#### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation 625 Broadway, 12th Floor, Albany, New York 12233-7011 P: (518) 402-9706 | F: (518) 402-9020 www.dec.ny.gov

December 20, 2019

Mr. David Hiss Arcadis CE, Inc. 855 Route 146, Suite 210 Clifton Park, NY 12065

RE:

WA Amendment Approval Letter

Contract/WA No.: D007618-7.3

Site Name: Vestal Water Supply (Site 1-1)

Site No.: 704009A

Work Element: RSO/Site Management

Dear Mr. Hiss:

The New York State Department of Environmental Conservation's Division of Environmental Remediation (DER) hereby approves the enclosed Scope of Work (Schedule 1) and related Budget (Schedule 2.11s) for the above referenced work assignment (WA), increasing the present budget by \$58,689 for a total not to exceed amount of \$1,090,724.

Your firm may now submit a request for reimbursement for work completed to date under this WA, in accordance with the contract requirements.

If you have any questions regarding the WA, please contact the Project Manager, Payson Long, by phone at (518) 402-9813 or email at <a href="mailto:payson.long@dec.ny.gov">payson.long@dec.ny.gov</a>.

Sincerely,

David Gardner

Chief

Contracts and Payments Section
Bureau of Program Management
Division of Environmental Remediation

Enclosure



#### David.Hiss@arcadis.com ec:

- M. Ryan
- G. Heitzman
- T. Bennett
- D. Gardner
- L. Lewis, CM
- M. Cruden
- J. Dyber
- P. Long, PM K. Diligent
- G. DeMarco
- L. Rios
- M/WBE Unit



Ms. Lisa M. Lewis
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation
Bureau of Program Management
625 Broadway, 12th Floor
Albany, NY 12233-7012

Arcadis CE, Inc.
855 Route 146
Suite 210
Clifton Park
New York 12065
Tel 518 250 7300
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Subject:

Amended Schedule 2.11s and Scope of Work Remedial Site Optimization/Site Management Vestal Water Supply (Site 1-1) 605 Vestal Parkway West, Vestal, New York Site No. 704009A, Contract No. D007618-7.3

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October 31, 2019

Contact

Daniel J. Loewenstein

Phone:

518-250-7302

Email:

Daniel.Loewenstein@arcadis.

Our ref

00266401.0000

Dear Ms. Lewis:

Please find enclosed the amended Schedule 1, the Schedule 2.11 series of budget tables, the Work Assignment (WA) Package Checklist and the Minority and Women-owned Business Enterprises (M/WBE)-Equal Opportunity Employer (EEO) Utilization Plan for the referenced Amendment to the Vestal Water Supply (Site 1-1) WA presenting Arcadis CE, Inc.'s (Arcadis') comprehensive scope of services and budget for Remedial Site Optimization/Site Management services. These revised documents amend the previously submitted Schedule 2.11s to include work associated with changes to the scope requested by NYSDEC's Project Manager to include work completed to date and groundwater sampling and operations and maintenance activities proposed to be completed in 2020. These amended services are described more fully in the Schedule 1, and the budgetary estimate for their completion is included in the Schedule 2.11s.

The total proposed project budget is now \$1,090,724, an increase of \$58,689 from the previously approved budget. Tasks 1, 2, 5, and 6 are completed and Tasks 3 and 4 will continue through February 2020.

We appreciate this opportunity to assist the NYSDEC on this project. Please contact me at (518) 250-7302 or Daniel.Loewenstein@arcadis.com if you have any questions concerning this submittal.

Sincerely,

Arcadis CE, Inc.

Danie J. Loewenstein, P.E., BCEE

Senior Vice President

Copies:

Danielle Wilkens, NYSDEC

Payson Long, NYSDEC Project Manager

Andrew Vitolins, P.G. — Arcadis

David Hiss, P.E. —Arcadis

#### Enclosures:

- Scope of Work (Schedule 1)
- Budget Pages (Schedule 2.11 series of budget tables)
- Subcontractor Certification
- Work Assignment Package Checklist
- · MIWBE-EEO Utilization Plan

# Schedule 1

Scope of Work

#### Schedule 1 Comprehensive Scope of Work WA D-007618-7.2 Vestal Water Supply – NYSDEC Site # 704009A

#### Task 1 - Scoping

Arcadis CE, Inc. (Arcadis) developed a Comprehensive Scope of Work and Estimated Budget, which address the design of elements of the proposed remedy, as described in the budget estimate of the July 19, 2012 Work Assignment (WA) Issuance/Notice to Proceed Correspondence for the site.

Based upon the information contained in the WA, information obtained during scoping discussions with the NYSDEC's Project Manager, and data acquired during the procurement of subcontractor quotations, Arcadis has prepared the Comprehensive Scope of Work, contained herein, and the Work Assignment Estimated Budget, included as Schedule 2, for implementing the proposed remedial site optimization and site management activities. Scoping occurred during the months of July and August 2012. Costs for conducting the scoping are proposed to be invoiced to the NYSDEC for payment during New York State's Fiscal Year (FY) 2012.

Amendment 1 – No changes to original scope. Amendment 2 – No changes to original scope. Amendment 3 – No changes to original scope.

#### Task 2 - Site Management Plan (SMP)

Arcadis will review and revise the existing Site Management Plan (SMP) for the site, as outlined in the budget estimate of the July 19, 2012 WA Issuance/Notice to Proceed Correspondence and identified in scoping discussions with the NYSDEC. The revised SMP will be developed with the latest NYSDEC template upon completion of Remedial System Optimization (RSO) (Task 6). The SMP will address requirements to be implemented, as necessary, during future construction or development. The SMP will also identify institutional controls to manage the future use of site groundwater to require compliance with the approved site management plan and will require annual certifications from property owner(s), submitted to the NYSDEC, that the institutional controls and engineering controls remain in place.

It is anticipated that the SMP work will be conducted during the period January 2015 through October 2015. Based on this schedule, the costs for Task 3 will be incurred and invoiced to the NYSDEC during New York State FY 2015.

Amendment 1 – No changes to original scope.

Amendment 2 – Preparation of the SMP was delayed due to work associated with the Remedial System Optimization (RSO). The SMP will be prepared between April and September 2018. Based on revised schedule, the cost for Task 3 will be incurred and invoiced to the NYSDEC during New York State FY 2018.

*Amendment 3* – No changes to Task 2.

#### Task 3 – Operation and Maintenance (O&M)

Arcadis will maintain the continuous operation of the groundwater treatment plants at the Vestal Water Supply Site by subcontracting with a contractor familiar with the site and the groundwater treatment system. For the purposes of this Work Assignment, we have assumed 24 months of operation due to a planned shutdown of the system. The work to be completed will include, but will not be limited to, monitoring treatment plant operations; treatment plant maintenance; collection of monthly influent/effluent treatment plant samples; treatment plant repairs (as approved); quarterly well rehabilitation/maintenance; and submittal of required reports.

Arcadis will arrange for the repair/replacement of damaged groundwater monitoring well protective casings and install protective bollards at one location (well 4009-6) to reduce the potential for future damage.

Based on discussions with the NYSDEC PM, Arcadis has also provided estimates for the following Well 1-1A treatment plant repair/inspection activities:

- Inspection of the air stripper tower to assess the tower condition, performance, and internal packing material.
- Evaluation of corrosion issues in Well 1-1A, including the existing corrosion protection system.
- Replacement of the treatment plant effluent discharge line from the clear well to the flood management area outfall.
- Upgrades to the treatment plant instrumentation and controls.

During the implementation of the RSO (Task 6), the treatment plant will be shut down for approximately one year. It is assumed that no sub-contractor O&M services will be performed at the plant during this period. However, Arcadis will continue monthly site inspections to assess building security; confirm utilities (heat) are functioning and arrange for grounds maintenance (i.e. mowing).

It is anticipated that the O&M work will be conducted during the period October 2012 through October 2015. Based on this schedule, the costs for Task 3 will be incurred and invoiced to the NYSDEC during New York State FY 2012 through 2015.

Amendment 1 – The treatment plant was shut down in 2014 as part of the RSO. Upon the completion of the RSO, it was decided that additional operation of the system was not

required and, at the direction of the NYSDEC, Arcadis developed and submitted a Feasibility Study summarizing potential remedial alternatives for the site groundwater.

In addition, at the request of the NYSDEC, Arcadis staff abandoned the 8-inch bypass discharge pipe from the Well 1-1 building that passed through the adjacent flood control levee on the Susquehanna River. This task was conducted in 2016 and included the development of a work plan for approval by the NYSDEC Division of Water and the US Army Corps of Engineers, disconnection of the piping from the treatment building and Susquehanna River discharge, the in-place abandonment of the discharge line and appurtenances, and documentation/reporting.

Routine O&M activities conducted in 2015 and 2016 included monthly site checks, monthly sampling of the Town of Vestal Supply Wells 1-2A and 1-3, and general site maintenance. These O&M activities will continue through January 2018.

Amendment 2 – Routine O&M activities will continue through February 2019.

Amendment 3 – In April 2018, 1,1,1-TCA was detected at an estimated concentration of 0.29 J ug/L in Well 1-3 pre-treatment sample. As part of the RSO contingency plan and per the request of the NYSDEC, Arcadis has added the post-treatment sample from Well 1-3 to the routine O&M activities since May 2018. The routine O&M activities and the post treatment sample from Well 1-3 will continue through February 2020. At the request of the NYSDEC, samples collected during the October 2019 Vestal Water Supply monthly monitoring event will be analyzed by TestAmerica for perfluorinated compounds (PFCs) by method ISO 25101 and United States Environmental Protection Agency (USEPA) method 8270 SIM for 1,4-Dioxane, respectively. The PFCs and 1,4-Dioxane results will be submitted to a data validator for preparation of a Data Usability Summary Report (DUSR).

#### Task 4 - Monitoring and Reporting

Groundwater samples will be collected on a five-quarter sampling schedule. However, during the RSO (Task 6), groundwater samples will be collected quarterly. Groundwater samples will be collected from approximately 30 new and existing monitoring wells and shipped to an analytical laboratory for analysis of volatile organic compounds (VOCs) by USEPA Method 8260. It is assumed that analytical data will not be validated by a third party.

Arcadis will measure depth to water in each well prior to each groundwater sampling event. Groundwater samples will be collected from each of the new on-site monitoring wells no sooner than one week after well development has been completed. Groundwater samples will be collected using passive diffusion bags (PDBs) and/or low-flow sampling techniques.

An annual summary report will be prepared following the five-quarter monitoring events. The report will summarize O&M and groundwater sampling activities and results, discuss

the effectiveness and protectiveness of the remedy, and present recommendations. Arcadis will subcontract with a surveyor to survey the location and elevation of new (installed under Task 6) existing, and repaired groundwater monitoring wells to the nearest 0.01-foot vertically and 0.1-foot horizontally, referenced to the North American Datum (NAVD) of 1988 and North American Datum (NAD) of 1983.

It is anticipated that the Task 4 activities will be conducted during the period October 2012 through October 2015. Based on this schedule, the costs for Task 4 will be incurred and invoiced to the NYSDEC during New York State FY 2012 through 2015.

Amendment 1 – The quarterly RSO monitoring and reporting activities were extended into 2016 and will continue through 2017, with the reporting for the fourth quarter of 2017 in January 2018. At the request of the NYSDEC, the 2<sup>nd</sup> Quarter 2017 groundwater monitoring event will be conducted using low-flow purging and sampling techniques at all monitored wells so that samples may also be analyzed for PFCs and 1,4-dioxane. In addition, to evaluate increases in benzene concentrations noted in the 2016 sampling results, three additional wells will be sampled using PDBs in the first and second quarter of 2017. Samples from seven additional monitoring wells will be sampled using low-flow techniques in addition to PDB sampling during the 3<sup>rd</sup> Quarter of 2017. This will be done to evaluate the geochemical characteristics of the groundwater and to evaluate the comparability of the PDB samples in the area of increased benzene groundwater concentrations.

**Amendment 2** – Quarterly groundwater monitoring will continue through fourth quarter 2018 using PDBs and analysis of VOCs only. Fourth quarter 2018 reporting will occur in in January/February 2019.

*Amendment 3-* Three additional groundwater monitoring events will be conducted.

#### Task 5 – Periodic Review Report

Arcadis will prepare two annual Periodic Review Reports (PRRs) for submittal to the NYSDEC in 2014 and 2015 in accordance with NYSDEC guidance. The report will:

- Summarize the site history;
- Evaluate the remedy;
- Provide a cost estimate for further investigations or corrective measures; and
- Provide recommendations for future site activities.

It is anticipated that the Task 5 activities will be conducted during the period November 2013 through August 2015. Based on this schedule, the costs for Task 5 will be incurred and invoiced to the NYSDEC during New York State FY 2013 through 2015.

Amendment 1 – At the request of the NYSDEC, Arcadis will prepare and submit an update to the PRR in 2017.

*Amendment 2* – No changes to Task 5.

*Amendment 3* – No changes to Task 5.

#### Task 6 – Remedial System Optimization (RSO)

A RSO will be conducted to evaluate the efficiency, effectiveness, and cost of the existing environmental remedies that have been put in place at the Vestal Water Supply Site. This evaluation will be based on information obtained from previous studies conducted at the Site, review of a 2012 Conceptual Model prepared by Lockheed Martin, performance of the remedial systems currently in place, sampling of soil and groundwater samples, and observing the impacts on the groundwater quality following the shutdown of the Well 1-1A groundwater treatment plant.

This RSO will require sampling of groundwater to evaluate the nature and extent of contamination. To facilitate this, Arcadis will subcontract with a drilling firm to install monitoring wells using sonic drilling methods. The drilling and sampling scope of work for this project includes the following:

- Advance soil cores at eight locations to a maximum depth ranging from 70 to 150 feet below ground surface (bgs).
- Collect continuous soil core sleeve samples down to and extending just into the water table at approximately 10 to 20 feet bgs.
- Collect up to two soil samples per boring and ship to an analytical laboratory for analysis of Target Compound List (TCL) volatile organic compounds (VOCs).
- Install six 2-inch diameter polyvinyl chloride (PVC) monitoring wells with five to 10 foot screens.
- Install two sets of nested monitoring wells, each consisting of up to two, 2-inch diameter PVC wells with five to 10 foot screens, in one borehole.
- Develop each well by surging and purging.
- Perform a slug test at each monitoring well.
- Complete each monitoring well with a stick-up protective casing.
- Place soil cuttings and recovered soil not sent for laboratory analysis into UN-approved 55-gallon drums and stage on site.
- Construct a decontamination pad, decontaminate all drilling equipment, and containerize all decontamination fluids, as well as development water, in UN-approved 55-gallon drums.

As part of the RSO, the Well 1-1A groundwater treatment plant will be shut down for approximately one year. Following the shutdown of the Well 1-1A groundwater

treatment system, groundwater samples will be collected on a bi-monthly basis from the "Sentinel Wells" identified in the Draft RSO Work Plan (Arcadis, 2012) and analyzed for VOCs by USEPA Method 8260.

Arcadis will prepare quarterly RSO letter reports detailing the sampling activities and summarizing the analytical results after the completion of each groundwater monitoring event. The reports will include summary data tables, a potentiometric map, field purge logs, and laboratory analytical data sheets. The first quarterly report will also include a summary of drilling, well installation, and surveying activities, while the results from the final quarterly report will be included in the Remedial System Optimization/Focused Feasibility Study (RSO/FFS) Report.

A RSO/FFS Report will be prepared to provide a summary of all field activities, geologic and hydrogeologic data, analytical results, provide a summary of progress toward cleanup goals, and present recommendations for improvements, if required. Based on the RSO findings, a minimum of three remedial alternatives will be presented either to supplement and/or replace the existing remedy.

Arcadis will present to the NYSDEC alternatives that could improve the effectiveness of the current system and/or replace the current system.

It is anticipated that the RSO activities will be conducted during the period October 2012 through October 2015. Based on this schedule, the costs for Task 6 will be incurred and invoiced to the NYSDEC during New York State FY 2012 through 2015.

Amendment 1 – The RSO monitoring and reporting activities were extended into 2016 and will continue to the end of 2017, with final reporting in January 2018. Costs for the extended RSO monitoring and reporting are captured in Task 4 of Amendment 1.

*Amendment 2* – No changes to Task 6.

*Amendment 3* – No changes to Task 6.

#### **SCHEDULE SUMMARY**

The updated schedule for the project is presented below:

Task	Start Date	<b>Anticipated End Date</b>
1 Scoping	July 2012	August 2012
2 Site Management Plan	January 2015	October 2018
3 Operation and Maintenance	October 2012	February 2020
4 Monitoring and Reporting	October 2012	February 2020
5 Periodic Review Report	November 2013	January 2018
6 Remedial System Optimization	October 2012	January 2018

# Schedule 2.11

**Budget Pages** 

### SUMMARY OF WORK ASSIGNMENT PRICE

D007618-7.3 Vestal Water Supply

1. Direct Salary Costs [Schedule 2.10(a) and 2.11(b)]

\$200,894

2. Indirect Costs [Schedule 2.10(g)] (1.722)

\$345,939

3. Direct Non-Salary Costs [Schedule 2.10(b, c), and 2.11(c)]

\$106,142

#### 4. Subcontract Costs:

	Cost-Plus-Fixed-Fee Subcontracts [Schedule 2.10(e) and 2.11(d)]		
			Subcontractor
	Name of Subcontractor	Services To Be Performed	Price
	A. YEC, Inc.	Services	\$6,422
A.	Subtotal Cost-plus-fixed-fee Subcontracts		\$6,422

Unit Price Subcontracts [Schedule 2.10(f) and 2.11(e)]		
Name of Subcontractor	Services To Be Performed	Subcontractor Price
A. Laboratory - TestAmerica	Analytical - Soil & GW	\$73,814
B. Data Validation - DVS (WBE)	Data Validation	\$571
C. Sonic Drilling - Stearns	Drilling/Well Installation	\$119,602
D. Field Support - Precision (MBE)	Field Support	\$2,292
E. Plant Operation - ECI (MBE)	O&M	\$124,504
F. IDW Disposal - Veolia	IDW Disposal	\$2,138
G. Geophysical - Diversified Geophysics	Utility Clearance	\$3,825
H. Geophysical - Underground Services	Utility Clearance	\$850
I. Corrosion - PCA Engineering	Corrosion Evaluation	\$2,610
J. Well Development - Subsurface Tech	Well Development	\$29,746
K. Well Repairs - Aztech (WBE)	Well Repairs	\$4,412
Total Unit Price Subcontracts		\$364.365

4C. Subcontract Management Fee

\$17,747

4D. Total Subcontract Costs (lines 4A+4B+4C)

\$388,534

5. Fixed Fee [Schedule 2.10(h)]

\$49,215

6. Total Work Assignment Price (lines 1+2+3+4D+5)

\$1,090,724

# Schedule 2.11(a) Supplement for Amendments Summary of Work Assignment Price Vestal Water Supply / 704009A / D007618-7.3

		Existing Price	Amendment	Revised Price
1) Direct Salary Costs (Schedule 2.10(a) and 2	2.11(b))	\$181,242	\$19,651	\$200,894
2) Indirect Costs (Schedule 2.10(g))		\$312,099	\$33,840	\$345,939
3) Direct Non-Salary Costs (Schedule 2.10(b)(	(c), and 2.11(c))	\$109,192	-\$3,050	\$106,142
4) Subcontract Costs				
Cost-Plus-Fixed-Fee Subcontracts (Schedul	le 2.10(e) and 2.11(d))			
Name of Subcontractor	Services Performed			
i) YEC, Inc.	Services	\$6,422	\$0	\$6,422
A) Total Cost-Plus-Fixed-Fee Subcontracts		\$6,422	\$0	\$6,422
• Unit Price Subcontracts (Schedule 2.10(f) a	and 2.11(e))			
Name of Subcontractor	Services Performed			
i) Laboratory - TestAmerica	Analytical - Soil & GW	\$70,563	\$3,251	\$73,814
ii) Data Validation - DVS (WBE)	Data Validation	\$218	\$353	\$571
iii) Sonic Drilling - Stearns	Drilling/Well Installation	\$119,741	-\$138	\$119,602
iv) Field Support - Precision (MBE)	Field Support	\$2,504	-\$212	\$2,292
v) Plant Operation - ECI (MBE)	O&M	\$124,504	\$0	\$124,504
vi) IDW Disposal - Veolia	IDW Disposal	\$2,122	\$16	\$2,138
vii) Geophysical - Diversified Geophysics	Utility Clearance	\$3,825	\$0	\$3,825
viii) Geophysical - Underground Services	Utility Clearance	\$850	\$0	\$850
ix) Corrosion - PCA Engineering	Corrosion Evaluation	\$2,610	\$0	\$2,610
x) Well Development - Subsurface Tech	Well Development	\$29,746	\$0	\$29,746
xi) Well Repairs - Aztech (WBE)	Well Repairs	\$4,412	\$0	\$4,412
B) Total Unit Price Subcontracts		\$361,094	\$3,270	\$364,365
C) Subcontract Management Fee		\$17,584	\$163	\$17,747
D) Total Subcontract Costs (lines 4A + 4B	+ 4C)	\$385,101	\$3,433	\$388,534
5) Fixed Fee (Schedule 2.10(h))		\$44,401	\$4,814	\$49,215
6) Total Work Assignment Price (Lines 1 + 2 +	+ 3 + 4D + 5)	\$1,032,035	\$58,689	\$1,090,724

Footnote: 2.10 Schedules refer to Contract Schedules

2.11 Schedules to Schedule 2 forms

Total Work Assignment Price and Total Tasks would be the same.

Page 1 of 2

5/10/2012

# Schedule 2.11(a) Supplement for Amendments Vestal Water Supply / 704009A / D007618-7.3

Task Number/Name	Existing Price	Amendment	<b>Revised Price</b>
1 Scoping	\$3,691	-\$47	\$3,644
2 Site Management Plan	\$9,975	-\$9,975	\$0
3 Operation and Maintenance	\$291,249	-\$4,057	\$287,192
4 Monitoring and Reporting	\$326,334	\$74,119	\$400,453
5 Periodic Review Report	\$0	\$0	\$0
6 Remedial System Optimization	\$400,786	-\$1,352	\$399,434
			_
Total Tasks	\$1,032,035	\$58,689	\$1,090,724

								Luboi III		uugete	_								Total	
Labor Classification	I.	Х		VIII		VII		VI		V		IV		Ш		II		1	Hours	Total Costs
Average 2012 Rate	\$72	2.55	\$	71.64	\$6	51.55	\$	49.90	\$:	39.98	\$	34.38	Ş	31.03	\$2	27.09	9	\$22.70		
Year: 2012	Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours			
Task 1 - Direct Labor	0	0.00	0	0.00	5	307.75	0	0.00	0	0.00	0	0.00	2	62.06	19	514.71	0	0.00	26	\$884.52
- Administrative	0	0.00	0	0.00	2	123.10	0	0.00	0	0.00	0	0.00	1	31.03	7	189.63	0	0.00	10	\$343.76
Task 2 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Task 3 - Direct Labor	0	0.00	0	0.00	3	184.65	0	0.00	0	0.00	0	0.00	0	0.00	15	406.35	6	136.20	24	\$727.20
- Administrative	0	0.00	0	0.00	1	61.55	0	0.00	0	0.00	0	0.00	0	0.00	2	54.18	0	0.00	3	\$115.73
Task 4 - Direct Labor	0	0.00	0	0.00	5	307.75	0	0.00	0	0.00	0	0.00	6	186.18	47	1,273.23	26	590.20	84	\$2,357.36
- Administrative	0	0.00	0	0.00	3	184.65	0	0.00	0	0.00	0	0.00	1	31.03	1	27.09	0	0.00	5	\$242.77
Subtotal Hours	0		0		19		0		0		0		10		91		32		152	
Subtotal Cost		\$0.00		\$0.00		\$1,169.45		\$0.00		\$0.00		\$0.00		\$310.30		\$2,465.19		\$726.40		\$4,671.34
Labor Classification	I.	х		VIII		VII		VI		V		IV		III		II		ı	Total Hours	Total Costs
Average 2013 Rate	\$67	7.72	\$	67.72	\$6	52.85	\$	50.96	\$4	10.83	\$	35.11	Ş	31.69	\$2	27.66	ç	23.18		
Year: 2013	Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours			
Task 1 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Task 2 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Task 3 - Direct Labor	0	0.00	0	0.00	9	565.65	0	0.00	0	0.00	0	0.00	147	4,658.43	53	1,465.98	72	1,668.96	281	\$8,359.02
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Task 4 - Direct Labor	0	0.00	0	0.00	1	62.85	0	0.00	0	0.00	0	0.00	15	475.35	39	1,078.74	126	2,920.68	181	\$4,537.62
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Task 5 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00		0.00		0.00	C	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Task 6 - Direct Labor	0	0.00	0	0.00	32	2,011.20	0	0.00	1	40.83	0	0.00	119	3,771.11	112	3,097.92	167	3,871.06	431	\$12,792.12
- Administrative	0	0.00	0	0.00	3	188.55	0	0.00	0	0.00	0	0.00	2	63.38	0	0.00	0	0.00	5	\$251.93
Subtotal Hours	0		0		45		0		1		0		283		204		365		898	
Subtotal Cost		\$0.00		\$0.00		\$2,828.25		\$0.00		\$40.83		\$0.00		\$8,968.27		\$5,642.64		\$8,460.70		\$25,940.69

							Jireci	Labor H	ours b	uagete	a									
Labor Classification		X		VIII		VII		VI		V		IV		III		II		1	Total Hours	Total Costs
Average 2014 Rate	\$67	7.72	\$	67.72	\$6	53.78	\$	51.70	\$-	41.43	\$	35.62	\$	32.15	\$2	28.07	\$	23.52		
Year: 2014	Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours			
Task 1 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 2 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 3 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	8	224.56	3	70.56	11	\$295.12
- Administrative	0	0.00	0	0.00	1	63.78	0	0.00	0	0.00	0	0.00	0	0.00	1	28.07	0	0.00	2	\$91.85
Task 4 - Direct Labor	0	0.00	0	0.00	0	0.00	1	51.70	1	41.43	6	213.72	50	1,607.50	33	926.31	582	13,688.64	673	\$16,529.30
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	35.62	1	32.15	0	0.00	0	0.00	2	\$67.77
Task 5 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 6 - Direct Labor	1	67.72	0	0.00	37	2,359.86	21	1,085.70	0	0.00	2	71.24	215	6,912.25	185	5,192.95	674	15,852.48	1135	\$31,542.20
- Administrative	0	0.00	0	0.00	7	446.46	0	0.00	0	0.00	0	0.00	3	96.45	0	0.00	0	0.00	10	\$542.91
Subtotal Hours	1		0		45		22		1		9		269		227		1259		1833	
Subtotal Cost		\$67.72		\$0.00		\$2,870.10		\$1,137.40		\$41.43		\$320.58		\$8,648.35		\$6,371.89		\$29,611.68		\$49,069.15
Labor Classification	ı	X		VIII		VII		VI		V		IV		Ш		II		ı	Total Hours	Total Costs
Average 2015 Rate	\$69	9.08	\$	69.08	\$6	53.97	\$	51.86	\$-	41.55	\$	35.73	\$	32.25	\$2	28.15	\$	23.59		
Year: 2015	Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours			
Task 1 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 2 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 3 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	28.15	7	165.13	8	\$193.28
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 4 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	1	41.55	1	35.73	0	0.00	1	28.15	327	7,713.93	330	\$7,819.36
- Administrative	0	0.00	0	0.00	1	63.97	0	0.00	0	0.00	0	0.00	0	0.00	4	112.60	1	23.59	6	\$200.16
Task 5 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 6 - Direct Labor	0	0.00	23	1,588.84	64	4,094.08	290	15,039.40	18	747.90	27	964.71	26	838.50	88	2,477.20	15	353.85	551	\$26,104.48
- Administrative	0	0.00	0	0.00	6	383.82	0	0.00	4	166.20	0	0.00	7	225.75	0	0.00	0	0.00	17	\$775.77
Subtotal Hours	0		23		71		290		23		28		33		94		350		912	
Subtotal Cost		\$0.00		\$1,588.84		\$4,541.87		\$15,039.40		\$955.65		\$1,000.44		\$1,064.25		\$2,646.10		\$8,256.50		\$35,093.05

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Labor Classification	ı	x		VIII		VII		VI		V		IV		Ш		П		1	Total Hours	Total Costs
Average 2016 Rate	\$70	0.46		\$70.46	\$	64.44	\$	52.24	\$4	11.86	\$	35.99	Ç	\$32.48	\$2	8.36	\$	23.76		
Year: 2016	Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours			
Task 1 - Direct Labor	0	0.00	C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	C	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 2 - Direct Labor	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 3 - Direct Labor	0	0.00	(	0.00	0	0.00	2	104.48	0	0.00	58	2,087.42	0	0.00	3	85.08	112	2,661.12	175	\$4,938.10
- Administrative	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	28.36	0	0.00	1	\$28.36
Task 4 - Direct Labor	0	0.00	(	0.00	5	322.20	4	208.96	0	0.00	13	467.87	0	0.00	77	2,183.72	242	5,749.92	341	\$8,932.67
- Administrative	0	0.00	(	0.00	5	322.20	0	0.00	0	0.00	0	0.00	0	0.00	1	28.36	10	237.60	16	\$588.16
Task 5 - Direct Labor	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 6 - Direct Labor	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Subtotal Hours	0		0		10		6		0		71		0		82		364		533	
Subtotal Cost		\$0.00		\$0.00		\$644.40		\$313.44		\$0.00		\$2,555.29		\$0.00		\$2,325.52		\$8,648.64		\$14,487.29
Labor Classification	ı	х		VIII		VII		VI		V		IV		III		II		1	Total Hours	Total Costs
Average 2017 Rate	\$73	3.31		\$73.31	\$	65.79	\$	53.34	\$4	12.73	\$	36.75	9	\$33.17	\$2	8.95	\$	24.26		
Year: 2017	Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours			
Task 1 - Direct Labor	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 2 - Direct Labor	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 3 - Direct Labor	0	0.00	(	0.00	0	0.00	2	106.68	0	0.00	8	294.00	11	364.87	0	0.00	50	1,213.00	71	\$1,978.55
- Administrative	0	0.00	(	0.00	0	0.00	2	106.68	0	0.00	0	0.00	0	0.00	0	0.00	2	48.52	4	\$155.20
Task 4 - Direct Labor	0	0.00	(	0.00	22	1,447.38	0	0.00	22	940.06	114	4,189.50	106	3,516.02	38	1,100.10	527	12,785.02	829	\$23,978.08
- Administrative	0	0.00	(	0.00	3	197.37	0	0.00	1	42.73	0	0.00	2	66.34	0	0.00	3	72.78	9	\$379.22
Task 5 - Direct Labor	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 6 - Direct Labor	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	(	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Subtotal Hours	0		0		25		4		23		122		119		38		582		913	
Subtotal Cost		\$0.00		\$0.00		\$1,644.75		\$213.36		\$982.79		\$4,483.50		\$3,947.23		\$1,100.10		\$14,119.32		\$26,491.05

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Labor Classification	ı	Х		VIII		VII		VI		V		IV		III		П		1	Total Hours	Total Costs
Average 2018 Rate	\$77	7.79	\$	77.77	\$6	56.82	\$	54.17	\$4	43.40	\$	37.32	\$	33.68	\$2	29.41	\$	24.64		
Year: 2018	Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours			
Task 1 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 2 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 3 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	33.68	4	117.64	47	1,158.08	52	\$1,309.40
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	37.32	0	0.00	1	29.41	1	24.64	3	\$91.37
Task 4 - Direct Labor	0	0.00	5	388.85	4	267.28	0	0.00	7	303.80	10	373.20	300	10,104.00	102	2,999.82	441	10,866.24	869	\$25,303.19
- Administrative	0	0.00	0	0.00	1	66.82	0	0.00	3	130.20	0	0.00	0	0.00	0	0.00	1	24.64	5	\$221.66
Task 5 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 6 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Subtotal Hours	0		5		5		0		10		11		301		107		490		929	
Subtotal Cost		\$0.00		\$388.85		\$334.10		\$0.00		\$434.00		\$410.52		\$10,137.68		\$3,146.87		\$12,073.60		\$26,925.62
Labor Classification	ı	Х		VIII		VII		VI		V		IV		Ш		II		ı	Total Hours	Total Costs
Average 2019 Rate	\$80	0.14	\$	79.01	\$6	57.88	\$	55.03	\$4	44.09	\$	37.92	\$	34.22	\$2	29.87	\$	25.03		
Year: 2019	Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours		Hours			
Task 1 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 2 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 3 - Direct Labor	0	0.00	4	316.04	0	0.00	0	0.00	0	0.00	20	758.40	0	0.00	0	0.00	125	3,128.75	149	\$4,203.19
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	25.03	1	\$25.03
Task 4 - Direct Labor	0	0.00	7	553.07	2	135.76	0	0.00	0	0.00	13	492.96	112	3,832.64	139	4,151.93	164	4,104.92	437	\$13,271.28
- Administrative	0	0.00	1	79.01	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	25.03	2	\$104.04
Task 5 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Task 6 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	\$0.00
Subtotal Hours	0		12		2		0		0		33		112		139		291		589	
Subtotal Cost		\$0.00		\$948.12		\$135.76		\$0.00		\$0.00		\$1,251.36		\$3,832.64		\$4,151.93		\$7,283.73		\$17,603.54

Labor Classification		X		VIII		VII		VI		v		IV		Ш		II			Total Hours	Total Costs
Average 2020 Rate		2.54		81.38		59.92	\$	56.68	Ś.	15.41	¢	39.06	d	35.25	\$3				110415	Total costs
Year: 2020	Hours	2.54	Hours	01.30	Hours	33.32	Hours	30.00	Hours	15.41	Hours	33.00	Hours	33.23	Hours	70.77	Hours	,23.76		
Task 1 - Direct Labor	0	0.00		0.00		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
- Administrative	0	0.00		0.00		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Task 2 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Task 3 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Task 4 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	7	215.39	11	283.58	18	\$498.97
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2	61.54	2	51.56	4	\$113.10
Task 5 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Task 6 - Direct Labor	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
- Administrative	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	C	\$0.00
Subtotal Hours	0		0		0		0		0		0		0		9		13		22	
Subtotal Cost		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$276.93		\$335.14		\$612.07
Total Administrative	0	0.00	1	79.01	33	2,102.27	2	106.68	8	339.13	2	72.94	17	546.13	20	559.24	22	533.39	105	4,338.79
Total All Hours		1		40		222		322		58		274		1127		991		3746		6781
Total All Cost		\$67.72		\$2,925.81		\$14,168.68		\$16,703.60		\$2,454.70		\$10,021.69		\$36,908.72		\$28,127.17		\$89,515.71		\$200,893.80

#### **Schedule 2.11 (c)**

# **DIRECT NON-SALARY COSTS** (Includes Equipment and Consumables)

D007618-7.3 Vestal Water Supply

		Maximum	Estimated	
		Reimbursement	Number	Estimated
	Item	Rate	of Units	Cost
<b>A</b> )	Non-Salary Costs			
2)	Mail and Shipping	At Cost	At Cost	\$1,373.35
5)	Communication	At Cost	At Cost	\$1,690.47
<b>B</b> )	<b>Equipment and Consumables</b>			
1	Miscellaneous Supplies	\$1,000.00 Lump Sum	1	\$1,000.00
2	PPE Level D	\$10.00 /man - day	117 /man - day	\$1,170.00
3	NYSEG Utilities	\$556.73 /month	55 months	\$30,620.15
4	Passive Diffusion Bag	\$28.50 Each	204 bags	\$5,814.00
5	Photoionization Detector	\$130.00 /week	16 weeks	\$2,080.00
8	Oil Water Interface Probe	\$30.00 /day	20 days	\$600.00
12	Water Quality Meter	\$300.00 /week	44 weeks	\$13,200.00
13	Photoionization Detector (miniRae 3000)	\$200.00 /week	25 weeks	\$5,000.00
14	200 Foot Water Level Probe	\$60.00 /week	30 weeks	\$1,800.00
15	Bladder Pump and MP10 Controller	\$473.00 /week	6 weeks	\$2,838.00
16	Pressure Transducers	\$585.00 /month/unit	8 transducers	\$4,680.00
C)	Miscellaneous (Meals, Lodging, Mileage	, LVE)		
1	Mileage	\$0.580 /mile	27,213 miles	\$15,783.54
2	Tolls	At Cost	At Cost	\$4,364.86
3	Per diem plus Tax (8%)	\$166.000 /day	58 days	\$9,628.00
4	· LVE	\$1.00 /person/ field hour	4,500 hours	\$4,500.00
TO	TAL			\$106,142

#### Schedule 2.11 (d)

# SUMMARY OF COST-PLUS-FIXED-FEE SUBCONTRACTORS D007618-7.3

Vestal Water Supply

	Item	Services To Be Performed			ontract rice	
Cos	st		Task 1	Task 2	Task 3	Total
1.	YEC, Inc.	Services	\$0.00	\$0.00	\$6,422.12	\$6,422.12
	SUBTOTAL		\$0.00	\$0.00	\$6,422.12	\$6,422.12
Ma	inagement Fee					
1.	YEC, Inc.	Services	\$0.00	\$0.00	\$0.00	\$0.00
	MANAGEMENT FEE	SUBTOTAL	\$0.00	\$0.00	\$0.00	\$0.00
	TOTAL		\$0.00	\$0.00	\$6,422.12	\$6,422.12

# Schedule 2.11 (d-1) Detailed Breakdown of Cost-Plus-Fixed-Fee Subcontract Vestal Water Supply (Site 1-1) D007618-7.\$3

#### Services to be Performed

**Subcontract Price** 

Site survey

\$6,422.12

#### A) Direct Salary Costs

Professional Responsibility Level	Labor Classification	Ave. Reimbursement Rate (\$/Hr.)	Max. Reimbursement Rate (\$/Hr.)	Est. No. of Hours	Total Est Direct Salary Cost (Ave. Reimb. Rate x Est. # of Hrs.)
Principal/Chief Engineer/Geologist/Scientist	VIII	67.72	67.72		\$0.00
Senior Geologist/Scientist/ Engineer/Lic. Surveyor	VI	55.00	55.00	10	\$550.00
Senior Geologist/Scientist/ Engineer/Lic. Surveyor	V	50.00	50.00		\$0.00
Senior Geologist/Scientist/ Engineer/Technician	IV	39.65	40.00	. 4	\$158.60
Staff Geologist/Scientist/ Engineer/CAD Operator/Sen. Technician	, III	33.00	35.00	22	\$726.00
Staff Geologist/Scientist/ Engineer/Sen. Technician	II	26.26	28.48		\$0.00
Staff Geologist/Scientist/ Engineer/Technician	I	21.21	22.00	24	\$509.04
		CPI Inc	rease (Apr 2012-De	c 2014 2.27%)	\$44.12

Total Direct Salary Costs: \$1,987.76

Footnotes:

The labor rate averages and maximums shall be adjusted by a rate equal to the increase in the CPI index CUURA101SAO-"All Urban Consumers-New York-Northern N.J.-Long Island" for the previous year. This index is published by the U.S. Department of Labor's Bureau of Labor Statistics. The adjustment will be calculated every January and will be effective for subsequent work assignment billing and budgeting purposes.

2) The maximum annual escalation is limited to 5%.

3) Reimbursement will be limited to the lesser of either the individual's actual hourly rate or the maximum rate for each labor category.

4) Reimbursement will be limited to the maximum reimbursement rate for the professional responsibility level of the actual work performed.

Only those labor classifications indicated with an asterisk will be entitled to overtime.

Reimbursement for technical time of principals, owners, and officers will be limited to the maximum reimbursement rate of that category, the actual hourly labor rate paid, or the State M-6 rate, whichever is lower.

7) Maximum reimbursement rates may be exceeded for work assignment activities that are under the jurisdiction of the Schedule of Prevailing Wage Rates set by the New York State Department of Labor.

#### B) Indirect Costs

Indirect costs shall be paid based on a percentage of direct salary costs incurred which shall not exceed a maximum of  $\underline{140}$ % or the actual rate calculated in accordance with 48 CFR Federal Acquisition Regulation, whichever is lower.

Indirect Costs: \$2,782.86

#### C) Maximum Reimbursement Rates for Direct Non-Salary Costs

#### **Max Reimbursement Rate**

Item	(Specify Unit)	Est. No. of Units	<b>Total Est. Cost</b>
Mileage	0.555	326	180.93
Tolls	1.25	2	2.50
Lodging	92	2	184.00
Per Diem	46	2	92.00
Survey Equip Rental	65	2	130.00
CAD Equip Rental	15	4	60.00
GPS Tie In			525.00
	\$1,174.43		

#### D) Fixed Fee

The fixed fee is: 10% of total direct and indirect salary costs

Fixed Fee: \$477.06

**Total Budget:** \$6,422.12

#### **Schedule 2.11 (e)**

#### SUMMARY OF UNIT PRICE SUBCONTRACTORS D007618-7.3 Vestal Water Supply

	Item	Services To Be Performed											Total Including  Management
			Task 3	Task 4	Task 5	Task 6	Total	Task 3	Task 4	Task 5	Task 6	Total	Fee
1.	Laboratory - TestAmerica	Analytical - Soil & GW	\$5,690.79	\$50,219.94	\$0.00	\$17,903.06	\$73,813.79	\$284.54	\$2,511.00	\$0.00	\$895.15	\$3,690.69	\$77,504.48
2.	Data Validation - DVS (WBE)	Data Validation	\$350.00	\$221.36	\$0.00	\$0.00	\$571.36	\$17.50	\$11.07	\$0.00	\$0.00	\$28.57	\$599.93
3.	Sonic Drilling - Stearns	Drilling/Well Installation	\$0.00	\$0.00	\$0.00	\$119,602.44	\$119,602.44	\$0.00	\$0.00	\$0.00	\$5,980.12	\$5,980.12	\$125,582.56
4.	Field Support - Precision (MBE)	Field Support	\$0.00	\$0.00	\$0.00	\$2,291.87	\$2,291.87	\$0.00	\$0.00	\$0.00	\$114.59	\$114.59	\$2,406.46
5.	Plant Operation - ECI (MBE)	O&M	\$124,504.00	\$0.00	\$0.00	\$0.00	\$124,504.00	\$6,225.20	\$0.00	\$0.00	\$0.00	\$6,225.20	\$130,729.20
6.	IDW Disposal - Veolia	IDW Disposal	\$0.00	\$0.00	\$0.00	\$2,138.40	\$2,138.40	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,138.40
7.	Geophysical - Diversified Geophysics	Utility Clearance	\$0.00	\$0.00	\$0.00	\$3,825.00	\$3,825.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,825.00
8.	Geophysical - Underground Services	Utility Clearance	\$850.00	\$0.00	\$0.00	\$0.00	\$850.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$850.00
9.	Corrosion - PCA Engineering	Corrosion Evaluation	\$0.00	\$0.00	\$0.00	\$2,610.00	\$2,610.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,610.00
10.	Well Development - Subsurface Tech	Well Development	\$29,746.00	\$0.00	\$0.00	\$0.00	\$29,746.00	\$1,487.30	\$0.00	\$0.00	\$0.00	\$1,487.30	\$31,233.30
11.	Well Repairs - Aztech (WBE)	Well Repairs	\$4,411.80	\$0.00	\$0.00	\$0.00	\$4,411.80	\$220.59	\$0.00	\$0.00	\$0.00	\$220.59	\$4,632.39
	TOTAL		\$165,552.59	\$50,441.30	\$0.00	\$148,370.77	\$364,364.66	\$8,235.13	\$2,522.07	\$0.00	\$6,989.87	\$17,747.06	\$382,111.73

#### Table 2.11 (e-1)

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### Laboratory - TestAmerica

Task	Subtask	Parameter	Method	Matrix	No. of Tests	Unit Rate	Total
Task 3							
	Groundwater Sampling	TCL VOCs	8260B	AQ	55	\$57	\$3,135.00
	Groundwater Sampling	1,4-dioxane	8270 SIM	AQ	7	\$92	\$644.00
	Groundwater Sampling	PFAS ISO	25101	AQ	7	\$235	\$1,645.00
	Groundwater Sampling	Pesticides/ PCBs	8081A/8082	S	0		\$0.00
	CPI increase	•				8.51%	\$266.79
SUBTOTA	AL - Task 3						\$5,690.79
Task 4							
	Groundwater Sampling	TCL VOCs	8260B	AQ	570	\$57	\$32,490.00
	Groundwater Sampling	Six Perfluorinated Alkyl Substances	Modified 537	AQ	40	\$260	\$10,400.00
	Groundwater Sampling	1,4-dioxane	8260C SIM	AQ	40	\$92	\$3,680.00
	CPI increase					8.51%	\$3,649.94
SUBTOTA	AL - Task 4						\$50,219.94
Task 6							
	Groundwater Sampling	TCL VOCs	8260B	AQ	153	\$57	\$8,721.00
	Groundwater Sampling	TAL Metals	6010B/7470A/7471A	AQ	12	\$66	\$792.00
	Soil/Sediment Sampling	TCL VOCs	8260B	S	28	\$57	\$1,596.00
	Soil/Sediment Sampling	TCLP	8260/8270/8080/815 0/TAL Metals	S	11	\$490	\$5,390.00
	CPI increase	<u> </u>	•			8.51%	\$1,404.06
SUBTOTA	AL - Task 6						\$17,903.06
Managem	ent Fee (Includes All Tasks - If App	licable)					\$3,690.69
	OR ALL TASKS (INCLUDING MA						\$77,504.48

#### **Table 2.11 (e-2)**

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### Data Validation - DVS (WBE)

Item	Unit Cost	No. of Items	<b>Total Cost</b>
Task 3			
Data Validation - PFAS-groundwater	\$25.00 /sample	7 samples	\$175.00
Data Validation - 1,4-dioxane	\$25.00 /sample	7 samples	\$175.00
CPI Increase	0.00%	\$0.00	
SUTOTAL - Task 3		•	\$350.00
MANAGEMENT FEE - TASK 3	\$17.50		
TOTAL Inc.MANAGEMENT FEE - Task 3			\$367.50
Task 4			
Data Validation - Soil/Sediment TCL VOCs	\$17.00 /sample	10 samples	\$170.00
Data Validation - GW/SW TCL VOCs	\$17.00 /sample	1 samples	\$17.00
Data Validation - GW/SW TAL Metals	\$17.00 /sample	1 samples	\$17.00
CPI Increase	•	8.51%	\$17.36
SUTOTAL - Task 4		•	\$221.36
MANAGEMENT FEE - TASK 4	\$11.07		
TOTAL Inc.MANAGEMENT FEE - Task 4	\$232.43		
TOTAL FOR ALL TASKS (INCLUDING MANA	GEMENT FEE)		\$599.93

#### **Table 2.11 (e-3)**

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### **Sonic Drilling - Stearns**

Item	Unit Cost	No. of Items	<b>Total Cost</b>
Task 6			
39 Bedrock 4-Inch Water Rotary 0-50 feet in depth	/lf	O If	\$0.00
Mobilization/ Demobilization	\$5,100.00 Lump Sum	1	\$5,100.00
Sonic Drilling (includes all materials, equipment, rigs, support vehicles, and labor necessary for drilling)	\$5,300.00 /Day	15	\$79,500.00
2-inch Monitoring Well Installation	\$6.00 /foot	1488	\$8,928.00
Well Development (includes all labor, equipment, and supplies)	\$365.00 /Hour	17	\$6,205.00
4-inch stick-up protective casings	\$139.00 Lump Sum	10	\$1,390.00
6-inch stick-up protective casings	\$219.00 Lump Sum	2	\$438.00
Temporary Decontamination Pad Construction (furnished & installed at staging areas)	\$250.00 Lump Sum	2	\$500.00
Pressure Washer/Steam Cleaner	\$50.00 /Day	15	\$750.00
Per diem - Drilling Crew	\$357.00 Crew/Day	16	\$5,712.00
Provide, fill, and stage UN-Approved Drums	\$37.00 Each	60	\$2,220.00
SUBTOTAL - Task 6			\$110,743.00
Sales Tax	8%		\$8,859.44
TOTAL - Task 6			\$119,602.44
MANAGEMENT FEE (TASK 6)			\$5,980.12
TOTAL FOR ALL TASKS (INCLUDING MANAGEMENT	FEE)		\$125,582.56

#### **Table 2.11 (e-4)**

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### Field Support - Precision (MBE)

Item	<b>Unit Cost</b>	No. of Items	<b>Total Cost</b>		
UN-Approved Drums	/ea.	0	\$0.00		
Task 6					
Mobilization/Demobilization	\$225.00 /event	1 events	\$225.00		
Mileage rate (Pickup Truck)	\$0.83 /mile	370 miles	\$307.10		
Technician Labor - 2015	\$49.00 /hour	24 hours	\$1,176.00		
Per diem (GSA perdiem)	\$138.00 /tech/day	3 tech/days	\$414.00		
SUBTOTAL - Task 6			\$2,122.10		
Sales Tax	8%		\$169.77		
TOTAL - Task 6			\$2,291.87		
MANAGEMENT FEE - TASK 6					
TOTAL Inc. Management Fee - Task 6					
TOTAL FOR ALL TASKS (INCLUDING MANAGEMENT FEE)					

#### **Table 2.11 (e-5)**

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### **Plant Operation - ECI (MBE)**

Item	Unit Cost	No. of Items	<b>Total Cost</b>
Task 3			
Option Year 1	\$7,720.00 /month	10	\$77,200.00
Option Year 2	\$7,884.00 /month	6	\$47,304.00
SUTOTAL - Task 3			\$124,504.00
MANAGEMENT FEE (TASK 3)			\$6,225.20
TOTAL - Task 3 (INCLUDING M	\$130,729.20		

#### **Table 2.11 (e-6)**

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### IDW Disposal - Veolia

Item	Unit Cost	No. of Items	Total Cost
TOTAL - Task 3			\$0.00
Task 6			
Mobilization/ Demobilization	\$165.00 /Lump Sum	2	\$330.00
Transportation and Disposal of Non-Hazardous Soil	\$75.00 /Drum	15	\$1,125.00
Transportation and Disposal of Non-Hazardous Water	\$75.00 /Drum	7	\$525.00
SUBTOTAL - Task 6			\$1,980.00
Sales Tax	8%	1	\$158.40
TOTAL - Task 6			\$2,138.40

#### **Table 2.11 (e-7)**

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### **Geophysical - Diversified Geophysics**

Item	Unit Cost	No. of Items	Total Cost		
Task 6					
Mobilization/Demobilization	\$625.00 Lump Sum	1	\$625.00		
Provide all necessary crew and equipment to conduct geophysical survey and prepare site maps.	\$3,200.00 Lump Sum	1	\$3,200.00		
SUBTOTAL - Task 6 \$3,825.00					
TOTAL - Task 6			\$3,825.00		

#### **Table 2.11 (e-8)**

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### **Geophysical - Underground Services**

Item	Unit Cost	No. of Items	Total Cost
Task 3			
Utility Clearance Survey	\$850.00 /LS	1	\$850.00
SUBTOTAL - Task 3	•	•	\$850.00
TOTAL - Task 3			\$850.00

#### **Table 2.11 (e-9)**

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### **Corrosion - PCA Engineering**

Item	Unit Cost	No. of Items	Total Cost
Task 6			
Corrosion Control Consulting and Testing	Lump Sum	1	\$2,610.00
TOTAL INCLUDING MANAGEMENT FEE	\$2,610.00		

#### **Table 2.11 (e-10)**

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### **Well Development - Subsurface Tech**

Item	Unit Cost		No. of Items		<b>Total Cost</b>
Task 3					
AquaGard Well Maintence 2013	\$4,242.00	/injection	2	injections	\$8,484.00
AquaGard Well Maintence 2014	\$4,454.00	/injection	2	injections	\$8,908.00
AquaGard Well Maintence 2015	\$4,677.00	/injection	2	injections	\$9,354.00
Additional CO2	\$1,000.00	/ton	3	tons	\$3,000.00
SUBTOTAL - Task 3					\$29,746.00
TOTAL ALL TASKS					\$29,746.00
MANAGEMENT FEE (ALL TASKS)					\$1,487.30
TOTAL INCLUDING MANAGEMENT FEE					\$31,233.30

#### **Table 2.11 (e-11)**

#### DETAILED BREAKDOWN OF UNIT PRICE SUBCONTRACTORS

D007618-7.3 Vestal Water Supply

#### Well Repairs - Aztech (WBE)

Item	Unit Cost	No. of Items	<b>Total Cost</b>
Task 3			
Mobilization/ Demobilization	\$645.00 Lump Sum	2 Lump Sum	\$1,290.00
All labor, equipment and materials to replace a damaged 4-inch stick- up protective well casing with a new protective casing and concrete apron.	\$240.00 Lump Sum	2 Lump Sum	\$480.00
All labor, equipment and materials to replace damaged 6-inch stick-up protective well casing with a new protective casing and concrete apron.	\$265.00 Lump Sum	2 Lump Sum	\$530.00
All labor, equipment and materials to replace a damaged 8-inch flush- mount protective well casing with a new protective casing and concrete apron.	\$220.00 Lump Sum	1 Lump Sum	\$220.00
All labor, equipment and materials to replace a damaged 12-inch flush- mount protective well casing with a new protective casing and concrete apron.	\$345.00 Lump Sum	2 Lump Sum	\$690.00
All labor, equipment and materials to Install a 4-inch steel, concrete filled bollard with concrete apron.	\$220.00 Lump Sum	2 Lump Sum	\$440.00
Provide, fill, and stage UN-Approved Drums	\$87.00 /each	5 /each	\$435.00
SUTOTAL - Task 3			\$4,085.00
Sales Tax	8%		\$326.80
TOTAL - Task 3	-	-	\$4,411.80
MANAGEMENT FEE (TASK 3)			\$220.59
TOTAL - Task 3 (INCLUDING MANAGEMENT FEE)			\$4,632.39

#### SCHEDULE 2.11 (f) - Summary MONTHLY COST CONTROL REPORT **SUMMARY OF FISCAL INFORMATION**

**ENGINEER:** Arcadis CE, Inc.

SUMMARY

CONTRACT #: PROJECT NAME:

D007618

NYSDEC TASK #/NAME: COMPLETE: 0%

WORK ASSIGNMENT #:

Vestal Water Supply 7.3

DATE PREPARED: 31-Oct-19

	A COSTS CLAIMED	B PAID	C TOTAL	D TOTAL COSTS	E ESTIMATED COSTS	F ESTIMATED TOTAL	G APPROVED	H ESTIMATED
EXPENDITURE CATEGORY	THIS PERIOD (CAP #n-month)	TO DATE (thru CAP #n-month)	DISALLOWED TO DATE	INCURRED TO DATE (A + B+ C)	TO COMPLETION (G-D)	WA PRICE (A+B+E)	BUDGET (Date)	UNDER/OVER (G-F)
1. DIRECT SALARY COST							\$200,894	
2. INDIRECT COST - 1.722							\$345,939	
3. SUBTOTAL: Direct and Indirect (1+1a)							\$546,833	
4. TRAVEL & SUBSISTENCE							\$29,776	
5. OTHER NON-SALARY COST							\$76,366	
6. SUBTOTAL: Direct							\$106,142	
Non-Salary Cost (4+5)								
7. SUBCONTRACTORS							\$388,534	
7a. Management Fee included above							\$17,747	
8. TOTAL WA COST (3+6+7)							\$1,041,509	
9. FIXED FEE - 9.0 %							\$49,215	
10. TOTAL WA PRICE (8+9)							\$1,090,724	

PROJECT MANAGER ENGINEER		DATE	
PROJECT MANAGER ENGINEER	·	DATE	

#### SCHEDULE 2.11 (f-1)

## MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION

D007618

 ENGINEER:
 Arcadis CE, Inc.
 CONTRACT #:

 NYSDEC TASK #/NAME:
 Task 1-Scoping
 PROJECT NAME:

ASK #/NAME: Task 1-Scoping PROJECT NAME: Vestal Water Supply COMPLETE: 0% WORK ASSIGNMENT #: 7.3

COMPLETE: 0% WORK ASSIGNMENT #: 7.3

DATE PREPARED: 31-Oct-19

DATE PREPARED:	31-Oct-19			-				
	Α	В	С	D	Е	F	G	Н
	COSTS CLAIMED	PAID	TOTAL	TOTAL COSTS	ESTIMATED COSTS	ESTIMATED TOTAL	APPROVED	ESTIMATED
EXPENDITURE	THIS PERIOD	TO DATE	DISALLOWED TO	INCURRED TO DATE	TO COMPLETION	WA PRICE	BUDGET	UNDER/OVER
CATEGORY	(CAP #n-month)	(thru CAP #n-month)	DATE	(A + B+ C)	(G-D)	(A+B+E)	(Date)	(G-F)
1. DIRECT SALARY COST							\$1,228	
2. INDIRECT COST - 1.722							\$2,115	
3. SUBTOTAL: Direct and Indirect (1+1a)							\$3,343	
4. TRAVEL & SUBSISTENCE							\$0	
5. OTHER NON-SALARY COST							\$0	
6. SUBTOTAL: Direct							\$0	
Non-Salary Cost (4+5)								
7. SUBCONTRACTORS							\$0	
7a. Management Fee included above							\$0	
8. TOTAL WA COST (3+6+7)							\$3,343	
9. FIXED FEE - 9.0 %							\$301	
10. TOTAL WA PRICE (8+9)							\$3,644	

PROJECT	MANAGER ENGINEER	 DATE	

#### SCHEDULE 2.11 (f-2)

#### MONTHLY COST CONTROL REPORT **SUMMARY OF FISCAL INFORMATION**

ENGINEER: Arcadis CE, Inc. NYSDEC TASK #/NAME: Task 2-Site Management Plan

CONTRACT #:

D007618

COMPLETE: 0%

PROJECT NAME: WORK ASSIGNMENT #: Vestal Water Supply 7.3

DATE PREPARED:

31-Oct-19

DATE PREPARED:	31-001-19							
	Α	В	С	D	E	F	G	Н
	COSTS CLAIMED	PAID	TOTAL	TOTAL COSTS	ESTIMATED COSTS	ESTIMATED TOTAL	APPROVED	ESTIMATED
EXPENDITURE	THIS PERIOD	TO DATE	DISALLOWED TO	INCURRED TO DATE	TO COMPLETION	WA PRICE	BUDGET	UNDER/OVER
CATEGORY	(CAP #n-month)	(thru CAP #n-month)	DATE	(A + B+ C)	(G-D)	(A+B+E)	(Date)	(G-F)
1. DIRECT SALARY COST							\$0	
2. INDIRECT COST - 1.722							\$0	
3. SUBTOTAL: Direct and Indirect (1+1a)							\$0	
4. TRAVEL & SUBSISTENCE							\$0	
5. OTHER NON-SALARY COST							\$0	
6. SUBTOTAL: Direct							\$0	
Non-Salary Cost (4+5)								
7. SUBCONTRACTORS							\$0	
7a. Management Fee included above							\$0	
8. TOTAL WA COST (3+6+7)							\$0	
9. FIXED FEE - 9.0 %							\$0	
10. TOTAL WA PRICE (8+9)			_		_	_	\$0	

PROJECT MANAGER ENGINEER	DATE	

#### SCHEDULE 2.11 (f-3)

## MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION

ENGINEER: Arcadis CE, Inc.

CONTRACT #:

D007618

NYSDEC TASK #/NAME: Task 3-Operation and Maintenance
COMPLETE: 0%

PROJECT NAME: WORK ASSIGNMENT #:

Vestal Water Supply 7.3

DATE PREPARED: 31-Oct-19

WORK

DATE PREPARED:	31-001-19							
	Α	В	С	D	E	F	G	Н
	COSTS CLAIMED	PAID	TOTAL	TOTAL COSTS	ESTIMATED COSTS	ESTIMATED TOTAL	APPROVED	ESTIMATED
EXPENDITURE	THIS PERIOD	TO DATE	DISALLOWED TO	INCURRED TO DATE	TO COMPLETION	WA PRICE	BUDGET	UNDER/OVER
CATEGORY	(CAP #n-month)	(thru CAP #n-month)	DATE	(A + B+ C)	(G-D)	(A+B+E)	(Date)	(G-F)
1. DIRECT SALARY COST							\$22,511	
2. INDIRECT COST - 1.722							\$38,765	
3. SUBTOTAL: Direct and Indirect (1+1a)							\$61,276	
4. TRAVEL & SUBSISTENCE							\$3,526	
5. OTHER NON-SALARY COST							\$36,665	
6. SUBTOTAL: Direct							\$40,191	
Non-Salary Cost (4+5)								
7. SUBCONTRACTORS							\$180,210	
7a. Management Fee included above							\$8,235	
8. TOTAL WA COST (3+6+7)							\$281,677	
9. FIXED FEE - 9.0 %							\$5,515	
10. TOTAL WA PRICE (8+9)							\$287,192	

PROJECT MANAGER ENGINEER	 DATE	
	· · · · · · · · · · · · · · · · · · ·	

#### SCHEDULE 2.11 (f-4)

#### MONTHLY COST CONTROL REPORT **SUMMARY OF FISCAL INFORMATION**

ENGINEER: Arcadis CE, Inc. NYSDEC TASK #/NAME: Task 4-Monitoring and Reporting CONTRACT #:

D007618

COMPLETE:

PROJECT NAME: WORK ASSIGNMENT #: Vestal Water Supply 7.3

31-Oct-19 DATE PREPARED.

DATE PREPARED:	31-Oct-19							
	Α	В	С	D	E	F	G	Н
	COSTS CLAIMED	PAID	TOTAL	TOTAL COSTS	ESTIMATED COSTS	ESTIMATED TOTAL	APPROVED	ESTIMATED
EXPENDITURE	THIS PERIOD	TO DATE	DISALLOWED TO	INCURRED TO DATE	TO COMPLETION	WA PRICE	BUDGET	UNDER/OVER
CATEGORY	(CAP #n-month)	(thru CAP #n-month)	DATE	(A + B+ C)	(G-D)	(A+B+E)	(Date)	(G-F)
1. DIRECT SALARY COST							\$105,145	
2. INDIRECT COST - 1.722							\$181,059	
3. SUBTOTAL: Direct and Indirect (1+1a)							\$286,204	
4. TRAVEL & SUBSISTENCE							\$10,561	
5. OTHER NON-SALARY COST							\$24,967	
6. SUBTOTAL: Direct							\$35,528	
Non-Salary Cost (4+5)								
7. SUBCONTRACTORS							\$52,963	
7a. Management Fee included above							\$2,522	
8. TOTAL WA COST (3+6+7)							\$374,695	
9. FIXED FEE - 9.0 %							\$25,758	
10. TOTAL WA PRICE (8+9)							\$400,453	

PROJECT	MANAGER ENGINEER	DATE

#### SCHEDULE 2.11 (f-5)

#### MONTHLY COST CONTROL REPORT **SUMMARY OF FISCAL INFORMATION**

**ENGINEER:** Arcadis CE, Inc. NYSDEC TASK #/NAME: Task 5-Periodic Review Report

CONTRACT #: PROJECT NAME:

D007618

COMPLETE:

WORK ASSIGNMENT #:

Vestal Water Supply 7.3

DATE PREPARED: 31-Oct-19

	А	В	С	D	E	F	G	Н
	COSTS CLAIMED	PAID	TOTAL	TOTAL COSTS	ESTIMATED COSTS	ESTIMATED TOTAL	APPROVED	ESTIMATED
EXPENDITURE	THIS PERIOD	TO DATE	DISALLOWED TO	INCURRED TO DATE	TO COMPLETION	WA PRICE	BUDGET	UNDER/OVER
CATEGORY	(CAP #n-month)	(thru CAP #n-month)	DATE	(A + B+ C)	(G-D)	(A+B+E)	(Date)	(G-F)
1. DIRECT SALARY COST							\$0	
2. INDIRECT COST - 1.722							\$0	
3. SUBTOTAL: Direct and Indirect (1+1a)							\$0	
4. TRAVEL & SUBSISTENCE							\$0	
5. OTHER NON-SALARY COST							\$0	
6. SUBTOTAL: Direct							\$0	
Non-Salary Cost (4+5)								
7. SUBCONTRACTORS							\$0	
7a. Management Fee included above							\$0	
8. TOTAL WA COST (3+6+7)							\$0	
9. FIXED FEE - 9.0 %							\$0	
10. TOTAL WA PRICE (8+9)							\$0	

PROJECT MANAGER ENGINEER	DATE	
	_	

#### SCHEDULE 2.11 (f-6)

## MONTHLY COST CONTROL REPORT SUMMARY OF FISCAL INFORMATION

D007618

Vestal Water Supply

 ENGINEER:
 Arcadis CE, Inc.
 CONTRACT #:

 NYSDEC TASK #/NAME: Task 6 - Remedial System Optimization
 PROJECT NAME:

COMPLETE: 0% WORK ASSIGNMENT #: 7.3

DATE PREPARED:	31-Oct-19							
	А	В	С	D	E	F	G	Н
	COSTS CLAIMED	PAID	TOTAL	TOTAL COSTS	ESTIMATED COSTS	ESTIMATED TOTAL	APPROVED	ESTIMATED
EXPENDITURE	THIS PERIOD	TO DATE	DISALLOWED TO	INCURRED TO DATE	TO COMPLETION	WA PRICE	BUDGET	UNDER/OVER
CATEGORY	(CAP #n-month)	(thru CAP #n-month)	DATE	(A + B+ C)	(G-D)	(A+B+E)	(Date)	(G-F)
1. DIRECT SALARY COST							\$72,009	
2. INDIRECT COST - 1.722							\$124,000	
3. SUBTOTAL: Billable Labor Cost (1+1a)							\$196,010	
4. TRAVEL & SUBSISTENCE							\$15,689	
5. OTHER NON-SALARY COST							\$14,734	
6. SUBTOTAL: Direct							\$30,423	
Non-Salary Cost (4+5)								
7. SUBCONTRACTORS							\$155,361	
7a. Management Fee included above							\$6,990	
8. TOTAL CONTRACT COST (3+6+7)							\$381,793	
9. FIXED FEE - 9.0 %							\$17,641	
10. TOTAL CONTRACT PRICE (8+9)							\$399,434	

PROJECT	MANAGER ENGINEER	DATE
		22

# SCHEDULE 2.11 (f) - Supplemental COST CONTROL REPORT FOR SUBCONTRACTS

**ENGINEER:** Arcadis CE, Inc.

NYSDEC TASK #/NAME: SUMMARY

COMPLETE:

SUMMARY CONTRACT #: D007618

0% PROJECT NAME: Vestal Water Supply

**DATE PREPARED:** 31-Oct-19 **WORK ASSIGNMENT #**: 7.3

	Α	В	C	D	F	F	G	н
SUBCONTRACTOR	SUBCONTRACTOR	SUBCONTRACTOR	TOTAL SUBCONTRACTOR	TOTAL COSTS	SUBCONTRACT	MNGT. FEE	Management	TOTAL
NAME	COSTS CLAIMED	COSTS PAID	COSTS DISALLOWED	INCURRED TO DATE	APPROVED	BUDGET	FEE	COSTS
2	THIS PERIOD	TO DATE	TO DATE	(A + B - C)	BUDGET	505021	PAID	TO DATE
Cost-Plus-Fixed-Fee: Subcontactors								
1. YEC, Inc.					\$6,422.12	\$0.00		
Services								
Subtotal - CPFF Subs:					\$6,422.12	\$0.00		
Unit Price Subcontactors								
<ol> <li>Laboratory - TestAmerica</li> </ol>					\$73,813.79	\$3,690.69		
Analytical - Soil & GW								
2. Data Validation - DVS (WBE)					\$571.36	\$28.57		
Data Validation								
3. Sonic Drilling - Stearns					\$119,602.44	\$5,980.12		
Drilling/Well Installation								
4. Field Support - Precision (MBE)					\$2,291.87	\$114.59		
Field Support								
5. Plant Operation - ECI (MBE)					\$124,504.00	\$6,225.20		
0&M					4	4		
6. IDW Disposal - Veolia					\$2,138.40	\$0.00		
IDW Disposal					4	4		
7. Geophysical - Diversified Geophysics					\$3,825.00	\$0.00		
Utility Clearance					4050.00	40.00		
8. Geophysical - Underground Services					\$850.00	\$0.00		
Utility Clearance					40.010.00	40.00		
9. Corrosion - PCA Engineering					\$2,610.00	\$0.00		
Corrosion Evaluation					620.746.00	64 407 26		
10. Well Development - Subsurface Tech					\$29,746.00	\$1,487.30		
Well Development					Ć4 411 0C	¢220.50		
11 Well Repairs - Aztech (WBE)					\$4,411.80	\$220.59		
Well Repairs					\$2C4.2C4.CC	617 747 OC		
Subtotal - Unit Price Subs:					\$364,364.66	\$17,747.06		
TOTAL					\$370,786.78	\$17,747.06		

PROJECT MANAGER ENGINEER	DATE	

- 1. Costs listed in Columns A, B, C, & D do not include any management fee costs.
- 2. Management fee is applicable to only properly procured, satisfactorily completed, M/WBE or unit price subcontracts over \$10,000.

#### SCHEDULE 2.11 (g)

# Vestal Water Supply (#D007618-7.3) MONTHLY COST CONTROL REPORT - SUMMARY OF LABOR HOURS Expended to Date/Estimated to Completion

**ENGINEER:** Arcadis CE, Inc.

NYSDEC TASK #/NAME: SUMMARY

COMPLETE: 0% PROJECT NAME: Vestal Water Supply

CONTRACT #:

D007618

DATE PREPARED: 31-Oct-19 WORK ASSIGNMENT #: 7.3

	NSPE																												To	otal 1	No.
	Labor Classification		IX			VIII			VII			VI			٧			IV			Ш			П			- 1		Dire	ect L	abor
Task #	Task Name	Exp.	/	Est.	Exp	. / ]	Est.	Exp	. /	Est.	Exp.	/ ]	Est.	Exp.	. /	Est.	Exp	. /	Est.	Exp	. /	Est.	Exp.	. /	Est.	Exp	. /	Est.	Hour	s Ex	p./Est.
Task 1	Scoping	0	/	0	0	/	0	0	/	7	0	/	0	0	/	0	0	/	0	0	/	3	0	/	26	0	/	0	0	/	36
Task 2	Site Management Plan	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0
Task 3	Operation and Maintenance	0	/	0	0	/	4	0	/	14	0	/	6	0	/	0	0	/	87	0	/	159	0	/	89	0	/	426	0	/	785
Task 4	Monitoring and Reporting	0	/	0	0	/	13	0	/	52	0	/	5	0	/	35	0	/	158	0	/	593	0	/	491	0	/	2,464	0	/	3,811
Task 5	Periodic Review Report	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0	0	/	0
Task 6	Remedial System Optimization	0	/	1	0	/	23	0	/	149	0	/ :	311	0	/	23	0	/	29	0	/	372	0	/	385	0	/	856	0	/	2,149
Total Ho	ours	0	/	1	0	/	40	0	/	222	0	/ :	322	0	/	58	0	/	274	0	/	1,127	0	/	991	0	/	3,746	0	/	6,781

# **Cost Backup Documentation**

From: Lewis, Lisa M (DEC)
To: Hiss, David

Cc: Long, Payson D (DEC); Vitolins, Andy; Mullins, Jasmine; Wyckoff, Jeremy; Denison, Amy

Subject: RE: Gladding Cordage - D007618-9 - Requested Emerging Contaminants Testing - Approval of TestAmerica and

DVS

**Date:** Wednesday, September 25, 2019 3:35:48 PM

Attachments: <u>image001.png</u>

Hi Dave-

#### For Gladding Cordage (D007618-9):

TestAmerica is approved to perform PFC analyses using method ISO 25101 for the cost of \$235 per sample. Estimated number of samples is ten (10) for a total cost of \$2,350.

In addition, Data Validation Services is approved to perform data validation of the (10) PFC samples for a cost of \$350.

It wasn't clear if 1,4-Dioxane analyses and validation were also needed. If so...

TestAmerica is approved to perform 1,4-Dioxane analyses using EPA method 8270 SIM for the cost of \$92 per sample. Estimated number of samples is ten (10) for a total cost of \$920.

In addition, Data Validation Services is approved to perform data validation of the (10) 1,4-Dioxane samples for a cost of \$70 (in conjunction with PFC validation and DUSR, minimum \$350 cost).

In regard to Vestal Water Supply (D007618-7), please include these new services/costs in a revised submission of Amendment 3. The continued but modified use of TestAmerica and DVS will be approved with the approval of the WA amendment. (And please be sure there is no CPI increase calculated on PFC and 1,4-Dioxane analyses/validation since none of these are contract items.)

Thanks, Lisa

#### Lisa M. Lewis

Environmental Program Specialist 2, Division of Environmental Remediation

New York State Department of Environmental Conservation 625 Broadway, Albany, NY 12233-7012

P: (518) 402-9601 | F: (518) 402-9722 | <u>lisa.lewis@dec.ny.gov</u>



**From:** Hiss, David <David.Hiss@arcadis.com> **Sent:** Tuesday, September 17, 2019 11:24 AM **To:** Lewis, Lisa M (DEC) lisa.lewis@dec.ny.gov>

**Cc:** Long, Payson D (DEC) <payson.long@dec.ny.gov>; Vitolins, Andy <Andy.Vitolins@arcadis.com>;

Mullins, Jasmine < Jasmine. Mullins@arcadis.com>; Wyckoff, Jeremy

<Jeremy.Wyckoff@arcadis.com>; Denison, Amy <Amy.Denison@arcadis.com>

 $\textbf{Subject:} \ \mathsf{Gladding} \ \mathsf{Cordage} \ \mathsf{-} \ \mathsf{D007618-7.3} \ \mathsf{and} \ \mathsf{Vestal} \ \mathsf{Water} \ \mathsf{Supply} \ \mathsf{-} \ \mathsf{D007618-9.3} \ \mathsf{-} \ \mathsf{Requested}$ 

**Emerging Contaminants Testing** 

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Lisa,

Please see the attached request for approval for laboratory and data validation services for the referenced projects to support testing requested by the NYSDEC.

Please contact me if you have any questions.

Have a great day!

Dave

Professional Engineer / PE-New York

Connect with us! www.arcadis.com | LinkedIn | Twitter | Facebook



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#### **MEMO**



Arcadis CE, Inc.

855 Route 146

New York 12065 Tel 518 250 7300

Fax 518 250 7301

Suite 210 Clifton Park

To: Copies:

Lisa Lewis (NYSDEC) Andy Vitolins (Arcadis)

Payson Long (NYSDEC)

From:

David Hiss, PE, BCEE

Date: Arcadis Project No.:

September 17, 2019 00266401.0000

00266406.0000

Subject:

Laboratory Services and Data Validation Services for Emerging Compounds Analysis

Vestal Water Supply Site, Vestal, NY WA D007618-7.3, Site Number 704009A Gladding Cordage Site, South Otselic, NY

WA D007618-9.3, Site Number 709009

The NYSDEC has requested that Arcadis CE, Inc. (Arcadis) analyze drinking water supply samples collected from the Vestal Water Supply and Gladding Cordage Sites for perfluourinated compounds (PFCs) (i.e., PFOA, PFOS) and 1,4-dioxane as part of the routine monthly sampling being conducted under the above-referenced Work Assignments.

Based on recent discussions with the NYSDEC project manager, we understand that wells within a half mile radius will be sampled for PFCs for drinking water and for 1,4-dioxane via the requested analytical methods ISO 25101 and United States Environmental Protection Agency (USEPA) method 8270 SIM, respectively. Under method ISO 25101, Con-Test, the current analytical laboratory for the Gladding Cordage site, can only analyze for the two of the requested PFCs. However, TestAmerica can analyze for six of the PFCs. Therefore, Arcadis is requesting authorization to utilize TestAmerica for these analyses due to the inability of the current laboratory to achieve the requested number of analytes through analytical method ISO 25101.

The remainder of the analyses will be conducted by the previously authorized standby laboratory for these Work Assignments. The estimated cost for the PFC analyses to be conducted by TestAmerica are listed below and within the attached quote.

PFC Cost per Sample: \$235

Number Samples per Site

10

This cost differs from the cost listed in the previously-approved work assignments due to the change in requested analytical method. The PFAS and 1,4-Dioxane results will be submitted to a newly-approved subcontract data validator on this work assignment for preparation of a Data Usability Summary Report (DUSR). We have attached a quote from Data Validation Services (DVS) for these services. Due to the minimum number of samples that need to be validated, the total validation cost is expected to be approximately \$350 per project.

Currently, it appears that sufficient budget capacity exists to complete the supplemental laboratory analyses and associated validation without needing to submit an amended 2.11 series of budget schedules. If necessary, we will prepare an amended Schedule 2.11 at a later date if we anticipate exceeding the existing approved budget amount for this work assignment.

Please let us know if you have any questions concerning this matter.

Thank you.



Tel: (716) 691-2600 Fax: (716) 691-7991 www.testamericainc.com

September 04, 2019

Jasmine Mullins ARCADIS U.S. Inc 855 Route 146 Suite 210 Clifton Park, NY 12065 jasmine.mullins@arcadis.com Tel: (518) 250-7308

Subject: Analytical Services Proposal - PFAS & 1,4 Dioxane Analysis

Eurofins TestAmerica Quotation Number 48020874

Dear Ms. Mullins:

We appreciate the opportunity to provide your company with a quotation for your PFAS & 1,4 Dioxane Analysis project. Eurofins TestAmerica has a unique combination of full service capabilities, technical expertise, local service options, and online resources necessary to ensure successful project outcomes.

At Eurofins TestAmerica, quality is the hallmark of our business. To ensure your project's data quality objectives are met, we offer experienced personnel who are trained and committed to completing your analytical project on time, a fully documented QA/QC program, and state-of-the-art laboratory equipment and facilities. In addition to being a full service laboratory, we are part of the nation's largest environmental laboratory network. This provides access to an unparalleled spectrum of capabilities and turnaround time options, all through a single point of contact. John Schove has been assigned as your Project Manager for this work and can be reached by phone at 716 504-9838 or via email at john.schove@testamericainc.com.

- **Total Access**: a web portal offering you customizable, real time access to data. With 24 hour access you can perform data trending, compare data to industry or project limits, track CoCs, invoices, reports and much more.
- Level IV Deliverables/Customizable EDDs: high resolution, text searchable reports, available in virtually any format.
- Extensive Experience: Project Managers with in-depth knowledge of regulatory protocols and procedures.
- **Nationwide Logistical Support**: bringing you an extensive courier network, service centers and shipping options throughout the U.S. and abroad.
- **PFAS, Dioxins/Furans, Air, Radiochemistry, IH** and other specialty analyses are offered alongside routine soil and water methods with seamless reports and consolidated EDDs.

The following quotation includes a detailed price breakdown, as well as any notes and clarifications pertaining to your project, and is subject to Eurofins TestAmerica's Standard Terms and Conditions, unless otherwise agreed upon in writing.

We thank you for choosing Eurofins TestAmerica, and we look forward to working with you on this project.

Sincerely,

Anthony Massa (315) 431-0171 Client Relations Manager anthony.massa@testamericainc.com

cc: Mike Movinski; John Schove

Issued on: 9/4/2019 Page 1 of 12

Prepared for:

Jasmine Mullins ARCADIS U.S. Inc 855 Route 146 Suite 210 Clifton Park, NY 12065 jasmine.mullins@arcadis.com

Tel: (518) 250-7308

Prepared by Massa, Anthony J

Date 9/4/2019 **Expiration Date** 12/3/2019

Est. Start Date

#### Project: PFAS & 1,4 Dioxane Analysis

Quote Number: 48020874 - 0

**Water Samples** TAT: 10\_Days (Business Days)

Matrix	Method	Test Description	Quantity	Unit	Extended
				Price	Price
Water	8270D SIM ID	1,4 Dioxane - non-potable analysis	1	\$ 92.00	\$ 92.00

#### **Water Samples** TAT: 15\_Days (Business Days) (to be analyzed by Burlington)

Matrix	Method	Test Description	Quantity	Unit Price	Extended Price
Water	25101:2009	PFAS - NY25101- Drinking Water Analysis-Analytes listed in the back of the quote	1	\$ 235.00	\$ 235.00
Water	537 (modified)	PFAS, Standard List (21 analytes) - non-potable analysis	1	\$ 235.00	\$ 235.00
		Total Water Samples		_	\$ 562.00

#### **Quote Other Charges**

Description	Quantity	Unit	Extended
		Price	Price
Safe and Environmentally Responsible Waste Management (per sample)	10	\$ 1.50	\$ 15.00
Deliverables - Level IV Report (No Charge)	1	\$ 0.00	\$ 0.00
PFAS Free Water / Gallon	0	\$ 20.00	\$ 0.00
Minimum Total Invoice per analytical receipt (for details see T&Cs)	0	\$ 150.00	\$ 0.00
Total Other Charge			\$15.00

**Total Other Charges** \$ 15.00 **Total Analysis Charges** \$ 562.00 **Grand Total for Quote 48020874** \$ 577.00

Page 2 of 12 Issued on: 9/4/2019

<sup>\*\*</sup>Quoted charges do not include sales tax. Applicable sales tax will be added to invoices where required by law.

Prepared for:

Jasmine Mullins ARCADIS U.S. Inc 855 Route 146 Suite 210 Clifton Park, NY 12065 jasmine.mullins@arcadis.com Tel: (518) 250-7308 Prepared by Massa, Anthony J

Date 9/4/2019 Expiration Date 12/3/2019

Est. Start Date

Project: PFAS & 1,4 Dioxane Analysis

Quote Number: 48020874 - 0

#### **PROJECT DETAILS**

Quote Comments Protocol: SW846, 4th Edition

Turnaround Time: 10 Business Days/15 Business Days - PFAS

Certification: NYSDOH

Unit rates include a digital copy (.pdf) of a Level IV Category B electronic data report with batch QA/QC.

Project specific QA/QC (MS, MSD, Trip Blanks, etc) are charged at unit rates.

This quotation is based on TestAmerica's standard detection and reporting limits. If project specific limits are required, please contact your Project Manager.

Expedited Turnaround Time: Expedited turnaround times may be available and must be pre-approved by the laboratory. Expedited turnaround delivery is contingent upon meeting the agreed upon delivery date/time and number of samples. Samples received after 11 AM will be considered received the next business day. Results will be provided via e-mail or TotalAccess by close of business in the lab's time zone unless another time has been agreed to in advance.

Expedited turnaround time surcharges for standard analyses are:

- 4-5 Business Days TAT = 10%
- 3 Business Days TAT = 50%
- 2 Business Days TAT = 75%
- 1 Business Day TAT = 100%

Different surcharges may apply for specialty analyses. These will be provided in your quotation. Weekend TAT can be arranged on a project-specific basis at an additional cost. Please contact your PM to inquire about availability and cost.

New York State only Certifies analytes PFOA & PFOS - those are included in the UCMR 3 and our standard list of 21

**Details - PFAS** 

#### Sample containers

Modified Method 537 requires two 250 ml HDPE containers.

These containers can be ordered through our project management group or picked up at a service center at no additional charge. If the bottles are shipped we request a week advance notice, otherwise you will be billed for the rush shipment. If you would like to pick up containers from one of our service centers please let us know.

#### Matrix Spike/Field QC Samples

Please note Method 537 requires a field reagent blank be collected at each site where field samples are collected.

With use of the Modified 537 method it is up to the client to determine which QA/QC they intend to include in their program. It is TestAmerica's recommendation that the FRBs are included at a minimum. If you are using equipment for the first time it is advisable that you

Issued on: 9/4/2019 Page 3 of 12

#### Prepared for:

Jasmine Mullins ARCADIS U.S. Inc 855 Route 146 Suite 210 Clifton Park, NY 12065 jasmine.mullins@arcadis.com Tel: (518) 250-7308 Prepared by Massa, Anthony J

Date 9/4/2019 Expiration Date 12/3/2019

Est. Start Date

## Project: PFAS & 1,4 Dioxane Analysis

#### Quote Number: 48020874 - 0

collect an equipment blank at that time.

Please note that with the use of an isotope dilution method, Modified 537, the inclusion of MS/MSDs is unnecessary.

If requested or submitted, any field reagent blanks, equipment blanks, trip blanks or MS/MSDs will be billed at the unit rate.

#### **Hold Times**

Please note the following hold times: Waters by *Modified* Method 537 is 14 days.

#### **Return Shipping**

Samples should be packed in a cooler, preserved with ice and shipped via Overnight shipping.

#### **AFFF Related Samples**

Due to the potential for high concentrations of PFASs in these samples, it is critical that the associated chain of custody and sample containers clearly state that these are AFFF related samples.

# Eurofins TestAmerica Business T&Cs

#### Confidentiality -

This quote has been prepared by TestAmerica Laboratories, Inc. dba Eurofins TestAmerica (Eurofins TestAmerica), solely for the use of the customer to whom it is addressed in evaluating Eurofins TestAmerica's qualifications and capabilities in connection with a particular project. The user of this document agrees by its acceptance to return it to Eurofins TestAmerica upon request and not to reproduce, copy, lend, or otherwise disclose its contents, directly or indirectly, and not to use it for any purpose other than that for which it was specifically provided. The user also agrees that where consultants or other outside parties are involved in the evaluation process, access to this document shall not be given to said parties unless those parties also specifically agree to these conditions. In the absence of signed acceptance, submittal of samples will indicate acceptance of this quotation.

#### **Terms and Conditions -**

This quotation is based solely upon Eurofins TestAmerica's standard product (routine QA/QC, detection limits, deliverables and standard turnaround times) and noted exceptions herein. The discounts incorporated into the pricing are based upon the sample quantity, test method, and schedule quoted. Any deviations may impact pricing and/or the acceptance of work. Final acceptance of this work is contingent upon a mutually agreed Sample Delivery Schedule. All sales are subject to Eurofins TestAmerica's Terms and Conditions unless alternative terms have been agreed to in writing. Submittal of samples will indicate acceptance of this quotation.

#### **Quote Expiration -**

Pricing listed in the proposal will expire **90 days** from the quote date unless the project is awarded/confirmed within that time period. Unless otherwise set forth in this quotation, Eurofins TestAmerica reserves the right to re-evaluate pricing for extended length projects on an annual basis.

#### SERWM -

A fee, notated as Safe and Environmentally Responsible Waste Management (SERWM), will be applied to all invoices for each sample processed by the laboratory.

Issued on: 9/4/2019 Page 4 of 12

#### Prepared for:

Jasmine Mullins ARCADIS U.S. Inc 855 Route 146 Suite 210 Clifton Park, NY 12065 jasmine.mullins@arcadis.com Tel: (518) 250-7308 Prepared by Massa, Anthony J

Date 9/4/2019 Expiration Date 12/3/2019

Est. Start Date

#### Project: PFAS & 1,4 Dioxane Analysis

#### Quote Number: 48020874 - 0

#### PROJECT SETUP

#### Field Sampling Products -

Eurofins TestAmerica can provide field sampling products upon request and these products are billable to the client at the time of shipment.

Field sampling products may include, but are not limited to:

- VOA sampling devices, preservation kits, ISM supplies, tubing and filters
- Industrial Hygiene media, surface sampling wipes, source sampling traps

The cost of the soil sampling devices is not included in the quoted rates for volatile analysis. Core Samplers

- 5 gram Core N' One and EnCore samplers are available at \$10 each (three required per sample).
- Disposable Core N' One T-Handles are available at \$15 each.
- Eurofins TestAmerica does not supply EnCore T-Handles.

Field Preservation

- TerraCore Kits (varied) guoted based on client required configurations
- Disposable Lock N' Load Handles are available at \$12 each.

If any sampling supplies for soil VOCs are requested, they will be included in the quote under Other Charges.

#### Coolers and Sampling Supplies -

- Sampling Supplies: Eurofins TestAmerica will provide sample containers and coolers to support the sampling of water and soil samples. Extra bottles may be provided (up to 10%) in case of breakage. Eurofins TestAmerica expects that samples and supplies will be returned to the lab, including empty coolers and a reasonable percentage of the projected sample load 70% or higher of the expected/quoted sample number. Coolers not received back by the projected deadline or as agreed with the PM may be charged at \$30 per cooler. Similarly, if the sample containers received as samples are less than 90% of the containers provided, the sample containers not received as samples will be charged at a flat rate of \$1 per container.
- Sample Container Shipping: The containers and preservatives required by the project shall be delivered via ground transportation. A minimum of 5 business days advance notice is required in order to achieve shipment by ground transportation. Supply shipments requiring priority delivery due to insufficient lead time for ground transportation shall be charged to the client at Eurofins TestAmerica's cost. Alternatively, Eurofins TestAmerica can ship the supplies via carrier of choice by the client using the client's shipping account.

Eurofins TestAmerica does not supply wet ice or blue ice for shipments. If shipping containers are not returned within 60 days, a charge for the containers will be billed at the current market rate. Please contact your PM for the current charges.

#### Courier Services and Sample Pick-Up -

Courier Services are offered by some Eurofins TestAmerica facilities. Where offered, the cost of the services will vary based on the distance traveled, the scope of the project being supported, and whether sufficient notice (typically 48 hours) is provided to facilitate efficient scheduling. If no details are described in this quotation and you are interested in learning more about courier options, please contact your Client Relations Manager or Project Manager to inquire about availability and cost.

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#### Prepared for:

Jasmine Mullins ARCADIS U.S. Inc 855 Route 146 Suite 210 Clifton Park, NY 12065 jasmine.mullins@arcadis.com Tel: (518) 250-7308 Prepared by Massa, Anthony J

Date 9/4/2019 Expiration Date 12/3/2019

Est. Start Date

#### Project: PFAS & 1,4 Dioxane Analysis

#### Quote Number: 48020874 - 0

#### Minimum Log-In Charges -

Eurofins TestAmerica's minimum charge is **\$150** for a group of samples received together for analysis. Our minimum invoice value is \$150.

#### QC Limit Disclaimer -

The laboratory's reporting limits, detection limits, and control limits are subject to change as these values are updated periodically to reflect analytical sensitivity and capability.

#### **Turnaround Time -**

 Quoted Turnaround Time - Data will be delivered at the proposed turnaround time in Business Days from Sample Receipt unless otherwise agreed upon. TAT begins the day the laboratory performing analyses receives the samples (day of lab receipt = day zero).

Samples received after 11 AM will be considered received the next business day.

<u>Expedited Turnaround Time</u>: Expedited turnaround times may be available and must be
pre-approved by the laboratory. Expedited turnaround delivery is contingent upon meeting
the agreed upon delivery date/time and number of samples. Samples received after 11 AM
will be considered received the next business day. Results will be provided via e-mail or
TotalAccess by close of business in the lab's time zone unless another time has been
agreed to in advance.

Expedited turnaround time surcharges for standard analyses are:

- 4-5 Business Days TAT = 10%
- 3 Business Days TAT = 50%
- 2 Business Days TAT = 75%
- 1 Business Day TAT = 100%

Different surcharges may apply for specialty analyses. These will be provided in your quotation. Weekend TAT can be arranged on a project-specific basis at an additional cost. Please contact your PM to inquire about availability and cost.

#### **PROJECT DELIVERABLES**

Eurofins TestAmerica will provide two analytical report formats, a final report in PDF format and a standard Eurofins TestAmerica EDD. Both electronic report formats will be delivered via email or web portal. If additional formats or retroactive deliverables are requested, costs of report generation will be billable. Charges will be based on labor and materials cost of report generation and data retrieval. Please contact your PM to inquire about availability and the price of additional deliverables.

- <u>Report Format</u>: Unless a level III or IV deliverable is specifically listed on the pricing page, this quotation includes delivery of a Level I or II report. Level III or IV reports are available at an additional charge.
- Electronic Data Deliverable Format: Eurofins TestAmerica has many EDD formats available to our clients including the most widely used commercial formats. Eurofins TestAmerica offers data using a standard EDD. Other EDD formats are available for a minimal cost of \$25 per format (if not included as part of the report options listed in the quotation). The development of EDD formats that are not already available, including modification to existing formats to fit client specific needs, can be provided for a fee starting at \$100. Additional fees will be estimated by the lab and approved by the client. Additional programming fees are billed at \$50/hour.

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#### PROJECT SPECIFICATIONS

#### Cancellation Fee -

A fee will be charged for cancellation of samples/analyses after a project is received in the laboratory. The fee will be based on the status of analysis at the time of cancellation in accordance with the following categories:

- Received 35%
- Prepped 50%
- Analyzed 95%

#### Changes in Scope and Work Revisions -

Project requirements must be agreed upon prior to sample receipt. Samples will be logged according to the chain of custody received with the samples. Changes after initiation of the project will be subject to additional charges, including labor time required to reset project, communicate changes to laboratory staff, and rework data. Turnaround time will be reset or rush surcharges will be assessed where applicable. Analyses added with less than 1/2 of the analytical hold time remaining will incur rush turnaround charges. Your project manager will evaluate project specific charges at the time a change order is received.

#### **Held Samples -**

- <u>Held samples not analyzed</u>: Samples submitted on hold will be billed at 35% of the analysis fee (minimum \$10/sample). If samples are later analyzed, the handling fee will be waived and only the analysis price will be charged. Samples taken off hold with less than 1/2 of the analytical hold time remaining may incur rush turnaround charges. Samples will be disposed of 30 days after the report for analyzed samples in the same job is issued, unless alternate archival arrangements are made in advance.
- Extracted/Prepped and Held samples: Samples submitted for prep and hold will be billed at 60% of the analysis fee for each prepped sample (minimum \$30/sample). Samples taken off hold with less than 1/2 of the analytical hold time remaining may incur rush turnaround charges. Samples will be disposed of 30 days after the report for analyzed samples in the same job is issued, unless alternate archival arrangements are made in advance.
- Extended archival of samples: Extended archival of samples (including held samples) may be available for a fee starting at \$2 per container per month (minimum \$10/sample). This fee will be billed in advance on a quarterly basis for every quarter after the standard sample retention time of 30 days after the report is issued. Fees for larger volumes, non-standard matrices or cold storage will be negotiated on a case-by-case basis. Please contact your PM to inquire about availability and pricing for samples that are sent to the lab and archived.

#### Matrix Spike/Spike Duplication (MS/MSD) Samples -

When MS/MSDs are not specifically requested, Eurofins TestAmerica will strive to perform the required QC using whatever sample is available but will not report the QC results unless the client requests it. The reporting of client requested MS/MSD results will be charged at applicable unit rates. If MS/MSDs are specifically required or requested, the client must provide additional sample volume.

#### **Multiple Dilutions Analyzed -**

Eurofins TestAmerica strives to analyze samples without dilution or with the minimum dilution required. Samples are diluted to bring the primary analyte within the calibration range of the

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Date 9/4/2019 Expiration Date 12/3/2019

Est. Start Date

#### Project: PFAS & 1,4 Dioxane Analysis

#### Quote Number: 48020874 - 0

instrument, to compensate for matrix co-extractives, or to prevent instrument contamination. Eurofins TestAmerica will report the analytical run containing the highest concentration component/analyte in the sample within the calibrated (quantifiable) range of the method. Analytical screening runs are not reported. If project specific data quality objectives require additional runs, analyses will be billable unless otherwise noted in this quote. Please contact your PM to inquire about the availability of this service for your project.

#### Sample Disposal -

Eurofins TestAmerica will dispose of non-hazardous samples, sample extracts and digestates 30 days after the final report is issued. Charges for disposal of non-routine or uniquely hazardous samples will be billed to the client. Alternatively, samples can be returned to the client for disposal. Cost of return shipping will be billable to the client.

#### Special Sample Handling Fees -

Unit prices assume that samples are a single-phase matrix and that analyses can be performed in accordance with the laboratory's standard analytical procedures. If additional handling is required, additional fees may apply. Examples of special handling include (but are not limited to):

- Matrices requiring additional dilutions or special clean up steps
- Multiphasic samples requiring separate preparations and/or analyses
- Particle size reduction or special sub-sampling procedures
- Extra disposal costs for unique waste streams

#### Trip Blanks -

Eurofins TestAmerica typically provides trip blanks with our sample kits containing volatile analysis. When samples are received at the laboratory with trip blanks, the lab will analyze, report and charge the unit rate for the analysis. Please add this sample to your chain of custody. If you do not want the trip blank analyzed, please note this on the COC.

#### ADDITIONAL BUSINESS TERMS AND CONDITIONS

#### **Environmental Management Fee**

If this fee is included in the Other Charges section of the pricing page, a fee equal to the listed percentage of the total invoice amount will be applied to all work done under this quotation. The Fee will appear as a separate line item on each invoice. In the absence of any other firm pricing agreements, your sending work to us under this quotation will signify your acceptance of responsibility for payment of the Fee.

#### Field Parameters -

pH, Temperature, and Dissolved Oxygen analyses, along with Residual Chlorine screening, are properly performed and treated in the field at the time of sample collection. Laboratory analysis may result in a holding time exceedance qualifier.

#### Network or Subcontract Labs -

- <u>Networking</u>: Eurofins TestAmerica reserves the right to perform the services at any laboratory in the Eurofins TestAmerica network, unless the Client has required a particular location for the work.
- <u>Subcontracting</u>: Eurofins TestAmerica reserves the right to subcontract services ordered
  by the Client to another laboratory or laboratories, if, in Eurofins TestAmerica's sole
  judgment, it is reasonably necessary, appropriate or advisable to do so. Eurofins
  TestAmerica will make every effort to notify the client prior to delivering samples to an
  out-of-network laboratory. Eurofins TestAmerica will in no way be liable for any

Issued on: 9/4/2019 Page 8 of 12

**Prepared for:** 

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Prepared by

Massa, Anthony J

Date 9/4/2019

**Expiration Date** 12/3/2019

Est. Start Date

Project: PFAS & 1,4 Dioxane Analysis

Quote Number: 48020874 - 0

subcontracted services (outside the Eurofins TestAmerica network) except for work performed at laboratories which have been audited and approved by Eurofins TestAmerica.

#### Price Surcharge Due To Sample Volume -

Unless dictated by contract, this quotation is based on the scope of work defined in the quote request. If the volume of samples submitted is less than 70% of the projected volume, a surcharge of 10% of the total project cost may be assessed.

#### Professional and Administrative Services -

A variety of professional and administrative services are available. Prices for services not specifically detailed in this quotation will be billed in accordance with Eurofins TestAmerica's Professional Rate Schedule.

#### Taxes -

Where reports are issued in or delivered to a state which assesses sales tax on Eurofins TestAmerica's services, applicable sales taxes will be added to the invoice as required by law, unless an appropriate sales tax exemption form is on file with Eurofins TestAmerica.

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Tel: (518) 250-7308

Prepared by Massa, Anthony J

9/4/2019 Date **Expiration Date** 12/3/2019

Est. Start Date

### Project: PFAS & 1,4 Dioxane Analysis

#### Quote Number: 48020874 - 0

Water	Samples
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Matrix	Method	Test Description	Analyte			
				RL	MDL	Units
Water	8270D SIM ID	1,4 Dioxane - non-potable analysis	1,4-Dioxane CAS#: 123-91-1	0.200	0.100	ug/L
		Isotope Dilution				
			1,4-Dioxane-d8 CAS#: 17647-74-4			
				RL	MDL	Units
Water	25101:2009	PFAS - NY25101- Drinking Water Analysis-Analytes listed in the back of the quote	Perfluoroheptanoic acid (PFHpA) CAS#: 375-85-9	2.00	0.910	ng/L
			Perfluorooctanoic acid (PFOA) CAS#: 335-67-1	2.00	0.810	ng/L
			Perfluorononanoic acid (PFNA) CAS#: 375-95-1	2.00	0.270	ng/L
			Perfluorobutanesulfonic acid (PFBS) CAS#: 375-73-5	2.00	0.490	ng/L
			Perfluorohexanesulfonic acid (PFHxS) CAS#: 355-46-4	2.00	0.800	ng/L
			Perfluorooctanesulfonic acid (PFOS) CAS#: 1763-23-1	2.00	0.610	ng/L
		Isotope Dilution				
		·	18O2 PFHxS			
			CAS#: STL00994			
			13C4 PFHpA			
			CAS#: STL01892			
			13C4 PFOA			
			CAS#: STL00990			
			13C4 PFOS CAS#: STL00991			
			13C5 PFNA			
			CAS#: STL00995			
				RL	MDL	Units
Water	537 (modified)	PFAS, Standard List (21 analytes) - non-potable analysis	Perfluorobutanoic acid (PFBA)	2.00	1.00	ng/L
			CAS#: 375-22-4			
			Perfluoropentanoic acid (PFPeA) CAS#: 2706-90-3	2.00	0.630	ng/L

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Prepared for:

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Method

Tel: (518) 250-7308

Matrix

Prepared by Massa, Anthony J

Date 9/4/2019 **Expiration Date** 12/3/2019

Est. Start Date

#### Project: PFAS & 1,4 Dioxane Analysis

**Test Description** 

#### Quote Number: 48020874 - 0

Water Samples	
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Analyte

viatrix	Metriou	Test Description	Analyte			
Continued				RL	MDL	Units
			Perfluorohexanoic acid (PFHxA) CAS#: 307-24-4	2.00	0.760	ng/L
			Perfluoroheptanoic acid (PFHpA) CAS#: 375-85-9	2.00	0.910	ng/L
			Perfluorooctanoic acid (PFOA) CAS#: 335-67-1	2.00	0.810	ng/L
			Perfluorononanoic acid (PFNA) CAS#: 375-95-1	2.00	0.270	ng/L
			Perfluorodecanoic acid (PFDA) CAS#: 335-76-2	2.00	0.770	ng/L
			Perfluoroundecanoic acid (PFUnA) CAS#: 2058-94-8	2.00	0.780	ng/L
			Perfluorododecanoic acid (PFDoA) CAS#: 307-55-1	2.00	0.590	ng/L
			Perfluorotridecanoic acid (PFTriA) CAS#: 72629-94-8	2.00	0.600	ng/L
			Perfluorotetradecanoic acid (PFTeA) CAS#: 376-06-7	2.00	0.920	ng/L
			Perfluorobutanesulfonic acid (PFBS) CAS#: 375-73-5	2.00	0.490	ng/L
			Perfluorohexanesulfonic acid (PFHxS) CAS#: 355-46-4	2.00	0.800	ng/L
			Perfluoroheptanesulfonic Acid (PFHpS) CAS#: 375-92-8	2.00	0.950	ng/L
			Perfluorooctanesulfonic acid (PFOS) CAS#: 1763-23-1	2.00	0.610	ng/L
			Perfluorodecanesulfonic acid (PFDS) CAS#: 335-77-3	2.00	0.900	ng/L
			Perfluorooctanesulfonamide (PFOSA) CAS#: 754-91-6	10.0	10.0	ng/L
			N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA) CAS#: 2355-31-9	20.0	1.70	ng/L
			N-ethylperfluorooctanesulfonam idoacetic acid (NEtFOSAA) CAS#: 2991-50-6	20.0	1.50	ng/L
			1H,1H,2H,2H-perfluorooctanes ulfonic acid (6:2)	20.0	5.50	ng/L
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Prepared by Massa, Anthony J

9/4/2019 Date 12/3/2019 **Expiration Date** 

Est. Start Date

#### Project: PFAS & 1,4 Dioxane Analysis

#### Quote Number: 48020874 - 0

#### **Water Samples**

			Water 6	ampies			
Matrix	Method	Test Description		Analyte			
Continued					RL	MDL	Units
				CAS#: 27619-97-2			
				1H,1H,2H,2H-perfluorodecanes	20.0	2.90	ng/L
				ulfonic acid (8:2)			Ü
				CAS#: 39108-34-4			
			Isotope Dilution				
				18O2 PFHxS			
				CAS#: STL00994			
				13C4 PFHpA			
				CAS#: STL01892			
				13C4 PFOA			
				CAS#: STL00990			
				13C4 PFOS			
				CAS#: STL00991			
				13C5 PFNA			
				CAS#: STL00995			
				13C4 PFBA			
				CAS#: STL00992			
				13C2 PFHxA			
				CAS#: STL00993			
				13C2 PFDA			
				CAS#: STL00996			
				13C2 PFUnA			
				CAS#: STL00997			
				13C2 PFDoA			
				CAS#: STL00998			
				13C8 FOSA			
				CAS#: STL01056			
				13C5 PFPeA			
				CAS#: STL01893			
				13C2 PFTeDA			
				CAS#: STL02116			
				d3-NMeFOSAA			
				CAS#: STL02118			
				d5-NEtFOSAA			
				CAS#: STL02117			
				M2-6:2 FTS			
				CAS#: STL02279			
				M2-8:2 FTS			
				CAS#: STL02280			
				13C3 PFBS			

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CAS#: STL02337



# **Environment Testing TestAmerica**

#### **EUROFINS TESTAMERICA TERMS AND CONDITIONS OF SALE (Short Form)**

When a purchaser (Client) places an order for laboratory, consulting or sampling services from TestAmerica Laboratories, Inc., a Delaware corporation (Eurofins TestAmerica), Eurofins TestAmerica shall provide the ordered services pursuant to these Terms and Conditions and the related Quotation or Price Schedule, or as agreed in a negotiated contract. In the absence of a written agreement to the contrary, a client order constitutes an acceptance by the Client of Eurofins TestAmerica's offer to do business under these Terms and Conditions, and an agreement to be bound by these Terms and Conditions. Receipt of a Client's samples at a Eurofins TestAmerica laboratory constitutes acceptance of these Terms and Conditions (in the absence of any other negotiated contract). No contrary or additional terms and conditions expressed in a Client's document shall be deemed to become a part of the contract created upon acceptance of these Terms and Conditions, unless accepted by Eurofins TestAmerica in writing.

#### 1. ORDERS AND RECEIPT OF SAMPLES

- 1.1 A Client may place an order (i.e., specify a Scope of Work) either by submitting a purchase order to Eurofins TestAmerica in writing or by telephone subsequently confirmed in writing, or by negotiated contract. Whichever option the Client selects for placing an order, the order shall not be valid unless it contains sufficient specification to enable Eurofins TestAmerica to carry out the Client's requirements. In particular, samples must be accompanied by: a) adequate instruction on type of analysis requested, and b) complete written disclosure of the known or suspected presence of any hazardous substances, as defined by applicable federal or state law. If a Client fails to provide these required disclosures accompanying the submission of samples, and such failure results in an interruption in the lab's ability to process work due to contamination of instruments or work areas, the Client will be responsible for the costs of clean-up and recovery.
- 1.2 The Client shall provide one week's advance notice of the sample delivery schedule, or any changes to the schedule, whenever possible. Upon timely delivery of samples, Eurofins TestAmerica will use its best efforts to meet mutually agreed turnaround times. All turnaround times will be calculated from the point in time when Eurofins TestAmerica has determined that it can proceed with defined work following receipt, inspection of samples, and resolution of any discrepancies in Chain-of-Custody forms and project guidance regarding work to be done (Sample Delivery Acceptance). Rush turnaround times not requested in advance of the delivery of samples and specifically agreed to by the lab are not guaranteed. If the Client changes the sample delivery schedule prior to Sample Delivery Acceptance, Eurofins TestAmerica reserves its rights to modify its turnaround time commitment, change the date upon which Eurofins TestAmerica will accept samples, or refuse Sample Delivery Acceptance for the affected samples.
- 1.3 Eurofins TestAmerica reserves the right, exercisable at any time, to refuse or revoke Sample Delivery Acceptance for any sample which in the sole judgment of Eurofins TestAmerica: a) is of unsuitable volume; b) may pose a risk or become unsuitable for handling, transport, or processing for any health, safety, environmental or other reason, whether or not due to the presence of any hazardous substance in the sample and whether or not such presence has been disclosed to Eurofins TestAmerica by the Client; or c) holding times cannot be met, due to passage of more than 48 hours from the time of sampling or 1/2 the holding time for the requested test, whichever is lose.
- 1.4 Prior to Sample Delivery Acceptance, the entire risk of loss or damage to samples remains with the Client, except where Eurofins TestAmerica provides courier services. In no event will Eurofins TestAmerica have any responsibility or liability for the action or inaction of any carrier shipping or delivering any sample to or from Eurofins TestAmerica's premises. Client is responsible for assuring that any sample that contains or may contain any hazardous substance to be delivered to Eurofins TestAmerica's premises is properly packaged, labeled, transported and delivered, all in accordance with applicable laws.
- 1.5 Eurofins TestAmerica reserves the right to begin processing samples upon receipt, unless the Client specifically notifies Eurofins TestAmerica in writing prior to sample receipt that the samples are to be held without preparation or other processing or pending receipt of a purchase order. Eurofins TestAmerica shall under no circumstances be responsible for missed holding times or turnaround times or for re-sampling costs if samples

are released from hold with less than 48 hours or 1/2 the holding time for the requested test remaining, whichever is less.

#### 2. PAYMENT TERMS

- 2.1 Services performed by Eurofins TestAmerica will be in accordance with prices quoted and later confirmed in writing or as stated in the Price Schedule. Quoted prices do not include sales tax. Applicable sales tax will be added to invoices where required by law.
- 2.2 Invoices may be submitted to Client upon completion of any sample delivery group. Billing corrections must be requested within 30 days of invoice date. Payment in advance is required for all clients except those whose credit has been established with Eurofins TestAmerica. For clients with approved credit, payment terms are net 30 days from the date of invoice by Eurofins TestAmerica, unless alternative terms have been agreed in a separate written agreement. Payment shall be made without retainage, and shall not be contingent upon the receipt of funds from third parties. All overdue payments are subject to an additional interest and service charge of one and one half percent (1.5%) (or the maximum rate permissible by law, whichever is less) per month or portion thereof from the due date until the date of payment. All fees are charged or billed directly to the Client. The billing of a third party will not be accepted without a statement, signed by the third party, acknowledging and accepting payment responsibility in accordance with these payment terms.
- 2.3 If Client fails to make timely payment of its invoices, Eurofins TestAmerica reserves the right to pursue all appropriate remedies, including withdrawing certifications, suspending work and withholding delivery of data under this order without recourse. Client shall be responsible for all reasonable fees, expenses, and costs of collection including but not limited to arbitrator's and attorney's fees. Eurofins TestAmerica reserves the right to refuse to proceed with work at any time based upon an unfavorable Client credit report.

#### 3. CHANGE ORDERS, TERMINATION

- 3.1 Changes to the Scope of Work, price, or result delivery date may be initiated by Eurofins TestAmerica after Sample Delivery Acceptance due to any condition which conflicts with analytical, QA or other protocols warranted in these Terms and Conditions. Eurofins TestAmerica will not proceed with such changes until an agreement with the Client is reached on the amount of any cost, schedule change or technical change to the Scope of Work, and such agreement is documented in writing.
- 3.2 Changes to the Scope of Work, including but not limited to increasing or decreasing the work, changing test and analysis specification, or acceleration in the performance of the work may be initiated by the Client after Sample Delivery Acceptance. Such change must be documented in writing and may result in a change in cost and turnaround time commitment. Eurofins TestAmerica's acceptance of such changes is contingent upon technical feasibility and operational capacity.
- 3.3 Suspension or termination of all or any part of the work may be initiated by the Client. Eurofins TestAmerica will be compensated consistent with Section 2 of these Terms and Conditions. Eurofins TestAmerica will complete all work in progress and be paid in full for all work completed.

#### 4. WARRANTIES AND LIABILITY

4.1 Where applicable, Eurofins TestAmerica will use appropriate and approved analytical test methods. Eurofins TestAmerica has referenced these methods in its Laboratory Quality Manuals and has documented them in Standard Operating Procedures. Eurofins TestAmerica reserves the right based on its reasonable judgment to deviate from these methodologies as necessary or appropriate to the extent required by the nature or composition of the sample, which deviations, if any, will be made on a basis consistent with recognized standards of the industry and/or Eurofins TestAmerica's Laboratory Quality Manuals. Client may request that Eurofins TestAmerica perform according to a mutually agreed Quality Assurance Project Plan (QAPP). If samples arrive prior to agreement on a QAPP, Eurofins TestAmerica will proceed with analyses under its standard Quality Manuals then in effect. Eurofins TestAmerica will not be responsible for any resampling or other charges if work must be repeated to comply with a subsequently finalized QAPP.



# **Environment Testing TestAmerica**

- 4.2 Eurofins TestAmerica shall start preparation and/or analysis within holding times provided that Sample Delivery Acceptance occurs within 48 hours of sampling or 1/2 of the holding time for the test, whichever is less, unless the Client has specifically requested that Eurofins TestAmerica hold the samples without preparation or other processing or pending receipt of a purchase order. Where resolution of inconsistencies leading to Sample Delivery Acceptance does not occur within this period, Eurofins TestAmerica will use its best efforts to meet holding times and will proceed with the work provided that, in Eurofins TestAmerica's judgment, the chain-of-custody or definition of the Scope of Work provide sufficient guidance. Reanalysis of samples to comply with Eurofins TestAmerica's Quality Manuals will be deemed to have met holding times provided the initial analysis was performed within the applicable holding time. Where reanalysis demonstrates that sample matrix interference is the cause of failure to meet any Quality Manual requirements, the warranty will be deemed to have been
- 4.3 Eurofins TestAmerica warrants that it possesses and maintains all licenses and certifications that are required to perform services under these Terms and Conditions provided that such requirements are specified in writing to Eurofins TestAmerica prior to Sample Delivery Acceptance. Eurofins TestAmerica will notify the Client in writing of any decertification or revocation of any license, or notice of either, that affects work in progress.
- 4.4 The warranty obligations set forth in Sections 4.1, 4.2 and 4.3 are the sole and exclusive warranties given by Eurofins TestAmerica in connection with any services performed by Eurofins TestAmerica or any results generated from such services, and Eurofins TestAmerica gives and makes NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. No representative of Eurofins TestAmerica is authorized to give or make any other representation or warranty or modify this warranty in any way.
- 4.5 Client's sole and exclusive remedy for breach of warranty in connection with any services performed by Eurofins TestAmerica will be limited to repeating any services performed, contingent on the Client's providing, at the request of Eurofins TestAmerica and at the Client's expense, additional sample(s) if necessary. Any reanalysis requested by the Client generating results consistent with the original results will be at the Client's expense. If resampling is necessary, Eurofins TestAmerica's liability for resampling costs will be limited to actual cost or one hundred and fifty dollars (\$150) per sample, whichever is less.
- 4.6 Eurofins TestAmerica's liability for any and all causes of action arising hereunder, whether based in contract, tort, warranty, negligence or otherwise, shall be limited to the lesser amount of compensation for the services performed or \$100,000. All claims, including those for negligence, shall be deemed waived unless suit thereon is filed within one year after Eurofins TestAmerica's completion of the services. Under no circumstances, whether arising in contract, tort (including negligence), or otherwise, shall Eurofins TestAmerica be responsible for loss of use, loss of profits, or for any special, indirect, incidental or consequential damages occasioned by the services performed or by application or use of the reports prepared.
- 4.7 In no event shall Eurofins TestAmerica have any responsibility or liability to the Client for any failure or delay in performance by Eurofins TestAmerica that results, directly or indirectly, in whole or in part, from any cause or circumstance beyond the reasonable control of Eurofins TestAmerica. Such causes and circumstances include, but are not limited to, acts of God, acts of Client, acts or orders of any governmental authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, equipment breakdown, matrix interference or unknown highly contaminated samples that impact instrument operation, unavailability of supplies from usual suppliers, difficulties or delays in transportation, mail or delivery services, or any other cause beyond Eurofins TestAmerica's reasonable control.

#### 5. RESULTS, WORK PRODUCT

5.1 Data or information provided to Eurofins TestAmerica or generated by services performed under this agreement shall only become the property of the Client upon receipt in full by Eurofins TestAmerica of payment for the entire order. Ownership of any analytical method, QA/QC protocols, software programs or equipment developed by Eurofins TestAmerica for performance of work will be retained by Eurofins TestAmerica. Client shall

- not disclose such information to any third party without Eurofins TestAmerica's express prior consent.
- 5.2 Data and sample materials provided by Client or at Client's request, and the result obtained by Eurofins TestAmerica shall be held in confidence (unless such information is generally available to the public or is in the public domain or Client has failed to pay Eurofins TestAmerica for all services rendered or is otherwise in breach of these Terms and Conditions), subject to any disclosure required by law or legal process.
- 5.3 Should the results delivered by Eurofins TestAmerica be used by the Client or Client's client, even though subsequently determined not to meet the warranties described in these Terms and Conditions, then the compensation will be adjusted based upon mutual agreement. In no case shall the Client unreasonably withhold Eurofins TestAmerica's right to independently defend its data.
- 5.4 Eurofins TestAmerica reserves the right to perform the services at any laboratory in the Eurofins TestAmerica network. If a Client has requested a particular location for the work, Eurofins TestAmerica will inform the Client when operational constraints require the work to be performed at another Eurofins TestAmerica location. In addition, Eurofins TestAmerica reserves the right to subcontract services ordered by the Client to another laboratory or laboratories, if, in Eurofins TestAmerica's sole judgment, it is reasonably necessary, appropriate or advisable to do so. Eurofins TestAmerica will in no way be liable for any subcontracted services (outside the Eurofins TestAmerica network) except for work performed at laboratories which have been audited and approved by Eurofins TestAmerica.
- 5.5 Eurofins TestAmerica will dispose of non-hazardous samples, sample extracts and digestates 30 days after the final analytical report is issued, unless instructed to store them for an alternate period of time or to return such samples to the Client, in a manner consistent with U.S. Environmental Protection Agency regulations or other applicable federal, state or local requirements. Charges for disposal will be billed to the client. Alternatively, samples can be returned to the client for disposal. Cost of return shipping will be billable to the client. Air samples in Summa canisters and tedlar bags are used and the containers cleaned immediately after testing, such that those samples are not retained. Longer storage periods may be requested and may be accommodated if space allows, and for an additional charge. Any samples for projects that are canceled or not accepted, or for which return was requested, will be returned to the Client at its own expense. Eurofins TestAmerica reserves the right to return to the Client any sample or unused portion of a sample that is not within Eurofins TestAmerica's permitted capability or the capabilities of Eurofins TestAmerica's designated waste disposal vendor(s). ALL DIOXIN, MIXED WASTE, AND RADIOACTIVE SAMPLES WILL BE RETURNED TO THE CLIENT, unless ALL DIOXIN, MIXED WASTE, AND prior arrangements for disposal are made.
- 5.6 Unless a different time period is agreed to in an order under these Terms and Conditions, Eurofins TestAmerica agrees to retain all records for five (5) years.
- 5.7 If Eurofins TestAmerica is required to respond to legal process related to services for Client, Client agrees to reimburse Eurofins TestAmerica for hourly charges for personnel involved in the response and attorney's fees reasonably incurred in obtaining advice concerning the response, preparation to testify, and appearances related to the legal process, travel and all reasonable expenses associated with the litigation. Additional consulting beyond that normally associated with lab reports will be billed at Eurofins TestAmerica's current published rates.

#### 6. INSURANCE

6.1 During the performance of services under these Terms and Conditions, Eurofins TestAmerica shall maintain in force Workers' Compensation and Employer's Liability Insurance in accordance with the laws of the states having jurisdiction over Eurofins TestAmerica's employees who are engaged in the performance of the work. Eurofins TestAmerica shall also maintain during such period Comprehensive General and Contractual Liability (limit of \$1,000,000 per occurrence/ \$2,000,000 aggregate), Comprehensive Automobile Liability, owned and hired, (\$1,000,000 combined single limit), Professional Liability Insurance (limit of \$5,000,000 per claim/aggregate and Pollution Liability insurance (limit of \$5,000,000 per claim/aggregate).



# **Environment Testing TestAmerica**

#### 7. MISCELLANEOUS PROVISIONS

- 7.1 These Terms and Conditions, together with any additions or revisions which may be agreed to in writing by Eurofins TestAmerica, embody the whole agreement of the parties and provide the only remedies available. There are no promises, terms, conditions, understandings, obligations or agreements other than those contained herein, and these Terms and Conditions shall supersede all previous communications, representations, or agreements, either verbal or written, between the Client and Eurofins TestAmerica. These Terms and Conditions, and any transactions or agreements to which they apply, shall be governed both as to interpretation and performance by the laws of the state where Eurofins TestAmerica's services are performed.
- 7.2 The invalidity or unenforceability, in whole or in part, of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of these Terms and Conditions, the intent of the parties being that the provisions be severable. The section headings of these Terms and Conditions are intended solely for convenient reference and shall not define, limit or affect in any way these Terms and Conditions or their interpretations. No waiver by either party of any provision, term or condition hereof or of any obligation of the other party hereunder shall constitute a waiver of any subsequent breach or other obligation.
- 7.3 The obligations, liabilities, and remedies of the parties, as provided herein, are exclusive and in lieu of any others available at law or in equity. Indemnifications, releases from liability and limitations of liability shall apply, notwithstanding the fault, negligence or strict liability of the party to be indemnified, released, or whose liability is limited, except to the extent of sole negligence or willful misconduct.

## **Data Validation Services**

120 Cobble Creek Road P. O. Box 208 North Creek, NY 12853 Phone (518) 251-4429 harry@frontiernet.net

September 11, 2019

Jasmine Mullins ARCADIS US, Inc. 855 Route 146 Suite 210 Clifton Park, NY 12065

RE: NYSDEC Gladding Cordage Site

Cost Estimate --Data Usability Summary Report (DUSR) Validation of PFAS and 1,4-Dioxane Analytical Data

Dear Ms. Mullins:

Thank you for your request for validation services. I have reviewed the scope of work forwarded to me, and have prepared the following proposal.

Data Validation Services (DVS) has been performing validation of laboratory data since 1989, and is certified by New York State as a WBE. My experience has included projects originating at the federal, state, and municipal levels, and includes validation according to USEPA (National and Regional), NYSDEC, and NJDEP procedures. Costs for the NYSDEC DUSR review are provided.

The laboratory data packages will be reviewed for quality control parameters (including, but not limited to, custody documentation, holding times, surrogate and matrix spike recoveries, internal standard responses, LCS recoveries, duplicate correlation, calibration standard/blank performance, instrument performance, blank contamination, matrix interferences, method compliance, etc). This review will be performed from the summary forms available in the data package. In addition, the raw data for the samples will be reviewed to verify reported results. Full validation to verify all QC summary page values and QC/Control reported results from the raw data will not be performed at this time. However, most of the validation qualifiers that would be apparent by full validation review will be recommended within the DUSR. The DUSR will be a narrative discussion organized by analytical fraction. At a minimum, all items noted in the NYSDEC DUSR Appendix 2B of the DER-10 will be discussed in the DUSR. Please note that any discussion regarding steps taken to fill in data gaps must be generated in coordination with your firm.

A single DUSR covering the entire scope of the project will be provided. Sample result qualifiers indicated by the review will be applied to EQuIS excel files provided to this firm by Arcadis (those tables will not be reviewed by DVS for transcription and accuracy to the data package results).

The described scope of 5 samples processed for per-and polyfluoro alkyl substances (PFAS) and 1,4-dioxane falls under the minimum charge of \$ 350. If the number of samples changes, the unit costs of \$35 for the former and \$ 7 for the latter may apply.

Please request that the laboratory combine samples into single Category B data packages whenever possible.

Costs reflect review of bookmarked electronic data packages that involve analyses generated in compliance with the required protocols, and which are complete in the required deliverables.

In order to provide timely validation, this firm must be notified as samples are collected. Any available QAPPs, SAPs, or WPs should be provided to this firm with the initial data packages.

Please contact me if you have questions or comments regarding this proposal. Thank you for your consideration of this proposal.

Very truly yours,

Judy Harry

Judy Harry

# **Cost Review Checklist**

#### **Standby Engineering Contract Work Assignment Package Checklist**

Contracts Executed After 2010 (D007617 - D007626)

**Andy Vitolins** 

Contractor Name: Arcadis CE, Inc.

Date: 10/21/19 Reviewer:

WA No. and Name: D007618-7.3 Vestal Water Supply

WORK ASSIGNMENT PACKAGE	Yes	No	Comments
Includes a cover letter, completed WA Package checklist, Scope of Work (Schedule 1), Budget (Schedule 2.11(a)-(g)), relevant subcontractor documentation, and an M/WBE Utilization Plan.	X		
1 Cover Letter			
Provides explanation for significant differences between the costing tool report and the scope of work and budget submitted.	X		
For amendments, provides an explanation of changes in scope of work and/or budget by task. Includes total dollar value of amendment being requested.	X		
2 Schedule 1 (Scope of Work)			
Includes breakdown of tasks and subtasks.	X		
Tasks in the scope of work match the tasks in the Schedule 2.11s.	X		
Includes schedule for completion of tasks.	X		
Duration of anticipated work does not exceed 24 months. (Work subsequent to that should be part of a future amendment or new work assignment.)	X		
For amendments, includes new and previous tasks for a comprehensive scope of work.	X		
3 Schedule 2.11(b) - Direct Labor Costs			
Average reimbursement rates are used for each year. Future years escalate 3%.	X		
Hours are segregated by year.	X		
Total cost for each NSPE level is shown.	X		
Total direct labor cost matches amount on Schedule 2.11(a).	X		
The Principal's (NSPE IX) labor hours budgeted for WA are less than 2% of the total.	X		
Direct Administrative Labor Hours - is reasonable, i.e., admin LOE is within acceptable guideline of <4% of overall WA LOE. Justification is attached for any exceedance.	X		
Total labor hours match hours on Schedule 2.11(g).	X		
4 Schedules 2.11(c) - Direct Non-Salary Costs, Equipment and Consumables, Miscellaneo	ous		
Rates listed in Schedule 2.11(c) are consistent with contract.	X		
Rates for in-house and/or misc. costs match contract Schedule 2.10(b) or 2.10(c).	X		
All costs are allowable, e.g., office telephone and office shipping cannot be reimbursed as a direct cost if they're included in ICR.	X		
Quotes are included for any non-contract items ( <u>including</u> consultant-owned equipment; equipment purchases and rentals; <u>excluding</u> air fare) greater than \$1k. If sufficient number of quotes are unavailable, an engineer's estimate is provided. The low quote has been selected.	X		
Site-dedicated equipment is identified as such and meets the requirements above.			NA
Appropriate lodging/per diem/mileage rates are used.	X		
Direct non-salary items are reasonable based on the scope of work (no. of field days, lodging, and field equipment usage).	X		
Total of direct non-salary costs matches the amount on Schedule 2.11(a).	X		

5	Schedule 2.11(d) - Cost-plus-fixed-fee Subcontracts	Yes	No	Comments
	Proposed subcontractor is a DER-approved standby subcontractor for the firm. Subcontract is active and rates match the approved standby subcontract.	X		
	Proposed subcontractor is not a DER-approved standby subcontractor for the firm, but appropriate documentation was submitted to determine cost reasonableness.			NA
	Rates match rates approved for that subcontractor under a different engineering firm.			NA
	• Rates are determined reasonable by other means and ICR is approved by CPS accountant.			NA
	A breakdown of direct labor and direct non-salary costs is provided.	X		
	Use of subcontractor is appropriate and justified	X		
	Subcontract Solicitation Record and Certification form has been submitted.	X		
	Total subcontract costs match amounts on Schedule 2.11(a).	X		
6	Schedule 2.11(e) - Unit Price Subcontracts			
	There are quotes for non-standby subcontracts >\$1k. Bids are comparable (quantities and items) and provide unit costs plus job total. If sufficient number of quotes are unavailable, an engineer's estimate must be provided. The low quote has been selected.	X		
	Standby Drillers (Two phase process) - Quotes from all standbys are attached. Proper unit costs and mobilization/demobilization costs are used. The low quote has been selected. Explanation for declinations has been provided.			NA
	Standby Labs and Data Validators (rotate use) - Unit costs match those in contract(s).			NA
	<i>M/WBE</i> - Cost reasonableness of sole/single source M/WBE contracts <\$10k are documented by an engineer's estimate or other cost comparison.			NA
	Cost reasonableness of single/sole source contracts are documented by an engineer's estimate or other cost comparisons (e.g., historical costs, pricing guides).			NA
	Placeholders are used only for non-standby subcontractors and are justified.	X		
	Cost reasonableness of placeholder subcontractors are documented by an engineer's estimate or other cost comparisons.	X		
	Correct contract management fee is calculated only on non-professional unit priced subs >\$10k and M/WBE firms from \$1. (Management fee is not allowed on professional engineering firms, architects, or surveyors unless the contract specifically allows it.)	X		
	Use of subcontractors is appropriate and justified.	X		
	Subcontract Solicitation Record and Certification form(s) have been submitted.	X		
	Total subcontract costs match the amounts on Schedule 2.11(a).	X		
7	Schedule 2.11(f) - Cost Control Report			
	Individual 2.11(f)s equal Summary 2.11(f) and costs match those on 2.11(a).	X		
8	Schedule 2.11(f) - Supplemental - Cost Control Report (subcontractors)			
	Includes all applicable subcontracts and management fees (for unit price only).	X		
9	Schedule 2.11(a)			
	Rates for indirect costs and fixed fee match contract rates.	X		
	All numbers rolled up into Schedule 2.11(a) add up.	X		

rev. 1/10/12

# **EEO** and **MWBE** Utilization Plan

#### New York State Department Of Environmental Conservation

Office of Minority and Women's Business Program

625 Broadway, 10th Floor, Albany, New York 12233-5028

Phone: 518.402.9311 Fax: 518.402.9230

Website: www.dec.ny.gov Email: mwbe@gw.dec.state.ny.us



Version 2.1

#### Consultant / Contractor Detailed M/WBE-EEO Utilization Plan

	Contractor Name:	ARCADIS	ARCADIS CE, INC.								
	NYSDEC Contract No:	D007618	3		Contractor Fed	leral ID: 132653703					
	Contract Start Date:	02/28/20	011		Contract End D	02/28/2020	Date Su	ıbmitted:	10/21/2019		
	Contractor Address:	855 ROL	JTE 146								
	City:	CLIFTON	I PARK		State:	New York	Zi	p Code 1	2065		
	Contractor E-mail:	daniel.lo	ewensteir	n@arcad	is.com	Contractor Phone Nun	nber:	(518)	250-7300		
	Contract Type:		Servi	ces / Te	chnologies						
	Project Goals Based o	n:	Work	k Assign	ments						
	Project County:		Broo	me							
	Authorized Represent	tative Nan	ne: DANI	EL LOEV	VENSTEIN						
	Authorized Represent	tative Title	e: SENIC	OR VICE	PRESIDENT						
T	M/WBE Contract Sun	nmary	%		Amount	EEO Contract Sumr	nary	%	No of Employees		
1	. NYSDEC Contract Am	ount	(A)	\$50,00	0,000.00	7. Total Employees in t	his projed	ct 100 %	1460		
2	. Recipient Share (If Ap	plicable)	(B)			8. Total Goal -Minority I	Employee	es % 10	146		
3.	3. Total Project Amount ( A + B) * 100 %			\$50,000	0,000.00	9. Total Goal - Female E	mployee	s % 10	146		
4	. MBE Project Goal %	pal %		\$7,500,	000.00	10. EEO Combined Tota	ıls %	20	292		
5	5. WBE Project Goal % 5.00			\$2,500,	000.00	* - Goals apply on Tota	l Project	Amount			
6	. M/WBE Total %		20	\$10,00	0,000.00						

Section II - EEO Information: In order to achieve the EEO Goals, Minorities and Females are expected to be employed in the following Job categories. Please provide breakdown of Minority and Female Employees assigned to this project Only. If the EEO goals are not met please provide an explanation in the comments area.

		•	Total Count of oyees by Gender		wn of Total Coเ	ınt of Minority	Employees by	Ethnicity
Job Categories	Total Count of Minority Employees	Male	Female	African American	Asian	Native American	Hispanic	White
Officials/ Managers	216	66	150	15	31	1	34	135
Professionals	1,571	302	1,269	103	242	7	161	1,058
Technicians	160	89	71	37	15	6	44	58
Sales Workers								
Office/ Clerical	261	8	253	21	11	4	16	209
Craftsman								
Laborers								
Service / Workers								
Totals	2,208	465	1,743	176	299	18	255	1,460

Comments:	Please don't remove previous comments
Vestal Water Supply (Site 1-1)	
Site # 704009A Vestal, New York	
Work Assignment # D-007618-7.2	
Tront is significant in B. Gor, Gro, 7.12	
This Utilization Plan is representative of only \$48,475,544.58 out of the M/WBE participation for the entire \$50,000,000 contract.	\$50,000,000 contract and does not represent Arcadis' complete
Please also refer to the Arcadis' quarterly M/WBE reports.	

Section III - M/WBE Information: In order to achieve the M/WBE Goals, New York State Certified MINORITY/WOMEN-OWNED firms are expected to participate in the following manner.

Important: If there is NO M/WBE Vendor Participation please provide brief summary of Good Faith Documentation in the Comments. <u>Do not</u> enter NA or NONE in Vendor Name.

Add	M/WBE Vendor	Federal ID	Vendor	Subcontract Amou	n Start Date	End Date	Payment	Work Description
Row	Name	reacianib	Status		- Start Bate	End Date	Date	Work Description
Add Row	M/WBE Vendor Name	Federal ID	Vendor Status	Subcontract Amou	n Start Date	End Date	Payment Date	Work Description
Add Row	M/WBE Vendor Name	Federal ID	Vendor Status	Subcontract Amou	n Start Date	End Date	Payment Date	Work Description
Х	ATLANTIC TESTING LABORATORIES	161109111	WBE	\$4,706.00	02/28/2011	02/28/2020		Geotechnical Testing
Х	AZTECH TECHNOLOGIES	161536343	WBE	\$202,949.00	02/28/2011	02/28/2020		Drilling and Field Support
Х	CONSTRUCTIVE COPY	562384019	WBE	\$47,574.00	02/28/2011	02/28/2020		Scanning Services
Х	CON-TEST	043308124	WBE	\$248,102.00	02/28/2011	02/28/2020		Laboratory Analysis
Х	DARRAH LAND SURVEYING	205754633	WBE	\$6,000.00	02/28/2011	02/28/2020		Survey
Х	DATA VALIDATION SERVICES	239022643	WBE	\$131,031.00	02/28/2011	02/28/2020		Data Validation
Х	DIAMOND SECURITY SERVICES	262644307	МВЕ	\$120,120.00	02/28/2011	02/28/2020		Security Guard Services
Х	ENVIRONMENTAL COMPLIANCE INC.	222996928	МВЕ	\$124,504.00	02/28/2011	02/28/2020		System O&M
Х	JHB ENGINEERING	461339561	МВЕ	\$19,246.00	02/28/2011	02/28/2020		Geotechnical Services
Х	LAND, AIR, WATER ENV. SERVICES, INC.	112957458	WBE	\$94,489.00	02/28/2011	02/28/2020		Drilling Services
Х	MC ENVIRONMENTAL SERVICES, INC.	141779702	WBE	\$7,327.00	02/28/2011	02/28/2020		IDW Disposal
Х	MEGA ENGINEERING AND LAND SURVEYING, P.C.	222988395	DUAL	\$6,358.00	02/28/2011	02/28/2020		Survey
Х	MJ ENGINEERING	141610087	МВЕ	\$2,000.00	02/28/2011	02/28/2020		Survey
Х	NATURE'S WAY ENVIRONMENTAL	161478991	WBE	\$37,942.00	02/28/2011	02/28/2020		Well Repairs
Х	POPLI DESIGN GROUP	161424510	МВЕ	\$14,450.00	02/28/2011	02/28/2020		Survey

Add Row	M/WBE Vendor Name	Federal ID	Vendor Status	Subcontract Amou	n Start Date	End Date	Payment Date	Work Description
х	PRECISION ENVIRONMENTAL SERVICES	141756196	WBE	\$113,502.00	02/28/2011	02/28/2020		Direct-Push Drilling
Х	RADAR SOLUTIONS INTERNATIONAL, INC.	043534689	WBE	\$22,703.00	02/28/2011	02/28/2020		Geophysical Survey
Х	RAVI ENGINEERING AND LAND SURVEYING, P.C.	161482116	МВЕ	\$6,045.00	02/28/2011	02/28/2020		Survey
Х	TERRY BERGENDORFF COLLINS	061272865	WBE	\$4,291.00	02/28/2011	02/28/2020		Survey
Х	VALI-DATA OF WESTERN NY	263031283	WBE	\$38,487.00	2/28/2011	02/28/2020		Data Validation
Х	WATTS ARCHITECTURE AND ENGINEERING	161387864	МВЕ	\$2,214.00	2/28/2011	02/28/2020		Asbestos Inspection
Х	YEC, INC.	133256907	МВЕ	\$239,258.00	02/28/2011	02/28/2020		Survey
		Total Subcontract Amount		\$1,493,298.00				
		Total Subcontract Amount		\$1,493,298.00				
		Total Subcontract Amount		\$1,493,298.00				
		Total Subcontract Amount		\$1,493,298.00				
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		Total Subcontract Amount		\$1,493,298.00				
		Total Subcontract Amount		\$1,493,298.00				
		Total Subcontract Amount		\$1,493,298.00				

By printing name below, Contractor: 1.Certifies that the above information is true and complete as of this date. 2. If required, Will Provide good faith effort documentation to NYSDEC.

Important: Please don't attach this form manually to E-Mail instead Click Submit by E-mail button to send form via E-Mail.

outhorized Representative Signature (Print Name)	DANIEL LOEWENSTEIN	

Submit by E-mail	Print Form	Clear All Fields

FOR NYSDEC MWBE UNIT USE ONLY								
Approved By:								

Approved Date:		
	Incomplete	Export Data