose Lane.

**Gannett Fleming, Inc.**

8040 Excelsior Drive, Suite 303, Madison, WI 53717

t 608.327.5050

[www.gannettfleming.com](http://www.gannettfleming.com)

James Hager  
Robert Fuller  
WRR Environmental Services, Co., Inc.  
April 7, 2020

-2-

2. Operation and maintenance (O&M) and monitoring of the soil vapor extraction (SVE) and groundwater remediation systems. Currently, the two SVE systems include a total of four wells. The main SVE system is composed of SVE-4, RW-10, and RW-11 being vented by one relatively large vacuum blower (Rotron Model EN858 with 7.5-hp motor), and SVE-5 being vented using a smaller vacuum blower (Rotron Model EN303 with 0.5-hp motor). Both SVE systems were shut down on January 7, 2020, due to cold weather and will resume operation this spring when average daily air temperatures rise above freezing. As discussed in GF's January 2020 Operation and Maintenance report, two additional vent wells (SVE-6 and SVE-7) were installed in the northwestern portion of the site in November 2019. SVE-7 will be connected to the main SVE system, and SVE-6 will be vented using a separate vacuum blower. For estimating purposes, GF assumed that the SVE systems will continue seasonal operation until June 2023.

Groundwater remediation is currently conducted by pumping groundwater from WRR's production well and six recovery wells (RW-6, RW-7, and RW-10 through RW-13). The pumped water is treated using an air stripper and then discharged into an aeration pond where it is mixed with non-contact water used in production before being discharged to an adsorption pond southwest of the WRR facility. RW-1 never pumped groundwater; all other recovery wells not listed above were turned off because the volatile organic compound (VOC) concentrations in the pumped water were asymptotically low and/or because other recovery wells or remedial activities made their operation unnecessary. See GF's January 2020 O&M report for a detailed summary of the operation of the SVE and groundwater remediation systems.

For estimating purposes, the following assumptions were made for each remediation system's operation:

- The main SVE system connected to SVE-4, RW-10, and RW-11 will operate continuously until June 2023. Dual-purpose vent well SVE-7, installed in November 2019, will be connected to the main SVE system and begin venting in May 2020. After SVE-7 begins venting, exhaust samples will be collected for VOC analysis once each day for the first 3 days of their operation, weekly for the next three weeks, and monthly thereafter, per WDNR guidance.
- The SVE vacuum blower connected to SVE-5 will continue seasonal operation until June 2023, with monthly exhaust gas samples collected from the SVE-5 blower.
- SVE-6, installed in November 2019, will begin venting in May 2020 and will continue seasonal operation until June 2023. After SVE-6 begins venting, exhaust samples will be collected for VOC analysis once each day for the first 3 days of their operation, weekly for the next three weeks, and monthly thereafter, per WDNR guidance.

James Hager  
Robert Fuller  
WRR Environmental Services, Co., Inc.  
April 7, 2020

-3-

- Groundwater recovery wells RW-6, RW-7, and RW-10 through RW-13 will operate continuously until June 2023. Samples will be collected from these wells on a quarterly basis to monitor the mass of VOCs removed by each well.
- Groundwater recovery wells RW-2, RW-4, RW-8, and RW-9 are no longer considered necessary for groundwater remediation and were turned off in January 2020.
- WRR's production well will operate through the anticipated date of closure in October 2025. Note that the production well was not installed as part of the remedial activities conducted at this site; however, it is removing VOCs from the lower aquifer on site, so it is effectively acting as a recovery well. With the operation of RW-12 located approximately 40 feet south of the production well, GF does not believe that continued operation of the production well is necessary as part of the remedial activities at this site. Therefore, maintenance, electrical, and sampling costs associated with the production well's operation were not included as part of this estimate.

Also included in the Task #2 operating costs in Table 3 are the annual electricity, repair, and maintenance costs for the SVE/groundwater recovery well, turbo stripper, and pond aerator systems. Attachment A provides a summary of WRR's site-specific O&M cost workbook for reference. An Excel workbook with additional details regarding these costs, based on site-specific documentation, is included with this report, as requested.

3. Remediation of groundwater impacted by chlorinated VOCs by injecting reducing reagents into the groundwater. Pilot test injections were conducted in June 2018, and the first two phases of full-scale injections were conducted in October 2018 and August 2019.
4. The final phase of full-scale injections of reducing reagents would occur during the summer of 2020 into the groundwater in areas that were not injected in 2018 or 2019 and are not being remediated by the current pump-and-treat systems. All costs associated with the measurement of remediation by natural attenuation (RNA) parameters in the field or analyses in the lab were moved from Task #3 to Task #1 as part of the groundwater sampling activities. The costs for reporting injection activities and RNA parameter results were moved to Task #6 as part of the O&M report. Collection and analyses of bi-monthly discharge samples from the aeration reservoir. These sampling events will continue through June 2023 when the groundwater recovery wells are turned off. If pumping from WRR's production well continues after that time, the cost of collecting and analyzing discharge samples will be part of the facility operating costs, not the costs associated with the environmental remediation of the site, so no costs were included for those activities past June 2023.

James Hager  
Robert Fuller  
WRR Environmental Services, Co., Inc.  
April 7, 2020

-4-

5. Preparation of monthly WPDES discharge monitoring reports (DMRs) through June 2023, after which the costs to prepare the DMRs will be considered part of WRR's ongoing operating costs.
6. Preparation of annual Operations & Maintenance (O&M) reports through June 2023, the anticipated time that all remedial systems will be turned off.
7. Preparation and execution of a work plan for assessment of the vapor intrusion pathway (VIP) after active soil and groundwater remediation has been completed. As stated in previous correspondence, because solvents, petroleum products, and other VOCs are routinely stored, handled, treated, and discharged to the air at the WRR facility, GF believes it would be difficult, if not impossible, to differentiate between aboveground and belowground sources of VOCs in the indoor air. Therefore, the VIP assessment would include measuring radon levels in sub-slab vapor and indoor air samples as a surrogate for VOCs to develop attenuation factors for the concrete slabs and foundations for each of the on-site buildings. Sub-slab vapor samples will also be collected for VOC analyses and used with the attenuation factors to determine the potential for sub-slab vapors to enter each building at concentrations above the indoor air vapor action levels. The estimate for this activity includes the costs for preparing a report summarizing the results of the VIP assessment.
8. Collection of post-remediation confirmation soil samples after the SVE systems have been turned off. For estimating purposes, it is assumed this activity will occur in Fall 2023.
9. Collection and analyses of quarterly groundwater samples to verify that VOC concentrations do not rebound significantly after the remediation systems have been turned off. For estimating purposes, this activity is assumed to occur starting in Fall 2023 through Summer 2025. As discussed in phone and email correspondence with Mae Willkom in November 2017, only a select number of wells will need to be sampled for all eight rounds. Wells that have been previously impacted with high VOC concentrations will be sampled on a quarterly basis, along with any sentinel wells upgradient of private wells (i.e., wells W-30A&B). Other wells that have historically contained low or no VOC concentrations will be sampled on a semi-annual or annual basis. Wells that are located far off site that have contained low or no VOC concentrations and were/are unlikely to be affected by operation of the remediation systems would only be sampled on the last round of sampling. A work plan for the collection of post-remediation samples will be included in the last O&M report prior to shutting off the remediation systems. For estimating purposes, Table 2 lists the sampling frequency of the wells that would be sampled as part of the post-remediation sampling events.
10. Preparation of a closure request following completion of remedial activities and achieving concentrations of VOCs in the soil and groundwater that are protective of human health and the environment. The closure request would include continuing obligation packets for the

James Hager  
Robert Fuller  
WRR Environmental Services, Co., Inc.  
April 7, 2020

-5-

source and off-site properties and database registry of areas where VOC concentrations in the soil and groundwater are above regulatory standards. For estimating purposes, this activity is assumed to occur in Fall 2025.

11. Post-closure abandonment and removal of groundwater monitoring and recovery wells. For estimating purposes, this activity is assumed to occur in 2026.
12. Decommissioning of the aboveground portions of the SVE and groundwater remediation systems. For estimating purposes, this activity is assumed to occur after the site achieves regulatory closure in 2026.
13. Miscellaneous correspondence between the consultant, WRR, and the WDNR regarding operations of remediation systems and sampling activities.
14. Annual sampling of private wells PW-11 and PW-16 on Wild Rose Lane from 2020 through 2031. This includes five years of post-closure annual sampling.

Table 3 presents a summary of the estimated costs for completing Tasks #1 through #14. Attachment B presents spreadsheets with a breakdown of the costs and assumptions used to prepare the estimates for each task shown in Table 3. The cost estimates were prepared using the following references and assumptions:

- Site conditions are as of February 29, 2020. That includes the site conditions through October 31, 2019, as described above and in GF's January 2020 *Annual O&M Report*, and the following additional work conducted between November 1, 2019, and February 29, 2020:
  - Installation of SVE vent wells SVE-6 and SVE-7 in November 2019.
  - Operation of the blowers for the main SVE system and SVE-5 through January 7, 2020, when they were turned off for the winter.
  - Continued operation of the groundwater recovery wells and remediation systems through February 29, 2020.
- Connection of a separate blower to SVE-6 and the main SVE system to SVE-7 is complete.
- Remediation systems will continue to operate until June 2023, when they will be turned off. The end date of June 2023 is based on the documented improvement in groundwater quality and trends in VOC concentrations measured in dissolved-phase and SVE exhaust gas samples. GF believes that the addition of SVE-6 and SVE-7 and supplemental injections of reducing reagents scheduled for 2020 will further decrease VOC concentrations to levels that will be asymptotically low, indicating that continued active remediation is no longer necessary by June 2023.

James Hager  
Robert Fuller  
WRR Environmental Services, Co., Inc.  
April 7, 2020

-6-

- Unit rates for consultant's labor and/or specific tasks were taken from the WDNR's December 2020 Usual and Customary Cost Schedule for PECFA sites for January – June 2020 (RR-113a). Note that the estimated costs for Task #10 (Closure Request preparation) and Task #12 (decommissioning of remediation systems) were revised from the previous Financial Assurance (FA) report. The 2020 estimates shown on Table 3 were calculated by multiplying the WDNR's 2020 Usual & Customary unit rates for those tasks by two.
- The consultant has an office within 5 miles of the WRR facility and does not charge for mobilization of routine events (i.e., collection of discharge samples, O&M of remediation systems, etc.), travel, lodging, food, or other associated costs. Larger events (e.g., Task #1 annual and semi-annual groundwater monitoring) include an annual mobilization charge to cover coordination time, etc.
- Task #6 (2023 O&M report only), Task #7, Task #8, and Task #10 include WDNR review fees of reports and work plans included with those tasks.
- Task #10 includes \$650 for WDNR fees to place the soil and groundwater with VOCs at concentrations above regulatory standards on the WDNR's database at the time of closure.
- All costs were prepared using 2020 dollars. As summarized in Table 3, the total estimated cost adjusted for inflation is \$434,741, based on a 2020 inflation factor of 1.0174, as provided to WRR by the WDNR.
- A 15 percent contingency of \$67,364 was added to the total estimated cost adjusted for inflation, as shown in Table 3. GF and WRR agree that this estimated contingency of approximately \$67,000 provides adequate supplemental funding for continued active remediation beyond June 2023, if necessary.
- WRR's total FA of \$502,105 remains unchanged from last year.

Task-specific changes with price differentials of more than \$5,000 in this Cost Estimate from the previous Cost Estimate submitted to the WDNR on April 14, 2019, are explained below.

- Tasks for 2019 were completed and removed from the cost estimate.
- An additional year was added to groundwater sampling (Task #1), operation of the SVE and groundwater remediation systems (Task #2), aeration reservoir samples (Task #4), submittal of monthly DMRs (Task #5), preparation of the O&M reports (Task #6), and miscellaneous correspondence (Task #13). This also pushed the end dates for post-remediation activities (Tasks #7 through Task #12 and Task #14) back another year.

**Gannett Fleming**

James Hager  
Robert Fuller  
WRR Environmental Services, Co., Inc.  
April 7, 2020

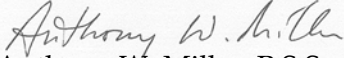
-7-


- Task 1 includes an additional \$2,000 per year for 2020 through 2022 and \$1,841 for 2023 for groundwater sampling activities. The increase was primarily due to moving the costs for measuring RNA parameters in the field and lab from Task #3 to Task #1.
- Task 2 includes an additional \$6,384 for SVE/groundwater remediation system sampling and O&M based on updated projections and the startup of SVE-6 and SVE-7.

In addition, WRR and the WDNR agreed that the 2020 inflation factor of 1.0174 should simply be applied to the total estimated cost, as shown in Table 3, and no future value subtotals by year were included. Feel free to contact us if you have any questions.

Sincerely,

GANNETT FLEMING, INC.

  
Anthony W. Miller, P.S.S.  
Senior Environmental Scientist

  
Clifford C. Wright, P.E, P.G.  
Senior Project Engineer

AWM/jec/Enc.

ecc: Becky Anderson (WRR)

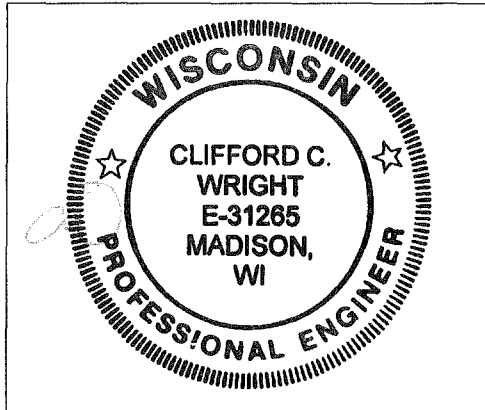


**ENGINEERING AND HYDROGEOLOGIST CERTIFICATIONS**

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print Name Clifford C. Wright	Title Project Engineer/Geologist
Signature <i>Clifford C. Wright</i>	Date <i>4/6/2020</i>

P.E. Seal for E-31265:



I hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print Name Clifford C. Wright	Title Project Engineer/Geologist
Signature <i>Clifford C. Wright</i>	Date <i>4/6/2020</i>

WRR ENVIRONMENTAL SERVICES CO., INC.  
EAU CLAIRE, WISCONSIN

TABLE 1

GROUNDWATER MONITORING SCHEDULE (SPRING 2020 THROUGH SPRING 2023)

Sample Point Name	WDNR Well ID	Sampling Frequency
Production Well	010	A
Drinking Water Well	020	SA
W-1	100	A
W-1A	103	SA
W-1D	109	SA
W-2	112	SA
W-2A	115	A
W-2B	118	A
W-3	121	A
W-3A	124	A
W-3B	127	A
W-4	130	A
W-5	133	SA
W-6	136	SA
W-7	139	SA
W-7A	142	SA
W-17	169	A
W-17A	172	SA
W-17B	175	SA
W-18	178	A
W-18A	181	SA
W-19R	185	SA
W-26	205	SA
W-27	208	SA
W-28	211	A
W-29	214	A
W-30A	217	SA
W-30B	220	SA
W-31A	223	SA
W-31B	226	SA
W-32	228	SA
W-33	233	SA
W-34	235	SA
W-35		SA
MW-106	330	A
MW-106A	333	A

Sample Point Name	WDNR Well ID	Sampling Frequency
MW-111	357	A
MW-111A	360	SA
MW-111B	363	SA
MW-112	366	A
MW-112A	369	A
MW-112B	372	A
MW-113	375	A
MW-113A	378	A
MW-113B	381	A
MW-114	384	SA
MW-114A	387	SA
MW-114B	390	A
MW-115	393	SA
MW-115A	396	SA
MW-115B	399	SA
MW-116	402	A
TW-1	404	SA
RW-2	503	A
RW-4	509	A
RW-5	512	A
RW-6	515	Q
RW-7	518	Q
RW-8	521	A
RW-9	524	A
RW-10	527	Q
RW-11	530	Q
RW-12	532	Q
RW-13	534	Q
Seep 2N (2nd Seep N)	610	A
Seep 7N	612	A
Method Blank	995	1 per event
Field Blank	997	1 per event
Trip Blank	999	1 per cooler
Duplicate		1 per 10 samples

NOTES:

Q = Recovery wells RW-6, RW-7, and RW-10 through RW-13 will be sampled on a quarterly basis as part of Task #2.

SA = Semi-annual sample collected in spring and fall of each year.

A = Annual sample collected in the spring of each year.

DS = Discontinue sampling.

SUMMARY OF SAMPLES PER SAMPLING ROUND:

Sampling Round	# of Samples	# of Dups/Blanks*	Total # of Samples
Spring - Annual Round	60	8	68
Fall - Semi-Annual Round	30	5	35

\*Duplicates (dups) from 10% of the sample set plus 1 method blank and 1 field blank will be collected each sampling round.

WRR ENVIRONMENTAL SERVICES CO., INC.  
EAU CLAIRE, WISCONSIN

TABLE 2

POST-REMEDATION GROUNDWATER MONITORING SCHEDULE (OCTOBER 2023 THROUGH OCTOBER 2025)

Sample Point Name	WDNR Well ID	Sampling Frequency
Production Well	010	A
Drinking Water Well	020	SA
W-1	100	Q
W-1A	103	Q
W-1D	109	Q
W-2	112	Q
W-2A	115	SA
W-2B	118	SA
W-3	121	BA
W-3A	124	BA
W-3B	127	BA
W-4	130	BA
W-5	133	Q
W-6	136	Q
W-7	139	Q
W-7A	142	Q
W-17	169	SA
W-17A	172	Q
W-17B	175	Q
W-18	178	Q
W-18A	181	Q
W-19R	185	Q
W-26	205	Q
W-27	208	Q
W-28	211	Q
W-29	214	SA
W-30A	217	SA
W-30B	220	SA
W-31A	223	Q
W-31B	226	Q
W-32	228	Q
W-33	233	Q
W-34	235	Q
W-35		Q
MW-106	330	BA
MW-106A	333	BA

Sample Point Name	WDNR Well ID	Sampling Frequency
MW-111	357	BA
MW-111A	360	SA
MW-111B	363	SA
MW-112	366	A
MW-112A	369	A
MW-112B	372	A
MW-113	375	SA
MW-113A	378	SA
MW-113B	381	SA
MW-114	384	Q
MW-114A	387	Q
MW-114B	390	Q
MW-115	393	Q
MW-115A	396	Q
MW-115B	399	Q
MW-116	402	Q
TW-1	404	Q
RW-2	503	A
RW-4	509	A
RW-5	512	A
RW-6	515	SA
RW-7	518	SA
RW-8	521	A
RW-9	524	A
RW-10	527	SA
RW-11	530	SA
RW-12	532	SA
RW-13	534	SA
Seep 2N (2nd Seep N)	610	A
Seep 7N	612	BA
Method Blank	995	1 per event
Field Blank	997	1 per event
Trip Blank	999	1 per cooler
Duplicate		1 per 10 samples

NOTES:

- Q = Quarterly sampling in First, Second, Third, and Fourth Quarter of each year (30 wells).
- SA = Semi-annual sampling in Second Quarter of 2024 and 2025 and Fourth Quarter of 2023 and 2024 (18 wells).
- A = Annual sampling in the Second Quarter of 2024 and 2025 (10 wells).
- BA = Biennial sampling in the Second Quarter of 2025 (8 wells).

SUMMARY OF SAMPLES PER QUARTER:

Quarter	# of Samples	# of Dups/Blanks*	Total # of Samples
3rd Qtr 2023	30	5	35
4th Qtr 2023	48	7	55
1st Qtr 2024	30	5	35
2nd Qtr 2024	58	8	66
3rd Qtr 2024	30	5	35
4th Qtr 2024	48	7	55
1st Qtr 2025	30	5	35
2nd Qtr 2025	66	9	75

\*Duplicates (dups) from 10% of the sample set plus 1 method blank and 1 field blank will be collected each sampling round.

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TABLE 3

SUMMARY OF COSTS TO CLOSURE BY TASK

Task	Description	Estimated Annual Costs in Dollars (\$)							Estimated Costs (\$)	
		2020	2021	2022	2023	2024	2025	2026	2027-31	Total
1	Groundwater (GW) monitoring Spring 2020 - Spring 2023	16,540	16,540	16,540	11,085					60,704
2	Soil vapor extraction/GW remediation system sampling and O&M	41,591	38,656	38,656	20,312					139,215
3	Conduct final phase of full-scale GW injections	48,459								48,459
4	Aeration reservoir sampling through June 2023	2,210	2,210	2,210	1,105					7,734
5	Submit monthly DMRs (11 in 2020, 12/yr in 2021-22, 6 in 2023)	1,328	1,594	1,594	797					5,312
6	Prepare and submit annual O&M/progress reports	2,143	2,143	2,143	2,843					9,273
7	Prepare/submit work plan & conduct vapor intrusion assessment				9,864					9,864
8	Post-remediation confirmation soil sampling (Fall 2023)				7,407					7,407
9	Post-remediation GW sampling Fall 2023 - Spring 2025				11,512	24,266	13,756			49,534
10	Closure request submittal in Dec 2025						8,766			8,766
11	Post-closure well abandonment (Spring 2026)							28,673		28,673
12	Decommission remediation systems							3,298		3,298
13	Miscellaneous correspondence with WRR and WDNR	5,460	5,460	5,460	5,460	5,460	5,460	2,730		35,488
14	Annual sampling of private wells (2020 through 2031)	239	239	239	239	239	239	239	11,903	13,578
	Subtotals:	117,970	66,841	66,841	70,624	29,965	28,220	34,941	11,903	427,306

Total Estimated Cost Adjusted for Inflation<sup>(1)</sup>: \$434,741

Contingency Percent: 15% \$67,364

Total Financial Assurance: \$502,105

NOTES:

The cost estimates summarized above are based on the following assumptions:

Local consultant conducts sampling, etc. Labor cost breakdown, etc. included on sheets used to prepare estimated cost(s) for each task (see Attachment B).

Consultant is located within 5 miles of site and does not charge for mobilization, travel, food, overnight lodging, etc. except as shown in Attachment B..

Task #6 (2023 report only) and Tasks #7 & #8 include \$700 WDNR review fee.

Task #10 includes \$1,050 for WDNR closure review fee, \$350 for groundwater database, and \$300 for soil database fees.

DMR = Discharge monitoring report.

FOOTNOTE:

(1) Adjustment for inflation is to multiply the total estimated cost by 1.0174, the 2020 inflation factor provided to WRR by the WDNR.

**ATTACHMENT A**

**WRR OPERATION AND MAINTENANCE COST SUMMARY**

ATTACHMENT A

Projected Electrical Costs based on Current Operating Parameters Plus SVE-6 and SVE-7 added in 2020

Well/Equipment ID	Hours = 24		On Percent	kWh	2019 Cost/day		Cost/month		cost/yr
	HP	Watts			0.0863	per kWh			
RW-6	0.75	559	70%	9.4	\$ 0.81	\$ 24.33	\$	291.91	
RW-7	0.75	559	70%	9.4	\$ 0.81	\$ 24.33	\$	291.91	
RW-10	0.75	559	70%	9.4	\$ 0.81	\$ 24.33	\$	291.91	
RW-11	0.75	559	95%	12.8	\$ 1.10	\$ 33.01	\$	396.16	
RW-12	0.75	559	50%	6.7	\$ 0.58	\$ 17.38	\$	208.51	
RW-13	0.75	559	50%	6.7	\$ 0.58	\$ 17.38	\$	208.51	
SVE 4	7.5	5593	60%	80.5	\$ 6.95	\$ 208.51	\$	2,502.08	
SVE 5	0.5	373	60%	5.4	\$ 0.46	\$ 13.90	\$	166.81	
SVE 6	3	2237	60%	32.2	\$ 2.78	\$ 83.40	\$	1,000.83	
SVE 7 (with SVE-4)		0	60%	0.0	\$ -	\$ -	\$	-	
Turbo Stripper	25	18643	70%	313.2	\$ 27.03	\$ 810.86	\$	9,730.31	
Aerators (4@1.5HP)	6	4474	100%	107.4	\$ 9.27	\$ 278.01	\$	3,336.11	

Total: \$ 51.18 \$ 1,535.42 \$ **18,425.04**

Year	Pct of year	Elect Cost (2019 \$)
Dec 15, 2019 - Dec 14, 2020	2020 100.00%	\$ <b>18,425.04</b>
Dec 15, 2020 - Dec 14, 2021	2021 100.00%	\$ <b>18,425.04</b>
Dec 15, 2021 - Dec 14, 2022	2022 100.00%	\$ <b>18,425.04</b>
Dec 15, 2022 - June 30, 2023	2023 53.42%	\$ <b>9,843.51</b>

Do not operate SVE systems during Winter (5/12) of Year      Operating %      58.33%

ATTACHMENT A

Potential Large Maintenance Items that are possible between December 15, 2019 - June 30, 2023

	Qty	Cost/each	Total	Labor Hrs	Labor \$/HR	Total Labor	Total Expenditure
Turbo Stripper Packing	20000	\$ 0.235	4,700.00	8	75	600 \$	5,300.000
Turbo Stripper Motor	1	3000	3,000.00	8	75	600 \$	3,600.000
SVE Blower	1	6000	6,000.00	4	75	300 \$	6,300.000
Submersible Pump	4	450	1,800.00	16	75	1200 \$	3,000.000
Aerator Replacement	4	250	1,000.00	8	75	\$2,400 \$	3,400.000
						Total	<b>\$21,600</b>

From/ To Dates	pct / year	Year	Pct total	Amortize Each Year
Dec 15, 2019 - Dec 14, 2020	100.00%	2020	28.29%	<b>\$6,111.63</b>
Dec 15, 2020 - Dec 14, 2021	100.00%	2021	28.29%	<b>\$6,111.63</b>
Dec 15, 2021 - Dec 14, 2022	100.00%	2022	28.29%	<b>\$6,111.63</b>
Dec 15, 2022- June 30 2023	53.42%	2023	15.12%	<b>\$3,265.12</b>
	3.534247		100.00%	<b>\$21,600.00</b>

ATTACHMENT A

Routine O&M Annual Supply Cost Summary

Total routine O&M supply costs (2017-2019):	\$12,532.80
Average annual routine O&M supply cost based on 2017-2019:	\$4,177.60
Total estimated O&M supply costs 2020-2023:	<b>\$14,764.67</b>

From / To Dates	Percent/Year	Year	Pct total	Amount to Amortize Each Year
Dec 15, 2019 - Dec 14, 2020	100.00%	2020	28.29%	<b>\$4,177.60</b>
Dec 15, 2020 - Dec 14, 2021	100.00%	2021	28.29%	<b>\$4,177.60</b>
Dec 15, 2021 - Dec 14, 2022	100.00%	2022	28.29%	<b>\$4,177.60</b>
Dec 15, 2022 - June 30, 2023	53.42%	2023	15.12%	<b>\$2,231.87</b>
	3.53		100.00%	<b>\$14,764.67</b>



**ATTACHMENT B**

**BREAKDOWN OF COSTS AND ASSUMPTIONS USED TO  
PREPARE THE ESTIMATES FOR EACH TASK**

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 1 - GROUNDWATER MONITORING SPRING 2020 - SPRING 2023

**Scope** - See task title above.

**Assumptions** - PDS bags used in 10 wells previously approved in 2013; all other wells low-flow or bailers; semi-annual sampling until remediation system shutdown, then quarterly; Labor & Mob WDNR U&C Unit rates for Jan - Jun 2020; analyses using ALS 2020 WRR Unit Rates.

**Annual and Semi-Annual Groundwater Monitoring Spring 2020 - Spring 2023**

Description	WDNR U&C Activity Code	Unit	Rate	Spring Annual Sampling Round		Fall Semi-Annual Sampling Round		Spring & Fall Combined	Comments
				Qty	Amount	Qty	Amount		
Mob/Demob	GS25	Site	\$690.92	1	\$690.92	1	\$690.92		Included to cover coordination time, etc.
Sample Collection	GS05	Well	\$74.62	66	\$4,924.92	36	\$2,686.32		Does not include collection of dups or blanks.
Purge Water Disposal - Mob	WD05 & WD25	Site	\$457.71	1	\$457.71	0	\$0.00		Mob covers annual coordination of sampling events.
Purge Water Disposal	WD10	Drum	\$43.37	3	\$130.11	3	\$130.11		Only includes disposal costs for purge water from wells with VOCs > NR 140 ES. Water will be disposed of in GW remediation system.
RNA Monitoring	GS10	Well	\$49.10	3	\$147.30	3	\$147.30		W-32, W-34 & W-35
RNA Sample Analyses	ALS Unit Rates	Well	\$558.00	3	\$1,674.00	--	--		
			\$75.00	--	--	3	\$225.00		
VOC Analysis	ALS Unit Rates	Sample	\$45.00	68	\$3,060.00	35	\$1,575.00		Includes dups, method, and field blanks.
Subtotals:					\$11,084.96		\$5,454.65		<b>\$16,539.61</b>

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 2 - SVE/GW REMEDIATION SYSTEM SAMPLING/O&M THROUGH JUNE 2023

**Scope** - See task title above (SVE = soil vapor extraction, GW = groundwater, and O&M = operation and maintenance).

**Assumptions** - Field Tech conducts monthly O&M and collects samples (4 hr/month) at WDNR U&C rate. Allocations for routine O&M annual supply costs, equipment repair/replacement, electricity, etc. as shown at bottom of page.

Labor Category	U&C Rate/Hr	Hours				Amount	Comments
		Q1	Q2	Q3	Q4		
Principal	\$138.06					\$0	
Sr. Professional	\$112.96	2	2	2	2	\$904	
Project Manager	\$112.96					\$0	
Staff Professional	\$94.13					\$0	
Field Professional	\$81.58	4	4	4	4	\$1,305	
Field Technician	\$62.76	12	12	12	12	\$3,012	Includes routine O&M
Drafter	\$69.03					\$0	
Administration	\$43.93					\$0	

**Labor subtotal: \$5,221 annual**

Additional labor costs in 2020 only:

Labor Category	U&C Rate/Hr	Hours				Amount	Comments
		Q1	Q2	Q3	Q4		
Field Technician	\$62.76	0	20	0	0	\$1,255	Start-up of SVE-6 & SVE-7 in Q2 of 2020

Lab analytical cost summary for remediation system sampling: ALS 2020 Unit Rates

Description	Rate	Qty	Amount	Comments
Monthly SVE exhaust gas samples	\$140	26	\$3,640	Routine seasonal sampling of SVE-5 (10x), Main (9x), & SVE-6 (7x)
2020 SVE-6 & -7 start-up sampling	\$140	12	\$1,680	Non-routine sampling (Day 1/2/3 and Week 1/2/3)
Quarterly recovery well sampling	\$45	24	\$1,080	RW-6, RW-7, RW-10 through RW-13 (not PW or other RWs)

**Total lab costs for 2020: \$6,400**

**Annual lab costs 2021-2023: \$4,720**

Annual site-specific O&M costs (see Excel workbook provided to the WDNR by WRR for supporting documentation):

Description	Amount	Comments
Routine O&M annual supply costs (based on 3-yr average)	\$4,178	2020-2022
Annual budget for non-routine repair/replacement	\$6,112	"
Annual electricity cost for remediation system operation	\$18,425	"
<b>Annual total for 2020-2022:</b>	<b>\$28,715</b>	
Routine O&M supply costs (based on 3-yr average)	\$2,232	Prorated for 2023 (operating time = 0.53 yr)
Budget for non-routine repair/replacement	\$3,265	"
Electricity cost for remediation system operation	\$9,844	"
<b>Total for 2023:</b>	<b>\$15,341</b>	

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 3 - SUPPLEMENTAL INJECTIONS OF REDUCING REAGENTS

**Scope** - Conduct second phase of full-scale injections of reducing reagents in areas with elevated CVOC concentrations in GW.

**Assumptions** - Supplemental injections will be conducted in 2020; assumes 1 field tech for 8 days of injections. Costs for collection & analyses of GW samples from W-32, W-34, & W-35 for RNA parameters included in Tasks #1 and reporting those results in O&M report (Task #6).

Labor Category	U&C Rate/Hr	Hours	Amount
Principal	\$138.06		\$0
Sr. Professional	\$112.96		\$0
Project Manager	\$112.96	1	\$113
Staff Professional	\$94.13	4	\$377
Field Professional	\$81.58	8	\$653
Field Technician	\$62.76	100	\$6,276
Drafter	\$69.03	2	\$138
Administration #1	\$43.93	2	\$88
Subtotal:			\$7,644
Drilling:			\$19,260
Reagents:			\$21,255
Field equipment rental:			\$300
<b>Total Cost for Task:</b>			<b>\$48,459</b>

**Subcontractor Cost Breakdown**

Drilling

\$19,260 Stevens Drilling 1/30/2020 quote

Reagents - includes EVO, Neutral Zone, DHC Microbes, OS, & Shipping

\$21,255 RNAS August 2019 invoice & unit rates - includes shipping

Field Equipment Rental:

Description	Unit Rate	Qty	Amount
Field Equipment	\$150	2	\$300
Subtotal:			\$300

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 4 - AERATION RESERVIOR SAMPLING THROUGH JUNE 2023

**Scope** - See task title above.

**Assumptions** - Samples collected twice a month. Each month, Field Tech will take 0.5 hr to collect one of the bi-monthly samples in conjunction with Task #2 and 1.0 hr to collect the second monthly sample.

Labor Category	U&C Rate/Hr	Hours				Amount
		Q1	Q2	Q3	Q4	
Principal	\$138.06					\$0
Sr. Professional	\$112.96					\$0
Project Manager	\$112.96					\$0
Staff Professional	\$94.13					\$0
Field Professional	\$81.58					\$0
Field Technician	\$62.76	4.5	4.5	4.5	4.5	\$1,130
Drafter	\$69.03					\$0
Administration	\$43.93					\$0

Subtotal: \$1,130

Description	Rate	Qty	Amount	Comments
Lab analysis-aeration pond samples	\$45	24	\$1,080	ALS 2020 Unit Rates

**\$2,210 Total annual cost for Task #4**

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 5 - PREPARE MONTHLY DISCHARGE MONITORING REPORTS

**Scope** - Prepare monthly DMRs until GW remediation systems; RWs are turned off in June 2023.

**Assumptions** - No GW remediation systems will be used after June 2023.

Unit rate for DMR preparation based on WDNR's Usual & Customary Costs for January - June 2020 - Activity Code RC05 - Regulatory Correspondence.

Year	# of DMRs	\$/DMR	Amount
2020	10	\$132.81	<b>\$1,328</b>
2021	12	\$132.81	<b>\$1,594</b>
2022	12	\$132.81	<b>\$1,594</b>
2023	6	\$132.81	<b>\$797</b>

Total: 40

**Subcontractor Costs**

No subcontractor costs.

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 6 - PREPARE ANNUAL O&M REPORTS

**Scope** - See task title above.

**Assumptions** - No active remediation will be conducted after June 2023.

Unit rate for report preparation based on WDNR's January - June 2020 RR-113a-E reference guide and is double the rate for U&C Activity Code OMR10 - Semi-annual GW Monitoring report per RR-628 (2 x \$1,071.66).

<b>Year</b>	<b># of Reports</b>	<b>\$/Report</b>	<b>WDNR Review Fee</b>	<b>Amount</b>
2020	1	\$2,143.32		<b>\$2,143</b>
2021	1	\$2,143.32		<b>\$2,143</b>
2022	1	\$2,143.32		<b>\$2,143</b>
2023	1	\$2,143.32	\$700	<b>\$2,843</b>

Total: 4

**Subcontractor Costs**

No subcontractor costs.

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 7 - PREPARE WORK PLAN & CONDUCT VAPOR INTRUSION ASSESSMENT

**Scope** - Prepare work plan (WP) and submit to WDNR. Conduct vapor intrusion assessment in seven on-site buildings and submit summary report.

**Assumptions** - Work will be conducted in 2023 & consist of collecting VOC & radon sub-slab samples and indoor radon samples and calculating attenuation factors for each building. Field work will take two 10-hour days by one field professional & field tech.

Labor Category	U&C Rate/Hr	Hours	Amount	Comments
Principal	\$138.06		\$0	
Sr. Professional	\$112.96	4	\$452	Review WP & report
Project Manager	\$112.96	8	\$904	Coordinate with WRR & subs
Staff Professional	\$94.13	24	\$2,259	Prepare WP & report
Field Professional	\$81.58	20	\$1,632	Collect samples
Field Technician	\$62.76	20	\$1,255	Collect samples
Drafter	\$69.03	4	\$276	
Administration	\$43.93	8	\$351	

Labor subtotal: \$7,129

ODC subtotal: \$1,055

Lab subtotal: \$980

WDNR Fees: \$700

**Total Task Cost: \$9,864**

**ODC (Overhead direct costs) for field equipment rental, etc.:**

Description	Unit Rate	Qty	Amount
Hammer drill	\$50	1	\$50
Vapor pins	\$50	7	\$350
Air pump	\$15	2	\$30
Level D PPE	\$25	1	\$25
Radon sensor	\$250	2	\$500
Shipping of radon sensor	\$100	1	\$100

Subtotal: \$1,055

**Lab Costs**

Description	Unit Rate	Qty	Amount	Comments
ALS - VOC (TO-15)	\$140	7	\$980	2019 ALS unit rate

Subtotal: \$980



WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 8 - POST-REMEDATION CONFIRMATION SOIL SAMPLING

**Scope** - Prepare work plan and submit to WDNR; WDNR review fee included. Collect confirmation soil samples and submit letter report.

**Assumptions** - Collect 2 soil samples/ boring from 10 borings. Analyze up to 20 soil samples for VOCs (only).

Description	WDNR U&C Activity Code	Unit	Unit Rate	Qty	Amount
Field work and lab costs					
Mob/Demob - Consultant	DP30	Site	\$563.31	1	\$563
DP 0-24 ft bgs Continuous Soil Sampling - Consultant	DP05	Ft	\$5.52	150	\$828
Direct Push Mob/Demob (includes decon) - Driller	DP80	Site	\$578.66	1	\$579
DP 0-24 ft bgs Continuous Soil Sampling - Driller	DP35	Ft	\$7.14	150	\$1,071
Lab Analysis - VOCs	ALS Unit Rate	Sample	\$55	20	\$1,100
Subtotal:					\$4,141
Office labor and work plan review fees					
Work Plan	IWP05	Submittal	\$1,495.18	1	\$1,495
WDNR Fees for Reviewing Work Plan	Not applicable	Submittal	\$700.00	1	\$700
Letter Report	LRA05	Submittal	\$1,070.47	1	\$1,070
Subtotal:					\$3,266

**Total Task Cost: \$7,407**

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 9 - POST-REMEDATION GROUNDWATER SAMPLING - FALL 2023 - SPRING 2025

**Scope** - See task title above.

**Assumptions** - Quarterly sampling as shown on Table 2 of report; Labor & Mob WDNR U&C rates for Jan - Jun 2020; analyses using ALS 2020 unit rates.

Description	WDNR U&C Activity Code	Unit	Unit Rate	2023-24				2024-25		2024		2025	
				Qty	Q3 Amount	Qty	Q4 Amount	Qty	Q1 Amount	Qty	Q2 Amount	Qty	Last Rd Amount
Mob/Demob	GS25	Event	\$690.92	1	\$690.92	1	\$690.92	1	\$690.92	1	\$690.92	1	\$690.92
Sample Collection	GS05	Well	\$74.62	30	\$2,238.60	48	\$3,581.76	30	\$2,238.60	58	\$4,327.96	66	\$4,924.92
Purge Water Disposal <sup>(1)</sup>	WD10	Drum	\$43.37	3	\$130.11	3	\$130.11	3	\$130.11	3	\$130.11	3	\$130.11
VOC Analysis	ALS Unit Rates <sup>(2)</sup>	Sample	\$45.00	35	\$1,575.00	55	\$2,475.00	35	\$1,575.00	66	\$2,970.00	75	\$3,375.00
Subtotals:					\$4,634.63		\$6,877.79		\$4,634.63		\$8,118.99		\$9,120.95

**FOOTNOTES:**

(1) Only purge water from wells with VOCs > NR 140 ES.

(2) Includes dups, method, and field blanks - ALS 2020 Unit Rates

Year	Period	Amounts
2023	Q3 & Q4	\$11,512
2024	Q1 - Q4	\$24,266
2025	Q1 & Q2	\$13,756
Total:		\$49,534

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 10 - CLOSURE REQUEST PREPARATION AND SUBMITTAL IN DECEMBER 2025

**Scope** - See task title above.

**Assumptions** - Active remediation is successful, and RNA will address any residual contamination.

<b>Document Description</b>	<b>WDNR U&amp;C Activity Code</b>	<b>Unit</b>	<b>WDNR U&amp;C Unit Rate</b>	<b>Qty<sup>(1)</sup></b>	<b>Amount</b>
Closure Request	CR05	Submittal	\$2,781	2	\$5,562
Continuing Obligations Packet (Source Property)	CR15	Packet	\$522.58	2	\$1,045
Continuing Obligations Packet (Off-Site Property)	CR20	Packet	\$229.39	2	\$459
Subtotal:					\$7,066

WDNR closure report review fee:	\$1,050
Groundwater database fee:	\$350
Soil database fee:	\$300
WDNR fee subtotal :	<u>\$1,700</u>

**Total Task Cost: \$8,766**

FOOTNOTE:

(1) Based on the relatively large site size, WDNR's 2020 Usual & Customary unit rates for this task were multiplied by two.

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 11 - ABANDON MONITORING AND REMEDIATION WELLS AFTER CLOSURE

**Scope** - Abandon all remaining monitoring and remediation wells after closure.

**Assumptions** - Consultant will abandon 52 water table wells less than 50 feet deep; driller will abandon all piezometers and wells greater than 50 feet deep.

Labor Category	U&C Rate/Hr	Hours	Amount	Comments
Principal	\$138.06		\$0	
Sr. Professional	\$112.96		\$0	
Project Manager	\$112.96	2	\$226	
Staff Professional	\$94.13	10	\$941	Coord & set up PO
Field Professional	\$81.58		\$0	
Field Technician	\$62.76	60	\$3,766	Abandon shallow water table wells
Drafter	\$69.03	2	\$138	
Administration #1	\$43.93	2	\$88	Set up PO

Subtotal: \$5,159  
 Bentonite & Field Equipment: \$4,539  
 Subcontractor Costs (Stevens 2/17/20 quote): \$18,975  
**Total Task Cost: \$28,673**

Bentonite	Unit	Rate	Qty	Amount	
Cetco Med Chips	50 lb. bag	\$10.25	73	\$748	ESP Supply 1/22/2020
				\$41	WI Sales Taxes (5.5%)
				\$250	Shipping
			Subtotal:	\$1,039	

Equipment	Amount
Dumpster - Delivery & Pickup	\$500
Bob-Cat Tread Fork Lift (Rental)	\$2,000
Pick-Up truck (Rental)	\$750
Misc (gas, supplies)	\$250
Subtotal:	\$3,500

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 12 - DECOMMISSION REMEDIATION SYSTEMS

**Scope** - See task title above.

**Assumptions** - Includes decommissioning and/or removal of blowers, pumps, and aboveground piping. Does not include abandonment of SVE or GW recovery wells, which are included as part of Task #11.

Description	WDNR U&C Activity Code	Unit	WDNR U&C Unit Rate	Qty <sup>(1)</sup>	Amount
Mob/Demob - Rem Sys Shutdown	SSD15	Site	\$520.91	2	\$1,042
Permanent Rem Sys Shutdown	SSD05	Site	\$1,128.33	2	\$2,257
<b>Total Task Cost:</b>					<b>\$3,298</b>

**Subcontractor Costs**

No subcontractor costs.

FOOTNOTE:

(1) Based on the relatively large site size, WDNR's 2020 Usual & Customary unit rates for this task were multiplied by two.

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 13 - MISCELLANEOUS CORRESPONDENCE

**Scope** - Miscellaneous correspondence between consultant, WRR, and WDNR regarding remediation systems operations and sampling.

**Assumptions** - The miscellaneous costs do not include correspondence covered in other tasks included with the February 2020 cost estimates.

<b>Labor Category</b>	<b>U&amp;C Rate/Hr</b>	<b>Hours</b>	<b>Amount</b>
Principal	\$138.06		\$0
Sr. Professional	\$112.96	10	\$1,130
Project Manager	\$112.96	12	\$1,356
Staff Professional	\$94.13	8	\$753
Field Professional	\$81.58	8	\$653
Field Technician	\$62.76		\$0
Drafter	\$69.03	10	\$690
Administration #1	\$43.93	20	\$879
<b>Annual Task Cost:</b>			<b>\$5,460</b>

**Subcontractor Costs**

No subcontractor costs.

WRR ENVIRONMENTAL SERVICES, INC.  
EAU CLAIRE, WISCONSIN

TASK 14 - PRIVATE WELL SAMPLING (2020 THROUGH 2031)

**Private Well Sampling - 2020 through 2026**

**Scope:** Collect GW samples from PW-11 and PW-16 annually during Spring GW sampling events.

Description	WDNR U&C Activity Code	Unit	Unit Rate	Qty	Amount
Mob/Demob <sup>(1)</sup>	GS25	Event	\$690.92	0	\$0.00
Sample Collection	GS05	Well	\$74.62	2	\$149.24
VOC Analysis	ALS Unit Rates	Sample	\$45.00	2	\$90.00
<b>Annual Task Cost (2020-2026):</b>					<b>\$239.24</b>

**Private Well Sampling - 2027 through 2031**

**Scope -** Collect annual water samples from PW-11 and PW-16 in 2027 through 2031; send letter report to PW owners and WDNR.

Labor Category	U&C Rate/Hr	Hours	Amount
Principal	\$138.06		\$0
Sr. Professional	\$112.96		\$0
Project Manager	\$112.96	5	\$565
Staff Professional	\$94.13	5	\$471
Field Professional	\$81.58	5	\$408
Field Technician	\$62.76	10	\$628
Drafter	\$69.03		\$0
Administration #1	\$43.93	5	\$220
Subtotal:			\$2,291

**Laboratory Analysis - ALS 2020 Unit Rates**

Assumes 2 water samples/year analyzed for VOCs at \$45/sample \$90  
**Present value annual task cost amount (2027-2031): \$2,381**