



Engineers • Environmental Scientists • Surveyors

January 7, 2021

Mr. Peter Britz
Coakley Project Coordinator
1 Junkins Avenue
Portsmouth, New Hampshire 03801

**Re: Contract Amendment for Deep Bedrock Investigation Tasks
Coakley Landfill Superfund Site | North Hampton and Greenland, New Hampshire
Contract Number: 10424016-07**

Dear Peter:

CES, Inc. (CES) is pleased to submit the following contract amendment for professional consulting services to the Coakley Landfill Group (CLG). The Scope of Services for this amendment includes the completion of investigative tasks associated with the deep bedrock investigation. These tasks were incorporated into the Revised Deep Bedrock Investigation Work Plan Addendum (Work Plan Addendum) as submitted to the United States Environmental Protection Agency (USEPA) and New Hampshire Department of Environmental Services (NHDES) on July 17, 2020. The Work Plan Addendum was conditionally approved by the USEPA on August 4, 2020.

SCOPE OF SERVICES

Tasks outlined below are those required in support of the Deep Bedrock Investigation

Task 1 – Well Access Clearing: MW-25

The location of proposed deep bedrock monitoring well MW-25 is within a portion of the New Hampshire Department of Transportation (NHDOT) parcel 21-40 requiring brush clearing and tree removal for access. The final location was documented in the *Surface Geophysical Results and MW-25 Well Locating Memorandum* (Memorandum) dated October 2, 2020. These results were reviewed by the USEPA and NHDES with a Site meeting held on October 14, 2020. The location was agreed upon by the Agencies during the meeting. Costs for clearing were not included in contract amendment 10424016-06 (dated October 27, 2020) due to the pending approval of an access agreement with the NHDOT. This agreement was executed between CES and the NHDOT on November 18, 2020.

CES contracted with BC Forestry, LLC of Dover, New Hampshire to complete the clearing of access from the railroad easement west to the proposed well location (approximately 750 feet). Clearing will consist of the removal of blown down trees and selective removal of standing trees (e.g., dead timber). These activities will be completed in accordance with the terms and conditions of the access agreement with the NHDOT.

Mr. Peter Britz | 01.07.2021 | 10424.016-07 | Page 1

Task 2 – Timber Matting Services: MW-25

Following the clearance of access to the proposed well location, timber matting will be required to facilitate drilling rig access. The matting will serve to protect existing wetland areas located between upland areas and the proposed MW-25 location. These wetland areas contain standing water and soft soils that limit rig access. CES will contract with JCR Utility (JCR) to provide timber matting services in advance of drilling activities. These services will be implemented using Best Management Practices with regards to protection of wetlands and associated upland areas located between the former railroad easement and proposed well location. A meeting between JCR and CES was held on December 4, 2020 to define the Scope of Services. Following placement of timber matting, drilling will be completed with mats remaining in place until completion of borehole geophysics and interval packer sampling.

Task 3 – Interval Packer Sampling: MW-25

Interval packer sampling will be completed at MW-25 following the installation of the boring and borehole geophysical surveying. Costs associated with well installation and borehole geophysics were included with contract amendment 10424016-06 dated October 27, 2020. Interval packer sampling, as per the investigation schedule provided to the Agencies on November 6, 2020, was to be completed following the constant rate pumping test (April 2021). However, based on a request by the USEPA made during a November 18, 2020 call, interval packer sampling should be collected prior to initiation of the variable rate pumping test. As such, costs associated with the completion of interval packer sampling following borehole geophysics has been included below. It is estimated, based on previously completed interval packer sampling efforts at the Site, that approximately twelve samples will be collected (nine intervals and three equipment blanks) as part of the effort. Collected samples will be submitted to Alpha Analytical Laboratories (Alpha) of Westborough, Massachusetts, for analysis of PFAS (26 compound list), 1,4-dioxane, arsenic, manganese, and general landfill parameters (ammonia, chemical oxygen demand, chloride, hardness, and nitrate). Samples will be collected using low-flow techniques and in accordance with *Standard Operating Procedure (SOP) #14 – Straddle Packer Testing* as included with the current project SAP (CES, 2018).

Task 4 – Direct Push Investigation: Area West of MW-21S

The direct push investigation was completed in the area west of MW-21S the weeks of November 30 and December 7, 2020. The direct push investigation costs were included with our Contract Amendment Revision provided to the CLG on October 29, 2020. This revision was to document a change to a Scope of Services provided to the CLG in contract amendment 10424016-03 dated December 17, 2019. Task 7 of this December 17, 2019 amendment included costs associated with the installation of a shallow bedrock monitoring well in the area located west of MW-21S to further define and monitor the western portion of the GMZ. Based on sampling completed in bedrock monitoring well MW-21D1 and MW-21D2, it was determined that a shallow bedrock well was not needed and that delineation of impacts within the western portion of the GMZ would be defined using direct push technology (DPT). The DPT investigation was incorporated into Section 2.7 of the Work Plan Addendum.

During completion of the proposed soil borings and temporary monitoring wells, it was determined that overburden sediments in this area were deeper than anticipated and resulted in an additional day on Site for the DPT subcontractor and required the use of additional well materials. Costs associated with the additional subcontractor costs and CES' completion of field activities associated with this effort are included below. The original costs associated with Task 7 of the December 17, 2019 contract amendment were \$46,100.00 and the October 29, 2020 contract amendment revision were \$22,755.00, or approximately 50% of the original amendment amount. The additional costs outlined below would bring the total budgeted amount to \$28,215.00, or 61% of the original Task 7 budget amount. It should be noted that this is a request for approval for use of these Task 7 funds and is not a request for funds in addition to those provided in Task 7 of contract amendment 10424016-03.

COMPENSATION

Task	Cost Estimate
Task 1 – Well Access Clearing: MW-25	
CES Access Clearing Oversight and Coordination – Labor and Expenses	\$600.00
<u>BC Forestry, LLC. – Well Access Clearing Services</u>	<u>\$2,750.00</u>
Task Total	\$3,350.00
Task 2 – Timber Mat Placement: MW-25	
CES Contracting and Access Agreement – Labor and Expenses	\$550.00
<u>JCR Utility – Timber Matting Services</u>	<u>\$29,150.00</u>
Task Total	\$29,700.00
Task 3: Interval Packer Sampling: MW-25	
Northeast Geophysical Services – Packer Sampling	\$7,300.00
Alpha Analytical Laboratory – Packer Sampling Analysis	\$7,825.00
CES Packer Sampling Oversight – Labor and Expenses	\$5,250.00
<u>Interval Packer Sampling Recommendations Memorandum</u>	<u>\$2,550.00</u>
Task Total	\$22,925.00
Task 4 – Direct Push Investigation: Area West of MW-21S	
CES DPT Installation and Sampling – Labor and Expenses	\$3,250.00
<u>New England Boring Contractors – DPT Services</u>	<u>\$2,210.00</u>
Task Total	\$5,460.00*
Contract Amendment Total (excludes Task 4)	\$55,975.00

Note: * - Denotes amount requested for approval of previously provided budget and is not included in contract amendment total.



Costs associated with this project will continue to be invoiced monthly, based upon the work completed during the invoice period. Work will be performed in accordance with contract Terms and Conditions previously executed by CLG and CES under 10424016. The proposed costs, upon approval by the CLG, will be added to the Deep Bedrock Investigation project budget (10424.016) under the terms and conditions and rate schedule used in the original project agreement. An estimate to completion will be prepared when 25% of the budget remains. This estimate will include an analysis of remaining contracted tasks and evaluation of any additionally requested items requested by or approved by the CLG.

If you have any questions concerning this proposal, please contact the undersigned at (207) 404-5958.

Sincerely,
CES, Inc.

A handwritten signature in blue ink, appearing to read "Chris Buckman".

Christopher F. Buckman, P.G.
Senior Project Geologist

A handwritten signature in blue ink, appearing to read "John A. Pond".

John A. Pond, Executive V.P.
Principal-in-Charge
Environmental Division Director

CFB/JAP/jok
Attachments

Acceptance and Authorization to Proceed on behalf of Coakley Landfill Group:

DocuSigned by:
Signature: Eric Spear Billing Address: _____
Printed Name: Eric Spear City/State/ZIP: _____
Date: 1/20/2021 Email (Optional): _____
Phone: _____ Fax: _____



Coakley Landfill Group

February 25, 2021

Mr. Richard Hull
EPA Remedial Project Manager
US Environmental Protection Agency
New England Region I -- HBO
1 Congress Street Suite 1100
Boston, MA 02114-2023

Dear Mr. Hull:

Pursuant to Chapter XV, Paragraph 49 of the Operable Unit 1 Consent Decree, the Trustees of the Coakley Landfill Superfund Trust submit the amount of money currently in the Trust Fund and cash flow projections from January 1, 2021 through June 29, 2021 (180 days).

OU-1 Cash and Cash Equivalents Trust Account Balance: \$290,639
(as of January 1, 2021)

Projected Costs January 1, 2021 through June 29, 2021: \$265,350

Projected ending Trust Account Balance: \$ 25,289

DocuSigned by:

Eric Spear

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Eric Spear
Chairman, Coakley Executive Committee

***1 Jenkins Avenue
Portsmouth, NH 03801***

*Received
ten
VIII-D 3-3-21*

Marian Steimke

From: Peter L. Britz
Sent: Thursday, February 25, 2021 1:28 PM
To: Seth Jaffe (sjaffe@fhe.com); Curtis J. Shipley (curtis.shipley@elliswinters.com); Joe Montello (jmontello@republicservices.com); Robert P. Sullivan
Cc: Marian Steimke
Subject: FW: EPA Update and Public meeting information for the Coakley Landfill Site
Attachments: Draft Agenda Coakley meeting March 3 2021.pdf

FYI

From: Dumville, Kelsey [mailto:Dumville.Kelsey@epa.gov]
Sent: Wednesday, February 24, 2021 4:22 PM
Cc: Hull, Richard; andrew.hoffman@des.nh.gov; Peter L. Britz
Subject: EPA Update and Public meeting information for the Coakley Landfill Site

Good afternoon,

Please see the attached draft agenda for details on the upcoming virtual meeting on the Coakley Landfill Superfund Site, which will be held next Wednesday, March 3, 2021 from 6:30 – 8 pm. The meeting will be held via Microsoft Teams, details to access the meeting are below.

In advance of the meeting, below is a brief update on the site status and links to documents that have been added to the Site profile webpage (www.epa.gov/superfund/coakley) since our last update was sent out via email in November 2020. Direct links to the documents are provided below.

March 3, 2021 Virtual Public Meeting Details and Meeting Link:

Microsoft Teams meeting

Join on your computer or mobile app

[Click here to join the meeting](#)

Or call in (audio only)

+1 857-299-6148,,323149543# United States, Boston

Phone Conference ID: 323 149 543#

[Find a local number](#) | [Reset PIN](#)

By participating in EPA hosted virtual meetings and events, you are consenting to abide by the agency's terms of use. In addition, you acknowledge that content you post may be collected and used in support of FOIA and eDiscovery activities.

[Learn More](#) | [Meeting options](#)

EPA Update on the Coakley Landfill Site

Please see the update below regarding the Coakley Landfill Superfund Site, including actions taken by the Coakley Landfill Group (CLG). Also note the documents that have been added to the Site profile webpage (www.epa.gov/superfund/coakley) since our last update was sent out via email on November 2, 2020. Direct links to the documents are provided below.

Record item

VIII-E 3-3-2021

- In response to NH House Bill 494 (HB494) CLG conducted a pilot study using bioavailable absorbent media (BAM) contained in flow-through mats that were deployed in Berrys Brook to test the efficiency of reducing PFAS loading in Berrys Brook. Three BAM-filled mats were placed in Berrys Brook just south of the Breakfast Hill Road crossing for three weeks. Three rounds of pre- and post-treatment water quality samples were collected from Berrys Brook and analyzed for PFAS. CLG is currently compiling the results and developing a report for submission to the agencies.
- The CLG's contractor conducted a semi-annual sampling round, including the sampling of more than 20 private wells, in October 2020, with the continued implementation of stringent health and safety protocols. Results were provided to the private well owners in January 2021.
- On October 21, 2020, the CLG submitted a workplan for performing a groundwater pumping test to further characterize groundwater flow in bedrock. EPA and NHDES provided comments back to CLG, which responded to the comments and revised the workplan on November 20, 2020. EPA and NHDES ultimately approved the workplan, with conditions, on December 15, 2020.
- A new bedrock borehole was drilled on NHDOT property to the west of the landfill in January and February 2021. The borehole was installed to allow for location-specific sampling of bedrock groundwater as part of the ongoing bedrock investigation. The borehole will also be used for monitoring during an upcoming groundwater pumping test to be performed in the coming months. The pumping test schedule was pushed from Fall-2020 to Spring-2021, due to delays associated with gaining access for the new well and with technical issues related to drilling the new well. The pumping test is anticipated to be one of the final field activities in the bedrock investigation.
- EPA has initiated the fifth Five-Year Review for the Coakley Landfill site. The five-year review process allows for the periodic review of the effectiveness of the remedial actions implemented at a site. The fifth Five-Year Review includes community and stakeholder input, and is scheduled to be published in September 2021.

1/19/2021 FALL 2020 PRIVATE WATER SUPPLY WELL SAMPLING RESULTS
<https://semspub.epa.gov/work/01/100016382.pdf>

12/17/2020 EPA COMMENTS ON DRAFT 2019 ANNUAL SUMMARY REPORT DATED 07/31/2020
<https://semspub.epa.gov/work/01/100016022.pdf>

12/15/2020 LETTER REGARDING CONDITIONAL APPROVAL OF 11/20/2020 REPOSENSE TO COMMENTS FOR DRAFT DEEP BEDROCK INVESTIGATION PUMPING TEST WORK PLAN AND REVISED PUMPING TEST WORK PLAN
<https://semspub.epa.gov/work/01/100016014.pdf>

11/1/2020 DEEP BEDROCK INVESTIGATION - RESPONSE TO COMMENTS AND PUMPING TEST WORK PLAN
<https://semspub.epa.gov/work/01/100015955.pdf>

Kelsey Dumville
 Public Affairs Office
 Senior Community Involvement Coordinator
 Office: 617-918-1003
 Cell: 857-998-0226

Virtual Public Meeting – Coakley Landfill Superfund Site*
March 3, 2021 6:30 PM to 8 PM

- 6:30** **Introductions and Agenda Review, *Kelsey Dumville, EPA***
- 6:40** **EPA Update and Current Status, *Skip Hull, EPA***
- Site History and Background
 - Ongoing Investigations
 - Five Year Review
- 6:55** **NHDES Update and Current Status of Private Well Sampling, *Drew Hoffman, NHDES***
- 7:10** **Project Updates, *Peter Britz, CLG, and Chris Buckman / Haley Ward, Consultant to CLG***
- 7:30** **Question and Answer, *via online chat and phoneline***
- 8:00** **Adjourn**

* Each agenda item will involve a short presentation and will leave time for clarifying questions and answers. Presenters will attempt to answer questions right away, however certain questions require additional follow-up and we will work to do so following the presentation-portion of the meeting.

Memo

To: Coakley Executive Committee
From: Peter Britz, Coakley Coordinator
Date: April 14, 2021
Re: Activity report

Deep Bedrock Study

With MW-25 well complete and blockage removed the downhole geophysics was conducted and results provided to EPA/NHDES. Packer sampling intervals were recommended and regulators agreed with minor changes. Final packer sampling was conducted and water quality samples were collected from the various packer depths. The analytical results have come in but are still in draft form. These results will be compiled and MW-25 will be monitored during the pump test at MW-6.

PFOSA Investigation

In coordination with the Coakley Landfill Group and EPA and DES Haley Ward has developed a scope of work for a contractor specializing in lab data analysis and review to go over the sampling results over the last three rounds of sampling where PFOSA samples were collected. The goal of the work is to help clarify the results received on PFOSA and better understand the results.

Landfill Gas Data Collection

On March 31 the Group's contractor went to monitor landfill gas at the site. Annually we review four landfill gas vents adjacent to the capped landfill. Every five years two additional vents are monitored. This is a year where all six vents are being monitored. The results should be received in a report over the next week or two.

HB-494 Pilot Treatment Study

The results of the treatment pilot study are documented in the report provided by CES. We have begun investigation next steps for a follow-up to the pilot study and will work on developing an approach with assistance from specific vendors who work on this technology. The report is attached as: *HB494 Treatment Pilot Study Results Memo_03-15-2021.pdf*

Spring Sampling

CES has provided a contract for the Spring 2021 sampling round. The contract is exactly the same cost as the Spring 2020 contract. Recommend that this contract be signed by the chair so we can conduct the sampling the beginning of May. Please find the contract attached as: *2021-04-13 CLG Spring 2021 Sampling Proposal.pdf*

COAKLEY EXECUTIVE COMMITTEE

Wednesday, April 14, 2021

AGENDA

9:30 a.m., Teleconference

Per NH RSA 91-A:2, III (b) the Chair has declared COVID-19 outbreak an emergency and has waived the requirement that a quorum be physically present at the meeting pursuant to the Governor's Executive Order 2020-04, Section 8, as extended by Executive Order 2021-05 and Emergency Order #12, Section 3. Members will be participating remotely and will identify their location and any person present with them at that location. All votes will be by roll call.

Please use the following to call in to the meeting:

Conference Call Dial-in #: **603-766-5646**

Conference ID: **393626**

- I. Review the minutes of the March 3, 2021 Coakley Teleconference call.

OU-1

II. BILLS

City of Portsmouth

- | | | | | |
|----|---|----------------|-----|------------|
| A. | Invoice # 2900762261 | dated 3/8/2021 | 50% | \$2,750.00 |
| | Peter Britz & Financial services - 3/2021 | | | |

Haley Ward (CES) Payment Certification dated: 4/14/2021
Invoices dated; 12/23/2020
Services rendered through: 11/29/2020

- | | | | |
|----|------------------------------|-----|------------|
| B. | Invoice # 20205581 | 35% | \$495.25 |
| | General Technical Assistance | | |
| C. | Invoice # 20205584 | 35% | \$511.87 |
| | 2020 Spring Sampling | | |
| D. | Invoice # 20205585 | 35% | \$6,328.35 |
| | Fall 2020 Sampling | | |

Haley Ward (CES) Payment Certification dated: 4/14/2021
 Invoices dated; 2/26/2021
 Services rendered through: 1/31/2021

E. Invoice # 20206593 35% \$591.50
 General technical Support

F. Invoice # 20206596 35% \$333.26
 Fall 2020 Sampling

Haley Ward (CES) Payment Certification dated: 4/14/2021
 Invoices dated; 3/24/2021
 Services rendered through: 2/28/2021

G. Invoice # 20206942 35% \$808.50
 General technical Support

H. Invoice # 20206945 35% \$2,148.88
 Fall 2020 Sampling

III. **OU - 1 ACTION ITEMS**

There were no action items.

IV. **OU - 1 RECORD ITEMS**

A. OU – 1 Balance as of 4/12/2021: **\$250,404.57**

OU-2

V. **BILLS**

City of Portsmouth

A. Invoice # 2900762261 dated 3/8/2021 50% \$2,750.00
 Peter Britz & Financial services - 3/2021

Haley Ward (CES) Payment Certifications dated: 4/14/2021
 Invoices dated: 12/23/2020
 Services rendered through: 11/29/2020

B.	Invoice # 20205581 General Technical Assistance	65%	\$919.75
C.	Invoice # 20205582 Bedrock Investigation Activities	100%	\$9,115.20
D.	Invoice # 20205583 Tech Assistance, Deployment & Sampling	100%	\$3,374.85
E.	Invoice # 20205584 2020 Spring Sampling	65%	\$950.63
F.	Invoice # 20205585 Fall 2020 Sampling	65%	\$11,752.65

Haley Ward (CES) Payment Certifications dated: 4/14/2021
 Invoices dated: 2/26/2021
 Services rendered through: 1/31/2021

G.	Invoice # 20206593 General technical Support	65%	\$1,098.50
H.	Invoice # 20206594 Bedrock Investigation Activities	100%	\$46,109.32
I.	Invoice # 20206595 Stormwater Work Plan, Fall 2018 Sampling & Out of Scope	100%	\$1,397.50
J.	Invoice # 20206596 Fall 2020 Sampling	65%	\$618.90

Haley Ward (CES) Payment Certifications dated: 4/14/2021
 Invoices dated: 3/24/2021
 Services rendered through: 2/28/2021

K.	Invoice # 20206942 General technical Support	65%	\$1,501.50
L.	Invoice # 20206943 Bedrock Investigation Activities	100%	\$31,763.50

M.	Invoice # 20206944 Stormwater Monitoring	100%	\$2,030.00
N.	Invoice # 20206945 Fall 2020 Sampling	65%	\$3,990.77

VI. OU - 2 RECORD ITEMS

A. OU-2 Balance as of 4/12/2021: **\$655,389.88**

COMBINED OU-1 & OU-2

VII. COMBINED OU – 1 & OU – 2 ACTION ITEMS

A. Report of Peter Britz of the City of Portsmouth dated 4/14/2021

VIII. COMBINED OU – 1 & OU – 2 RECORD ITEMS

A. Approved Minutes of the Coakley Executive Committee 1/13/2021 meeting; approved on 3/3/2021; executed on 3/8/2021.

IX. OTHER BUSINESS

X. SCHEDULE THE NEXT COAKLEY EXECUTIVE COMMITTEE MEETING



HALEY WARD

ENGINEERING | ENVIRONMENTAL | SURVEYING

FORMERLY:
CES INC

April 13, 2021

Mr. Peter Britz
Coakley Project Coordinator
Coakley Landfill Group
1 Junkins Avenue
Portsmouth, New Hampshire 03801

**Re: Proposal for Spring 2021 Sampling and Reporting | Coakley Landfill Superfund Site | North Hampton and Greenland, New Hampshire
Contract No. 10424028-01**

Dear Peter:

Haley Ward, Inc. (Haley Ward) is pleased to submit the following proposal for sampling and reporting services to the Coakley Landfill Group (CLG). The Scope of Services for this proposal is based upon correspondence between the CLG, United States Environmental Protection Agency (USEPA), and New Hampshire Department of Environmental Services (NHDES) regarding the bi-annual sampling event scheduled for Spring 2021.

The following tasks and associated costs are based on previous bi-annual sampling events completed in accordance with the Sampling and Analysis Plan (SAP) and incorporates USEPA comments (made via email correspondence on August 22, 2019) to recommendations included with the Draft 2019 Annual Summary Report and USEPA response to the March 23, 2020 Proposed Groundwater Sampling Program Revisions Memo (received on March 27, 2020 via email correspondence).

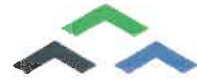
SCOPE OF SERVICES

The Coakley Landfill SAP requires the following scope of sampling services be completed during the Spring 2021 bi-annual long-term monitoring event with revisions made to the scope based on USEPA correspondence on August 22, 2019 and March 27, 2020. Sampling activities will be completed in accordance with the SAP with changes to the sampling frequency and list of proposed sample analysis noted accordingly. It should be noted that all PFAS analysis will include a list of 26 PFAS compounds and analyzed by liquid chromatography with tandem mass spectrometry (LC/MS/MS). The following Scope of Services does not include efforts

Mr. Peter Britz | 04.13.2021 | 10424.028 | Page 1



415 Lisbon Street, Suite 200, Lewiston, ME 04240
T: 207.795.6009 | HALEYWARD.COM



required to complete any replicate sampling or investigation into the analysis for perfluorooctanesulfonamide (PFOSA) as requested in a letter from the USEPA dated March 10, 2021. This letter requested replicate sampling; however, a work plan based on the findings of a third-party quality assurance firm is ongoing and will be prepared following receipt of its results.

Task 1A | Bi-Annual Water Quality Sampling - Private Water Supply Well Sampling:

A total of 25 offsite private water supply wells are sampled as part of the current groundwater monitoring program. Sampling of private water supply wells remains in accordance with the current SAP; however, sampling analysis was reduced to only include per- and poly-fluoroalkyl substances (PFAS), 1,4-dioxane, and general water quality field parameters. This reduction in analytes (arsenic and manganese removed) was implemented during Fall 2019, in accordance with USEPA approval on August 22, 2019. Private water supply wells that will be sampled in the Spring of 2021 will be the same as the list of wells sampled in the Fall of 2020. This includes the addition of 14 Pinewood Circle in 2020 to replace the residential well at 67 Ridgecrest Drive.

- The physical condition and security of all private water supply sampling locations will be evaluated at the time of sample collection. This evaluation will be documented on field sheets and include water treatment systems, if any, sampling location within the property, and any other observations made at the time of sample collection. *[Note that this information is necessary to complete the Annual Institutional Control Plan Inspection Report.]*
- Collect samples from 25 private water supply wells as included on **Table 1**. Analysis will be reduced to include only 1,4-dioxane and PFAS in accordance with USEPA approval.
- Collect quality assurance/quality control (QA/QC) samples in accordance with the project SAP. These include two duplicate samples, a matrix spike/matrix spike duplicate (MS/MSD), equipment rinsate blank, and field blank.

Similar to the Fall 2020 bi-annual sampling event, it is proposed that the sampling of these wells occur at the beginning of the event as a separate field effort to expedite sample results and data validation.

Task 1B | Bi-Annual Water Quality Sampling: OU-1/OU-2 Groundwater Sampling:

The CLG currently samples a total of 11 OU-1 wells and 38 OU-2 wells. The groundwater sampling efforts within OU-1/OU-2 will include the following:

- Collect groundwater samples from 49 groundwater monitoring wells as included on **Table 2**. Analysis during the Spring 2021 event will be conducted in accordance with the SAP.
- Measure depth to water level at 63 monitoring wells.
- The physical condition and security of all sampling locations will be evaluated, and this evaluation will be documented on field sheets. *[Note that this information is necessary to complete the Annual Institutional Control Plan Inspection Report.]*



- Collect quality assurance/quality control (QA/QC) samples in accordance with the project SAP. These include four duplicate samples, three MS/MSD samples, and one equipment rinsate blank.

Task 1C | Bi-Annual Water Quality Sampling: Surface Water/Sediment Sampling:

The CLG currently samples a total of eight surface water, seven sediment, and one landfill seep as part of its biannual sampling event. Sampling locations have not changed since 2017.

- Collect surface water samples from eight sampling locations (SW-4, SW-5, SW-103, SW-110, SW-111, SW-LR, SW-BB1, and SW-BB2) if sufficient water is present. Analysis during the Spring 2021 event will be conducted in accordance with the SAP, with the exception VOC's, which were removed as per CLG recommendation and approved by USEPA via its email dated March 27, 2020.
- Collect a sample from the L-1 seep sampling location if sufficient water is present. Analysis during the Spring 2021 event will be conducted in accordance with the SAP.
- Collect sediment sampling from seven sampling locations (SW-5, SW-103, SW-110, SW-111, SW-LR, SW-BB1, and SW-BB2). Analysis during the Spring 2021 event will be conducted in accordance with the SAP.
- Collect quality assurance/quality control (QA/QC) samples in accordance with the project SAP. These include three duplicate samples and two matrix spike/matrix spike duplicates, and one equipment rinsate blank.

All water quality samples will be analyzed for field parameters using portable field instrumentation. Field instruments will be calibrated in accordance with requirements contained in the SAP.

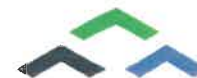
Eastern Analytical, Inc. (EAI) of Concord, New Hampshire will provide the required analytical laboratory services for VOCs, 1,4-dioxane, metals, and general landfill parameters. Vista Analytical laboratory of El Dorado Hills, California (Vista) will provide the required analytical laboratory services for PFAS analysis. EAI and Vista will provide the laboratory data in standard PDF report and in a Microsoft Excel database format with supporting documentation to complete data validation following receipt of laboratory reports.

Task 2 | Spring 2021 Bi-Annual Sampling Event: Data Validation:

A Tier 1 data validation process will be completed by Quality Assurance Associates based in College Station, Texas and will invoice Haley Ward directly for data validation services completed. Data validation services will be completed in accordance with the SAP and QAPP. As discussed in **Task 1A**, private water supply well samples may be collected as part of a separate field effort with validation performed apart from OU-1/OU-2 groundwater, leachate seep, surface water, and sediment samples.

Task 3 | 2021 Bi-Annual Data Report Preparation:

Haley Ward will prepare a 2021 Bi-Annual Data Report that will include a review of analytical data, preparation of summary tables, a report for review by the CLG, USEPA, and NHDES. Haley Ward will provide the CLG with a "universal" database file including analytical laboratory results and results of the Tier 1 Plus data validation.



IMPLEMENTATION AND SCHEDULE

It is estimated that up to 12 field days with two field staff will be required to complete the Spring 2021 monitoring event. Time is also included for scheduling sampling at residences, calibration of field equipment prior to the sampling event (as required by the SAP), mobilization, and demobilization. Sampling costs include all labor, expenses, instrument rentals, and associated supplies. It is anticipated private water supply sampling will occur prior to OU-1/OU-2 groundwater and surface water sampling. In the event that a private water supply well cannot be sampled at this time, necessary arrangements will be made for that well to be sampled during the completion of the OU-1/OU-2 groundwater sampling efforts outlined in **Task 1B** and **Task 1C**.

COMPENSATION

Haley Ward proposes the following not-to-exceed costs for the above-mentioned tasks, as well as the breakdown for each task.

TASK	DESCRIPTION	COST ESTIMATE
1A	Private Water Supply Well Sampling <ul style="list-style-type: none">Collect drinking water samples from 25 private water supply wells.Collect requisite QA/QC samples.Provide laboratory report of results with full QA/QC data.	Haley Ward Labor/Expenses: \$10,600.00 Analytical Costs: \$12,800.00
1B	OU-1/OU-2 Groundwater Sampling <ul style="list-style-type: none">Analyze groundwater, surface water, water supply well, sediment, and seep samples.Collect requisite QA/QC samples.Provide laboratory report of results with full QA/QC data.	Haley Ward Labor/Expenses: \$26,700.00 Analytical Costs: \$35,200.00
1C	Surface Water/Sediment Sampling <ul style="list-style-type: none">Collect surface water samples from SW-4, SW-5, SW-103, SW-110, SW-111, SW-LR, SW-BB1, and SW-BB2.Collect sediment samples from SED-5, SED-103, SED-110, SED-111, SED-LR, SED-BB1, and SED-BB2.Collect a sample from the L-1 seep location.Collect requisite QA/QC samples.Provide laboratory report of results with full QA/QC data.	Haley Ward Labor/Expenses: \$3,050.00 Analytical Costs: \$17,930.00



TASK	DESCRIPTION	COST ESTIMATE
2	Data Validation <ul style="list-style-type: none">• Complete data validation on 24 private water supply samples with expanded list of PFAS compounds and 1,4-dioxane.• Perform data validation on 48 OU-1/OU-2 groundwater monitoring wells.• Complete data validation of 8 surface water, 7 sediment, and the L-1 seep sample results.	Subcontractor Costs: \$8,250.00
3	2021 Bi-Annual Report Preparation <ul style="list-style-type: none">• Review laboratory data.• Prepare summary tables and groundwater contour figures.• Prepare draft and final reports for review by the CLG, USEPA, and NHDES.	Haley Ward Labor/Expenses: \$10,510.00
	TOTAL	\$125,040.00

The not-to-exceed budget listed above includes costs associated with sampling equipment/meters and consumables (filters, tubing, etc.), sub-contractors, labor, report preparation, and reimbursable expenses.

Costs for this project will be invoiced monthly, based upon the work completed during the invoice period with updates to project budget and remaining scope provided when 25 percent of the budget remains. Haley Ward is prepared to initiate work on this project upon receipt of a signed copy of the attached Service Agreement **Attachment B**.

ASSUMPTIONS

The following assumptions were used in the development of the cost estimate provided above and are based on the authorization by USEPA of recommendations provided in the 2019 Annual Summary Report and the March 23, 2020 Proposed Groundwater Sampling Program Revisions Memo. This authorization was provided via email correspondence by Mr. Richard Hull of the USEPA to the CLG on August 22, 2019 and March 27, 2020, respectively.

- The completion of sediment sampling during Spring 2021 qualifies as the single annual event requested by the CLG and authorization provided by the USEPA in its correspondence of August 22, 2019.



- The completion of Spring 2021 sampling at OU-1 and OU-2 groundwater monitoring wells for all parameters (i.e., PFAS, VOCs, 1,4-dioxane) will qualify as the single annual event for the sampling of all parameters with Fall 2021 sampling comprised only of sampling/analysis for 1,4-dioxane and an expanded list of PFAS compounds.
- Private water supply wells (i.e., residential wells) will only be sampled/analyzed for 1,4-dioxane, PFAS, and field parameters.
- Analysis of surface water samples will not include VOCs in accordance with USEPA approval provided on March 27, 2020.

AUTHORIZATION

If this proposal is acceptable to CLG, please sign in the approval block and return a signed copy for our files. Haley Ward will return a signed and executed copy of this authorization for CLG files. Haley Ward is prepared to initiate work on this project upon receipt of a signed copy of this proposal. Out of scope services will not be performed without prior written approval of CLG.

Certificates of insurance are included as **Attachment C**.

If you have any questions concerning this proposal or if additional services are needed, please contact any of the undersigned at (207) 795-6009. We appreciate this opportunity to be of service to the CLG.

Sincerely,
Haley Ward, Inc.

Christopher Buckman, P.G.
Senior Project Manager

John Pond, Executive Vice President
Environmental Division Director

CFB/JAP/jok
Enc.

Acceptance and Authorization to Proceed on behalf of Coakley Landfill Group:

Signature: _____ Billing Address: _____

Printed Name: _____ City/State/ZIP: _____

Date: _____ Email (Optional): _____

Phone: _____ Fax: _____



Acceptance on behalf of Haley Ward, Inc.:

Signature: _____ Billing Address: _____

Printed Name: _____ City/State/ZIP: _____

Date: _____ Email (Optional): _____

Phone: _____ Fax: _____



TABLE 1

**PRIVATE WATER SUPPLY SAMPLING
ANALYSES AND LOCATIONS**

Table 1 - Private Water Supply Sampling Analyses and Locations
Coakley Landfill Superfund Site - Breakfast Hill Road, North Hampton & Greenland, NH
Spring 2021 Sampling Event

MATRIX	PRIMARY OR QA/QC	SAMPLE ID	PFAS (List of 26)	1,4-Dioxane (EPA 522)
AQUEOUS	EQUIP BLANK	DW-EB-APPARATUS	X	X
DRINKING WATER	PRIMARY	DW-R-3	X	X
DRINKING WATER	MS	DW-R-3-MS	X	X
DRINKING WATER	MSD	DW-R-3-MSD	X	X
DRINKING WATER	DUPLICATE	DW-R-3-DUP	X	X
DRINKING WATER	PRIMARY	DW-R-5	X	X
DRINKING WATER	PRIMARY	DW-R-346BHR	X	X
DRINKING WATER	PRIMARY	DW-R-339BHR	X	X
DRINKING WATER	PRIMARY	DW-R-415BHR	X	X
DRINKING WATER	PRIMARY	DW-R-340BHR	X	X
DRINKING WATER	PRIMARY	DW-R-463BHR	X	X
DRINKING WATER	PRIMARY	DW-R-4ROD	X	X
DRINKING WATER	PRIMARY	DW-R-10ROD	X	X
DRINKING WATER	PRIMARY	DW-R-25FW	X	X
DRINKING WATER	PRIMARY	DW-R-14PWC*	X	X
DRINKING WATER	PRIMARY	DW-R-5BFL	X	X
DRINKING WATER	PRIMARY	DW-R-9BFL	X	X
DRINKING WATER	PRIMARY	DW-R-15BFL	X	X
DRINKING WATER	PRIMARY	DW-R-4SMW	X	X
DRINKING WATER	PRIMARY	DW-R-9SMW	X	X
DRINKING WATER	PRIMARY	DW-R-10SMW	X	X
DRINKING WATER	PRIMARY	DW-R-16SMW	X	X
DRINKING WATER	PRIMARY	DW-R-19SMW	X	X
DRINKING WATER	PRIMARY	DW-R-21SMW	X	X
DRINKING WATER	DUPLICATE	DW-R-21SMW-DUP	X	X
DRINKING WATER	PRIMARY	DW-R-25SMW	X	X
DRINKING WATER	PRIMARY	DW-R-7WKD	X	X
DRINKING WATER	PRIMARY	DW-R-8WKD	X	X
DRINKING WATER	PRIMARY	DW-R-67NR	X	X
DRINKING WATER	PRIMARY	DW-R-178ALR	X	X
DRINKING WATER	PRIMARY	DW-R-27BR	X	X
TOTALS			31	31

*14 Pinewood Circle (14PWC) replaced previous sampling at 67 Ridgcrest Drive (67RCD) beginning Fall 2019.

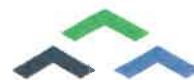


TABLE 2

**GROUNDWATER AND SURFACE WATER
SAMPLING ANALYSES**

Table 2 - Groundwater and Surface Water Sampling Analyses
Coakley Landfill Superfund Site - Breakfast Hill Road, North Hampton & Greenland, NH
Spring 2021 Sampling Event

Spring 2021 Sampling Event											
			Metals			VOCs			General Chem.		
MATRIX	PRIMARY OR QA/QC	SAMPLE ID	SED-Metals 8020	SW-L-Metals 100.3	GW-Metals 200.8	VOC-4260B	1,4-Dioxane (8260B SIM)	PFAS (Modified EPA 537) List of 28	COD Hach 8000	Ammonia SM 4500 NH3-D	%Solids
AQUEOUS	EQUIP BLANK	SW-EB-FILTER SYRINGE		X							
AQUEOUS	EQUIP BLANK	GW-EB-METAL FILTER									
AQUEOUS	EQUIP BLANK	S-EB-SEDIMENT									
AQUEOUS	EQUIP BLANK	GW-EB-WATER LEVEL					X	X			
AQUEOUS	FIELD BLANK	FB-DI WATER		X			X	X			
AQUEOUS	PRIMARY	GW-AE-1A					X	X			
AQUEOUS	PRIMARY	GW-AE-1B					X	X			
AQUEOUS	PRIMARY	GW-AE-2A					X	X			
AQUEOUS	PRIMARY	GW-AE-2B					X	X			
AQUEOUS	PRIMARY	GW-AE-3A					X	X			
AQUEOUS	DUPLICATE	GW-AE-2A-DUP					X	X			
AQUEOUS	DUPLICATE	GW-AE-2B-DUP					X	X			
AQUEOUS	DUPLICATE	GW-AE-3A-DUP					X	X			
AQUEOUS	PRIMARY	GW-AE-3B					X	X			
AQUEOUS	PRIMARY	GW-AE-4A					X	X			
AQUEOUS	PRIMARY	GW-AE-4B					X	X			
AQUEOUS	PRIMARY	GW-BP-4					X	X			
AQUEOUS	PRIMARY	GW-FPC-11A					X	X			
AQUEOUS	PRIMARY	GW-FPC-11B					X	X			
AQUEOUS	PRIMARY	GW-FPC-2A					X	X			
AQUEOUS	PRIMARY	GW-FPC-2B					X	X			
AQUEOUS	PRIMARY	GW-FPC-3A					X	X			
AQUEOUS	PRIMARY	GW-FPC-3B					X	X			
AQUEOUS	PRIMARY	GW-FPC-3C					X	X			
AQUEOUS	PRIMARY	GW-FPC-4B					X	X			
AQUEOUS	PRIMARY	GW-FPC-5A					X	X			
AQUEOUS	PRIMARY	GW-FPC-5B					X	X			
AQUEOUS	PRIMARY	GW-FPC-6A					X	X			
AQUEOUS	PRIMARY	GW-FPC-6B					X	X			
AQUEOUS	PRIMARY	GW-FPC-7A					X	X			
AQUEOUS	PRIMARY	GW-FPC-7B					X	X			
AQUEOUS	PRIMARY	GW-FPC-8A					X	X			
AQUEOUS	PRIMARY	GW-FPC-8B					X	X			
AQUEOUS	PRIMARY	GW-FPC-9A					X	X			
AQUEOUS	PRIMARY	GW-GZ-105					X	X			
AQUEOUS	DUPLICATE	GW-GZ-105-DUP					X	X			
AQUEOUS	PRIMARY	GW-MW-10					X	X			
AQUEOUS	PRIMARY	GW-MW-11					X	X			
AQUEOUS	PRIMARY	GW-MW-20S					X	X			
AQUEOUS	PRIMARY	GW-MW-20D1					X	X			
AQUEOUS	DUPLICATE	GW-MW-20D1-DUP					X	X			
AQUEOUS	DUPLICATE	GW-MW-20D1-DUP					X	X			
AQUEOUS	PRIMARY	GW-MW-20D2					X	X			
AQUEOUS	PRIMARY	GW-MW-21S					X	X			
AQUEOUS	PRIMARY	GW-MW-21D1					X	X			
AQUEOUS	PRIMARY	GW-MW-21D2					X	X			
AQUEOUS	PRIMARY	GW-MW-22S					X	X			
AQUEOUS	PRIMARY	GW-MW-22D1					X	X			
AQUEOUS	PRIMARY	GW-MW-22D2					X	X			
AQUEOUS	PRIMARY	GW-MW-4					X	X			
AQUEOUS	DUPLICATE	GW-MW-4-DUP					X	X			
AQUEOUS	PRIMARY	GW-MW-5D					X	X			
AQUEOUS	PRIMARY	GW-MW-5S					X	X			
AQUEOUS	PRIMARY	GW-MW-6					X	X			
AQUEOUS	PRIMARY	GW-MW-8					X	X			
AQUEOUS	DUPLICATE	GW-MW-8-DUP					X	X			
AQUEOUS	DUPLICATE	GW-MW-8-DUP					X	X			
AQUEOUS	PRIMARY	GW-MW-9					X	X			
AQUEOUS	PRIMARY	GW-OP-2					X	X			
AQUEOUS	PRIMARY	GW-OP-5					X	X			
AQUEOUS	PRIMARY	GW-QZ-109					X	X			
AQUEOUS	PRIMARY	GW-QZ-117					X	X			
AQUEOUS	PRIMARY	LL-L-1		X		X	X	X	X	X	
AQUEOUS	DUPLICATE	LL-L-1-DUP		X		X	X	X	X	X	
AQUEOUS	DUPLICATE	LL-L-1-DUP		X		X	X	X	X	X	
AQUEOUS	DUPLICATE	LL-L-1-DUP		X		X	X	X	X	X	
AQUEOUS	PRIMARY	SW-SW-103		X		X	X	X		X	
AQUEOUS	PRIMARY	SW-SW-4		X		X	X	X		X	
AQUEOUS	PRIMARY	SW-SW-5		X		X	X	X		X	
AQUEOUS	DUPLICATE	SW-SW-103-DUP		X		X	X	X		X	
AQUEOUS	DUPLICATE	SW-SW-4-DUP		X		X	X	X		X	
AQUEOUS	DUPLICATE	SW-SW-5-DUP		X		X	X	X		X	
AQUEOUS	PRIMARY	SW-SW-110		X		X	X	X		X	
AQUEOUS	PRIMARY	SW-SW-111		X		X	X	X		X	
AQUEOUS	PRIMARY	SW-SW-LR		X		X	X	X		X	
AQUEOUS	PRIMARY	SW-SW-BB1		X		X	X	X		X	
AQUEOUS	PRIMARY	SW-SW-BB2		X		X	X	X		X	
TOTALS			0	17	0	15	75	75	4	15	0



ATTACHMENT A

EXPANDED 26 COMPOUND PFAS LIST



**ATTACHMENT A
EXPANDED PFAS ANALYTE LIST**

ANALYTE		CAS No.
PFPeA	Perfluoropentanoic Acid	2706903
PFBS	Perfluorobutane Sulfonic Acid	375735
PFBA	Perfluorobutanoic Acid	375224
PFUnA	Perfluoroundecanoic Acid	2058948
PFTrDA	Perfluorotridecanoate	862374876
PFTeDA	Perfluorotetradecanoic Acid	376067
PFOSA	Perfluorooctane Sulfonamide	754916
PFOS	Perfluorooctane Sulfonate	1763231
PFOA	Pentadecafluorooctanoic Acid	335671
PFNA	Perfluorononanoic Acid	375951
PFHxS	Perfluorohexane Sulfonate	355464
PFHxDA	Perfluorohexadecanoic Acid	67905195
PFHxA	Perfluorohexanoic Acid	307244
PFHpS	Perfluoroheptane Sulfonic Acid	375928
PFHpA	Perfluoroheptanoic Acid	375859
PFDS	Perfluorodecane Sulfonate	67906427
PFDoA	Perfluorododecanoic Acid	307551
PFDA	Perfluorodecanoic Acid	335762
MeFOSE	N-Methyl Perfluorooctane Sulfonamidoethanol	24448097
MeFOSAA	N-Methyl Perfluorooctane Sulfonamidoacetic Acid	2355319
MeFOSA	N-Methyl Perfluorooctane Sulfonamide	31506328
EtFOSE	N-Ethyl Perfluorooctane Sulfonamidoethanol	1691992
EtFOSAA	N-Ethyl Perfluorooctane Sulfonamidoacetic Acid	2991506
EtFOSA	N-Ethyl Perfluorooctane Sulfonamide	4151502
8:2 FTS	8:2 Fluorotelomer Sulfonate	39108344
6:2 FTS	6:2 Fluorotelomer Sulfonic Acid	27619972



ATTACHMENT B
SERVICE AGREEMENT



STANDARD CONDITIONS OF AGREEMENT BETWEEN HALEY WARD, INC. AND ITS CLIENTS

The terms and conditions contained in this Service Agreement will govern the services described in contract 10424028 dated April 13, 2021, prepared by Haley Ward, Inc. (Haley Ward) and submitted to:

The Coakley Landfill Group
c/o City of Portsmouth
One Junkins Avenue
Portsmouth, New Hampshire 03801

(referred to as "Client" in this agreement)

SECTION 1 | SCOPE OF SERVICE

- 1.1 Haley Ward agrees to perform the scope of services contained in the proposal, subject to unanticipated contingencies (as presented in part 7 of this Agreement).

SECTION 2 | PAYMENT TERMS

- 2.1 Unless specified in the proposal, services shall be charged on a time and material basis in accordance with the Fee Schedule included with the proposal. Haley Ward shall submit invoices on a monthly basis or as presented in the proposal and Client agrees to pay invoices within 60 days of the invoice date. If Client disputes any portion of the invoice, Client will notify Haley Ward of the disputed costs and will pay that portion not in dispute. For charges not disputed and not paid by the Client within 60 days, Haley Ward reserves the right to charge interest to the unpaid amount at a rate of 1-1/2% per month or up to the maximum allowed by law.

SECTION 3 | PROFESSIONAL RESPONSIBILITY

- 3.1 Haley Ward shall perform services in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. Haley Ward makes no other warranties or guarantees in the proposal or agreement.



SECTION 4 | LIMITATION OF LIABILITY

- 4.1 Haley Ward's liability shall be limited to injury or loss caused by the negligence, intentional misconduct or breach of contract by Haley Ward employees in the performance of the services described in the proposal. Liability shall be limited to the aggregate amount not to exceed the lesser amount of a) the damages suffered by the Client as a direct result of negligence, intentional misconduct or breach of contract, or b) the limits of the respective insurance policy.

SECTION 5 | OWNERSHIP OF DOCUMENTS

- 5.1 Copies of plans, specifications and reports prepared under this agreement shall be transferred, upon request, to the Client upon completion of the work. Project deliverables as identified in the Scope of Work will be provided to the Client and shall become the property of the Client. Haley Ward shall retain copies of all project documents for a period of three years.

SECTION 6 | UNANTICIPATED CONTINGENCIES

- 6.1 If Haley Ward is unable to perform the services within the schedule set forth in the proposal due to unanticipated contingencies, such as, but not limited to, a) strikes, riots, unavoidable accidents, acts of God, b) lawful orders issued by any federal, state or local government authority, or c) any other cause beyond Haley Ward's reasonable control, then Haley Ward shall not be liable to Client for failure to perform its obligations hereunder.

SECTION 7 | TERMINATION

- 7.1 The Client or Haley Ward may terminate performance of the scope of services for any reason by sending a written notice of termination to the other. The termination shall: (1) be effective no sooner than ten (10) working days after receipt of the notice, (2) be without prejudice to any claims unresolved between Haley Ward and the Client, and (3) be subject to the other provisions of this Agreement.

In the event of termination, the Client and Haley Ward shall maintain their legal rights and obligations as spelled out in this Agreement.



SECTION 8 | THIRD PARTY RIGHTS

8.1 Client and Haley Ward agree that the services performed pursuant to this Agreement are solely for the benefit of the Client and are not intended to benefit any other person or entity. This agreement shall not create any rights or benefits for a third party.

SECTION 9 | ASSIGNMENTS

9.1 Neither party to this Agreement shall assign its duties and obligations hereunder without the prior written consent of the other party.

SECTION 10 | CONFIDENTIALITY

10.1 Haley Ward and Client shall hold confidential all business or technical information obtained from the other for a period of three (3) years after obtaining such information, and during that period shall not disclose such information without the others consent except to the extent required to:

- (1) Perform the services governed by this Agreement,
- (2) Ensure public safety, health and welfare,
- (3) After providing the other party with written notice, comply with any court order or other governmental directive, and/or
- (4) Comply with applicable State and Federal Laws.

The parties' obligations do not apply to information in the public domain.

SECTION 11 | INSURANCE

11.1 During the performance of activities covered by this Agreement, Haley Ward agrees to maintain the following insurance coverage:

INSURANCE

LIMITS

- | | |
|--|-----------------------------|
| (1) Workers Compensation | Statutory |
| (2) General liability including leased or hired automobile liability | \$2,000,000 each occurrence |
| (3) Professional liability | \$1,000,000 each claim |



CLIENT

Coakley Landfill Group
Robert P. Sullivan, Esq.
Counsel to Coakley Landfill Group
Portsmouth Municipal Complex
One Junkins Avenue
Portsmouth, NH 03801

Signature

Typed Name

Title

Date

HALEY WARD, INC.

John A. Pond, Executive Vice President
One Merchants Plaza
Suite 701
Bangor, ME 04401



Signature

John A. Pond

Typed Name

Environmental Division Director

Title

04/13/2021

Date



ATTACHMENT C

CERTIFICATES OF INSURANCE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
12/09/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER		CONTACT NAME: Molly Alley	
Cross Insurance		PHONE (A/C, No, Ext): (207) 947-7345	
491 Main Street		FAX (A/C, No):	
P.O. Box 1388		E-MAIL ADDRESS: malley@crossagency.com	
Bangor ME 04401		INSURER(S) AFFORDING COVERAGE	
		INSURER A: The Phoenix Ins Co	
		INSURER B: The Charter Oak Fire Ins Co	
		INSURER C: Travelers Property Casualty Company of America	
		INSURER D: Maine Employers Mutual Ins Co	
		INSURER E: MEMIC Indemnity Company	
		INSURER F:	

COVERAGES **CERTIFICATE NUMBER:** CL2012941832 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY			P-630-8L253856-PHX-21	01/01/2021	01/01/2022	EACH OCCURRENCE	\$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	Y	DAMAGE TO RENTED PREMISES (Ea occurrence)				\$ 300,000	
	<input checked="" type="checkbox"/> Inc. Bkt Cont		MED EXP (Any one person)				\$ 5,000	
	GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		PERSONAL & ADV INJURY				\$ 1,000,000	
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY			810-8L295085-20-43-G	01/01/2021	01/01/2022	GENERAL AGGREGATE	\$ 2,000,000
	<input checked="" type="checkbox"/> ANY AUTO	Y	PRODUCTS - COMP/OP AGG				\$ 2,000,000	
	<input type="checkbox"/> OWNED AUTOS ONLY		Employee Benefits				\$ 1,000,000	
	<input checked="" type="checkbox"/> HIRED AUTOS ONLY		<input checked="" type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY				COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
C	<input checked="" type="checkbox"/> UMBRELLA LIAB			CUP-8L300794-20-43	01/01/2021	01/01/2022	BODILY INJURY (Per person)	\$
	<input type="checkbox"/> EXCESS LIAB	Y	BODILY INJURY (Per accident)				\$	
	<input type="checkbox"/> CLAIMS-MADE		PROPERTY DAMAGE (Per accident)				\$	
	DED <input checked="" type="checkbox"/> RETENTION \$ 10,000		Medical payments				\$ 5,000	
D	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			5101801109	12/31/2020	12/31/2021	EACH OCCURRENCE	\$ 10,000,000
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	AGGREGATE				\$ 10,000,000	
	Y/N <input checked="" type="checkbox"/> N		PER STATUTE <input checked="" type="checkbox"/> OTH-ER				\$	
			E.L. EACH ACCIDENT				\$ 1,000,000	
E	Workers' Compensation			3102806829	12/31/2020	12/31/2021	E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
		E.L. DISEASE - POLICY LIMIT	\$ 1,000,000					
		Each Accident	1,000,000					
		Disease-EA Employee	1,000,000					
							Disease-Polic Limit	1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

The Coakley Landfill Group are named as additional insureds.
Refer to policy for exclusionary endorsements and special provisions.

CERTIFICATE HOLDER

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Molly B. Alley



CESINC0-01

CJOHNSON

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

12/7/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Ames & Gough 859 Willard Street Suite 320 Quincy, MA 02169	CONTACT NAME: PHONE (A/C, No, Ext): (617) 328-6555 FAX (A/C, No): (617) 328-6888 E-MAIL ADDRESS: boston@amesgough.com	
	INSURER(S) AFFORDING COVERAGE INSURER A: Continental Casualty Company (CNA) A, XV 20443 INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:	
INSURED Haley Ward, Inc. (CES, Inc.) 1 Merchants Plaza, Suite 701 Bangor, ME 04401	NAIC #	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER: AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below		N/A				PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Prof. Liability			AEH591944970	12/8/2020	12/8/2021	Per Claim Limit 3,000,000
A				AEH591944970	12/8/2020	12/8/2021	Aggregate Limit 3,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
All Coverages are in accordance with the policy terms and conditions.

CERTIFICATE HOLDER

CANCELLATION

The Coakley Landfill Group
c/o City of Portsmouth
One Junkins Avenue
Portsmouth, NH 03801

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

COAKLEY EXECUTIVE COMMITTEE
Monday, June 28, 2021
AGENDA
9:00 a.m., Teleconference and Meeting
Conference Room A - Portsmouth City Hall

- I. Review the minutes of the May 19, 2021 Coakley Teleconference call.

OU-1

II. **BILLS**

City of Portsmouth

A.	Invoice # 2900891735	dated 6/11/2021	50%	\$2,750.00
	Peter Britz & Financial services - 6/2021			

Haley Ward (CES) Payment Certification dated: 6/28/2021
Invoices dated; 5/25/2021
Services rendered through: 4/25/2021

B.	Invoice # 20208002	35%	\$466.37
	General Technical Assistance		

C.	Invoice # 20208003	35%	\$4,569.69
	Fall 2020 Sampling		

D.	Invoice # 20208163	35%	\$556.06
	2021 Spring Sampling		

DC MacRitchie

Payment Certification dated: 6/28/2021
Invoice dated: 6/10/2021
Services rendered through: 5/19/2021

E.	Invoice # 205661	50%	\$1,656.00
	Professional Services		

III. OU - 1 ACTION ITEMS

There were no action items.

IV. OU - 1 RECORD ITEMS

A. OU – 1 Balance as of 6/16/2021: \$226,451.41

OU-2

V. BILLS

City of Portsmouth

A. Invoice # 2900891735 dated 6/11/2021 50% \$2,750.00
Peter Britz & Financial services - 6/2021

Haley Ward (CES) Payment Certifications dated: 6/28/2021
Invoices dated: 5/25/2021
Services rendered through: 4/25/2021

B. Invoice # 20208002 65% \$866.13
General Technical Assistance

C. Invoice # 20208001 100% \$39,526.72
Bedrock Investigation Activities

D. Invoice # 20208163 65% \$1,032.69
2021 Spring Sampling

E. Invoice # 20208003 65% \$8,486.56
Fall 2020 Sampling

DC MacRitchie Payment Certifications dated: 6/28/2021
Invoice dated: 6/10/2021
Services rendered through: 5/19/2021

F. Invoice # 205661 50% \$1,656.00
Professional Services

Advance Radon Mitigation

Payment Certification dated: 6/28/2021
Invoice dated: 5/27/2021
Services rendered through: 5/27/2021

G. Invoice#: PIN178 100% \$3,320.00
339 Breakfast Hill Rd. 1,4-Dioxane & PFAS
Sampling & lab fees; Maintenance

VI. OU - 2 RECORD ITEMS

A. OU-2 Balance as of 6/16/2021: **\$507,841.23**

COMBINED OU-1 & OU-2

VII. COMBINED OU – 1 & OU – 2 ACTION ITEMS

A. Report of Peter Britz of the City of Portsmouth dated 6/28/2021

VIII. COMBINED OU – 1 & OU – 2 RECORD ITEMS

A. Approved Minutes of the Coakley Executive Committee 4/14/2021 meeting; approved on 5/19/2021; executed on 5/19/2021.

IX. OTHER BUSINESS

X. SCHEDULE THE NEXT COAKLEY EXECUTIVE COMMITTEE MEETING

Memo

To: Coakley Executive Committee
From: Peter Britz, Coakley Coordinator
Date: June 28, 2021
Re: Activity report

Deep Bedrock Study

The variable rate pump test was conducted on June 15th and the 96 hour constant rate pump test was conducted the week of June 21 starting Monday morning. The constant rate pump test is using a rate just over twelve gallons per minute. When the test is complete the collected transducer information, heat pulse flow information and information about the response of the pumping well MW-6 will all be reviewed and included as appropriate in the deep bedrock investigation.

HB-494 Pilot Treatment Study

Work continues to design an effective system for treatment of water flowing into Berry's Brook. After discussion about various vendors to work on this study we are awaiting a proposal from XDD Environmental. The proposal will focus on the available technologies to treat water at the site and input to the group on what is the best approach given our situation.

Coakley Budget Projection

A draft budget projection for projected costs for OU-1 and OU-2 through 2042 is attached. As discussed this projection shows that we will have sufficient funds in both OU-1 and OU-2 trust accounts to pay for the planned work through the calendar year of 2021.

PFOSA Investigation

The replicate sampling and spiked replicate sampling as agreed upon by the agencies have been collected and sent to two labs to compare their findings. A contract amendment for the spring sampling round has been provided by Haley Ward to cover the additional work of running the PFOSA samples and analyzing the results. Please see attached contract amendment: *(2021-06-07 Contract Amendment_Spring 2021 Groundwater Sampling_10424028-02.pdf)*

Packer Sampling

This is an amendment to the deep Bedrock study where the agencies asked for additional packer sampling in the new well MW-25 as well as installation of a packer to isolate the upper part of the well and allow placement of a transducer in the well to be in place in order to gauge the response of this well during the pumping test. Please see attached contract amendment: *(2021-06-17 Contract Amendment Deep Bedrock Investigation_10424016-09)*

COAKLEY EXECUTIVE COMMITTEE
Teleconference and Meeting
AGENDA
Tuesday, August 24, 2021
10:00 AM
Law Library, Portsmouth City Hall

- I. Review the minutes of the June 28, 2021 Coakley Teleconference call.

OU-1

II. **BILLS**

City of Portsmouth

A.	Invoice # 2900949942	dated 7/20/2021	50%	\$2,750.00
	Peter Britz & Financial services - 7/2021			
B.	Invoice # 2900973411	dated 8/13/2021	50%	\$2,750.00
	Peter Britz & Financial services - 8/2021			

Haley Ward (CES) Payment Certification dated: 8/24/2021
 Invoices dated; 7/26/2021
 Services rendered through: 7/25/2021

C.	Invoice # 20209241	35%	\$1,251.25
	General Technical Assistance		
D.	Invoice # 20209244	35%	\$2,753.71
	2020 Spring Sampling		
E.	Invoice # 20209245	35%	\$1,412.20
	Fall 2020 Sampling		
F.	Invoice # 20209246	35%	\$33,715.33
	2021 Spring Sampling		

III. OU - 1 ACTION ITEMS

There were no action items.

IV. OU - 1 RECORD ITEMS

A. OU – 1 Balance as of 8/20/2021: \$216,457.01

OU-2

V. BILLS

City of Portsmouth

A.	Invoice # 2900949942	dated 7/20/2021	50%	\$2,750.00
	Peter Britz & Financial services - 7/2021			
B.	Invoice # 2900973411	dated 8/13/2021	50%	\$2,750.00
	Peter Britz & Financial services - 8/2021			

Haley Ward (CES) Payment Certifications dated: 8/24/2021
Invoices dated: 7/26/2021
Services rendered through: 7/25/2021

B.	Invoice # 20209241	65%	\$2,323.75
	General Technical Assistance		
C.	Invoice # 20209242	100%	\$91,599.39
	Bedrock Investigation Activities		
D.	Invoice # 20209243	100%	\$3,127.80
	Stormwater		
E.	Invoice # 20209244	65%	\$5,114.05
	2020 Spring Sampling		
F.	Invoice # 20209245	65%	\$2,622.66
	Fall 2020 Sampling		
G.	Invoice # 20209246	65%	\$62,614.17
	2021 Spring Sampling		

VI. OU - 2 RECORD ITEMS

- A. OU-2 Balance as of 8/20/2021: \$541,337.69
Includes deposit of \$91,126.53 on 8/19/2021 from DoJ
Invoice 12: \$91,078.62 + \$47.91 interest.

COMBINED OU-1 & OU-2

VII. COMBINED OU – 1 & OU – 2 ACTION ITEMS

- A. Report of Peter Britz of the City of Portsmouth dated 8/24/2021

VIII. COMBINED OU – 1 & OU – 2 RECORD ITEMS

- A. Approved Minutes of the Coakley Executive Committee 5/19/2021 meeting; approved on 6/28/2021; executed on 6/28/2021.
- B. Contract Amendment_Deep Bedrock Investigation, approved on 6/28/2021, executed 6/29/2021.
- C. Contract Amendment_Spring 2021 Groundwater Sampling, approved on 6/28/2021, executed on 6/29/2021.

IX. OTHER BUSINESS

X. SCHEDULE THE NEXT COAKLEY EXECUTIVE COMMITTEE MEETING

Memo

To: Coakley Executive Committee
From: Peter Britz, Coakley Coordinator
Date: August 24, 2021
Re: Activity report

Deep Bedrock Study

With the completion of the constant rate pump test all of the major field milestones of the deep bedrock study have been completed. Haley Ward is collecting all of the data from the pump test and most recent sampling round and will include that in their efforts to put together a final report. EPA and NHDES have provided some guidance and there will be more feedback from the agencies when an outline or table of contents for the report has been completed. The current stated goal is to have the report completed by the end of this year.

HB-494 Pilot Treatment Study

Work continues to design an effective system for treatment of water flowing into Berry's Brook. After discussion about the treatment with various vendors we have requested and received a proposal from XDD Environmental. The first phase of this work will be to research all appropriate technologies and propose an approach that can be implemented. Likely the work will begin with a bench test to confirm that the project will be effective. The contract is attached as *(p2027 Coakley Landfill Surface Water Remedial Options Evaluation-7-16-21_signed)* A vote is needed to ratify the signature of the Chair. Also we are in discussion with Eric Nicols at Substrata to provide oversight and feedback for the committee on the work being done by XDD. No vote is needed for this work at this time.

PFOSA Investigation

The replicate sampling and spiked replicate sampling as agreed upon by the agencies have been collected and sent to two labs to compare their findings. We are still awaiting the results of the review by the independent company who is looking at the replicate samples that were analyzed by two different labs to determine how the PFOSA results are best characterized.

2021 Spring Sampling Round

We are still awaiting the validation and delivery of the analytical results from the monitoring event this spring.

Federal Reimbursement

Payment of Invoice 12 was made on August 18, 2021 in the amount of \$91,126.53. The next invoice will cover the period from September 2020 through August 2021.

COAKLEY EXECUTIVE COMMITTEE
Teleconference and Meeting
AGENDA
Tuesday, September 28, 2021
10:00 AM
Law Library, Portsmouth City Hall

- I. Review the minutes of the August 24, 2021 Coakley Teleconference call.

OU-1

II. **BILLS**

City of Portsmouth

- A. Invoice # 2901024924 dated 9/20/2021 50% \$2,750.00
Peter Britz & Financial services - 9/2021

DC MacRitchie Payment Certification dated: 9/28/2021
Invoice dated: 8/23/2021
Services rendered through: 8/16/2021

- B. Invoice # 205670 50% \$1,480.00
Professional Services

Haley Ward (CES) Payment Certification dated: 9/28/2021
Invoices dated; 9/16/2021
Services rendered through: 8/29/2021

- C. Invoice # 20210035 35% \$954.63
General Technical Assistance

- D. Invoice # 20210038 35% \$1,585.50
2021 Spring Sampling

III. OU - 1 ACTION ITEMS

There were no action items.

IV. OU - 1 RECORD ITEMS

A. OU – 1 Balance as of 9/21/2021: \$171,826.36

OU-2

V. BILLS

City of Portsmouth

A. Invoice # 2901024924 dated 9/20/2021 50% \$2,750.00
Peter Britz & Financial services - 9/2021

DC MacRitchie Payment Certification dated: 9/28/2021
Invoice dated: 8/23/2021
Services rendered through 8/16/2021

B. Invoice # 205670 50% \$1,480.00
Professional Services

Haley Ward (CES) Payment Certifications dated: 9/28/2021
Invoices dated: 9/16/2021
Services rendered through: 8/29/2021

C. Invoice # 20210035 65% \$1,772.87
General Technical Assistance

D. Invoice # 20210036 100% \$24,539.65
Bedrock Investigation Activities

E. Invoice # 20210037 100% \$5,800.10
Stormwater - Surface Water Evaluation

F. Invoice # 20210038 65% \$2,944.50
2021 Spring Sampling

VI. OU - 2 RECORD ITEMS

- A. OU-2 Balance as of 9/21/2021: **\$368,439.98**

COMBINED OU-1 & OU-2

VII. COMBINED OU – 1 & OU – 2 ACTION ITEMS

- A. Report of Peter Britz of the City of Portsmouth dated 9/28/2021

VIII. COMBINED OU – 1 & OU – 2 RECORD ITEMS

- A. Approved Minutes of the Coakley Executive Committee 6/28/2021 meeting; approved on 8/24/2021; executed on 8/24/2021.
- B. XDD Environmental Contract p2027 for Surface Water Remedial Options Evaluation; dated 7/16/2021; Executed 8/15/2021 by Chair Spear.

IX. OTHER BUSINESS

X. SCHEDULE THE NEXT COAKLEY EXECUTIVE COMMITTEE MEETING

Memo

To: Coakley Executive Committee
From: Peter Britz, Coakley Coordinator
Date: September 28, 2021
Re: Activity report

Deep Bedrock Study

Haley Ward and EPA and NHDES met in the field to review locations for installation of piezometers which will support the direct push investigation looking at shallow overburden without the need for permanent monitoring well locations. Field work also consisted of looking for outcrops to review which will support the development of a geologic map for the deep bedrock study. In preparation for the final report we have reached out to Sanborn Head to ask for assistance in reviewing the report. We have a draft proposal from Sanborn Head for review and if appropriate authorization from the Committee. *(20210909 Coakley LF Proposal)*

HB-494 Pilot Treatment Study

XDD has begun its research on this topic and we expect to see some recommendations in the next month. When those recommendations come in there will be a review of the work by the company SubStrata to provide further input and guidance on moving forward with this work.

PFOSA Investigation

The replicate sampling and spiked replicate sampling as agreed upon by the agencies was collected and sent to two labs to compare their findings. Environmental Standards has reviewed the results from both labs and found no specific errors in QA/QC at either lab however one lab appears to have a more appropriate protocol for running the PFOSA samples. They are finalizing their findings and will provide them in a final report to be completed in the next few weeks.

2021 Spring Sampling Round

The validation is complete and Haley Ward is compiling the results for distribution.

2021 Fall Sampling Round

Haley Ward has provided a proposal for the fall sampling round but it is not finalized. The work is planned for the last two weeks of October. I have been provided a draft contract with the final contract coming next week. Last year's contract for the fall sampling was \$109,200. According to Haley Ward the pricing for this year's contract should be similar to last years with some increase to do increases in staff rates and staff changes on field personnel. Their initial draft was for \$112,000. I am hoping to authorize the chair to sign the contract if the technical committee reviews the contract and finds it appropriate and the pricing is within \$10,000 of last year's contract *(2021-08-31 CLG Fall 2021 Sampling)*.

2021 Projection

We have gone over the projection for 2021 at a couple of previous meetings. The final projection for 2021 is attached as *(2021-08-20 Projections)*.

COAKLEY EXECUTIVE COMMITTEE
Teleconference and Meeting
AGENDA
Wednesday, November 3, 2021
2:00 p.m.
Law Library, Portsmouth City Hall

For remote access, please use:

Conference Call Dial-in #: 603-766-5646

Conference ID: 393626

- I. Review the minutes of the 9/28/2021 Coakley Teleconference call.

OU-1

II. **BILLS**

City of Portsmouth

A.	Invoice # 2901059777	dated 10/20/2021	50%	\$2,750.00
	Peter Britz & Financial services - 10/2021			

<u>Haley Ward (CES)</u>	Payment Certification dated:	11/3/2021
	Invoices dated;	10/13/2021
	Services rendered through:	9/26/2021

B.	Invoice # 20210477		35%	\$754.68
	General Technical Assistance			

C.	Invoice # 20210480		35%	\$6,146.08
	2021 Spring Sampling			

III. **OU - 1 ACTION ITEMS**

There were no action items.

IV. **OU - 1 RECORD ITEMS**

A.	OU – 1 Balance as of 10/26/2021:	<u>\$165,057.65</u>
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OU-2

V. BILLS

City of Portsmouth

A.	Invoice #	2901059777	dated 10/20/2021	50%	\$2,750.00
		Peter Britz & Financial services - 10/2021			

Haley Ward (CES) Payment Certifications dated: 11/3/2021
Invoices dated: 10/13/2021
Services rendered through: 9/26/2021

B.	Invoice #	20210477		65%	\$1,401.57
		General Technical Assistance			
C.	Invoice #	20210478		100%	\$7,356.25
		Bedrock Investigation Activities			
D.	Invoice #	20210479		100%	\$12,613.44
		Stormwater - Surface Water Evaluation			
E.	Invoice #	20210480		65%	\$11,414.17
		2021 Spring Sampling			

VI. OU - 2 RECORD ITEMS

A.	OU-2 Balance as of 10/26/2021:	<u>\$329,155.88</u>
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COMBINED OU-1 & OU-2

VII. COMBINED OU – 1 & OU – 2 ACTION ITEMS

A.	Report of Peter Britz of the City of Portsmouth dated	11/3/2021
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VIII. COMBINED OU – 1 & OU – 2 RECORD ITEMS

- A. Minutes of the Coakley Executive Committee 8/24/2021 meeting; approved and executed on 9/28/2021.
- B. Sanborn Head contract for Deep Bedrock R1 Report Support dated 9/9/2021 and executed by Chair Spear 9/28/2021.
- C. 2021 Cash Flow Projections, approved 9/28/2021.
- D. Haley Ward contract for Fall 2021 Sampling and Reporting, dated 10/8/2021 and executed by Chair Spear 10/18/2021.

IX. OTHER BUSINESS

X. SCHEDULE THE NEXT COAKLEY EXECUTIVE COMMITTEE MEETING

Memo

To: Coakley Executive Committee
From: Peter Britz, Coakley Coordinator
Date: November 3, 2021
Re: Activity report

Deep Bedrock Study

Haley Ward is making progress on the report. They have been posting sections to a shared account and Sanborn Head and the Technical Committee have been able to provide feedback on the initial sections. The final draft will be provided to EPA and DES in December.

HB-494 Pilot Treatment Study

XDD has let me know that we should expect to see draft recommendations by the end of this week. This information will be reviewed and provided to SubStrata for review. Once the review is complete recommendations will be provided for next steps in the HB-494 compliance effort.

2021 Fall Sampling Round

The fall sampling round was completed at the end of last week. The data has been sent to Alpha lab for review and processing.

Surface Water Evaluations

In advance of the fall sampling round 7 new piezometers were installed to bring the total to 10 locations. These piezometers and three surface water locations were sampled as part of the fall 2021 sampling round and will be monitored monthly for water elevations with follow-up samples in the spring of 2022. This information will be put into a surface water report to provide information about the movement of groundwater to surface water around the site in the selected locations.

2022 Assessment

Using the projection approved in September an annual assessment will be provided for 2022. The assessment will be provided for review and adoption at the next meeting of the CLG.

COAKLEY EXECUTIVE COMMITTEE
Teleconference and Meeting AGENDA
Wednesday, December 15, 2021
2:00 p.m.
Law Library, Portsmouth City Hall

For remote access, please use:

Conference Call Dial-in #: 603-766-5646

Conference ID: 393626

I. Review the minutes of the 11/3/2021 Coakley Teleconference call.

OU-1

II. **BILLS** All payment certifications are dated: 12/15/2021

City of Portsmouth

A.	Invoice #	2901090988	dated 11/16/2021	\$2,750.00
		Peter Britz & Financial services - 11/2021		50%

<u>Haley Ward (CES)</u>	Invoices dated;	11/10/2021
	Services rendered through:	10/31/2021

B.	Invoice #	20211035	35%	\$482.13
		General Technical Assistance		

C.	Invoice #	20211038	35%	\$338.18
		Fall 2020 Sampling		

D.	Invoice #	20211039	35%	\$3,818.58
		2021 Spring Sampling		

E.	Invoice #	20211040	35%	\$15,053.57
		Fall 2021 Sampling		

Nordstrom Enterprises

F.	Mowing, 17 days, fuel, equipment transport	100%	\$12,827.00
	11/23/2021		

III. OU - 1 ACTION ITEMS

There were no action items.

IV. OU - 1 RECORD ITEMS

A. OU – 1 Balance as of 12/10/2021: \$155,411.15

OU-2

V. BILLS All payment certifications are dated: 12/15/2021

City of Portsmouth

A.	Invoice #	2901090988	dated 11/16/2021	50%
		Peter Britz & Financial services - 11/2021		\$2,750.00

Haley Ward (CES)

Invoices dated:	11/10/2021
Services rendered through:	10/31/2021

B.	Invoice #	20211035	65%	\$895.37
		General Technical Assistance		
C.	Invoice #	20211036	100%	\$22,928.25
		Bedrock Investigation Activities		
D.	Invoice #	20211037	100%	\$3,264.44
		Stormwater Sampling - Surface Water Evaluation		
E.	Invoice #	20211038	65%	\$628.07
		Fall 2020 Sampling		
F.	Invoice #	20211039	65%	\$7,091.63
		2021 Spring Sampling		
G.	Invoice #	20211040	65%	\$27,956.61
		Fall 2021 Sampling		

The Water Techs
(ARM)

Invoices dated: 11/1/2021
Services rendered through: 11/1/2021

H. Invoice#: 1101211 100% \$2,045.00
Sampling & lab fees

I. Invoice#: 1101212 100% \$3,320.00
Sampling & lab fees; Maintenance

Sanborn Head

Invoice dated: 12/2/2021
Services rendered through 11/27/2021

J. Invoice # 0055987 100% \$13,998.32
Deep Bedrock RI Report & Tech Support

Substrata

Invoice dated: 12/7/2021
Services rendered through 11/12/2021

K. Invoice #: 00623 100% \$390.00
Technical review & consultation re XDD proposal

XDD Envir

Invoice dated: 10/18/2021
Services rendered through 9/30/2021

L. Invoice #: 21027-100 100% \$15,656.25
Surface water PFAS remedial options evaluation

Invoice dated: 11/16/2021
Services rendered through 10/31/2021

M. Invoice #: 21027-101 100% \$3,121.25
Surface water PFAS remedial options evaluation

VI. OU - 2 ACTION ITEMS

There were no action items.

VII. OU - 2 RECORD ITEMS

A. OU-2 Balance as of 12/10/2021: **\$293,628.66**

COMBINED OU-1 & OU-2

VIII. COMBINED OU – 1 & OU – 2 ACTION ITEMS

- A. Report of Peter Britz of the City of Portsmouth dated 12/15/2021

IX. COMBINED OU – 1 & OU – 2 RECORD ITEMS

- A. Minutes of the Coakley Executive Committee 9/28/2021 meeting; approved

X. OTHER BUSINESS

XI. SCHEDULE THE NEXT COAKLEY EXECUTIVE COMMITTEE MEETING

XII. NON-PUBLIC SESSION (if necessary)

Memo

To: Coakley Executive Committee
From: Peter Britz, Coakley Coordinator
Date: December 15, 2021
Re: Activity report



Deep Bedrock Study

The report is nearing completion. There will be a draft that is scheduled to be completed before the end of the month and delivered to EPA and DES.

HB-494 Pilot Treatment Study

XDD has made some initial recommendations that are under review by the technical committee. After further discussion with XDD we will develop a final version for review. Once the final version is complete recommendations will be provided for next steps in the HB-494 compliance effort.

Surface Water Evaluations

Haley Ward continues to monitor the surface water levels from piezometers monthly. In addition, water quality samples were collected in conjunction with the recent fall sampling round and will be collected again in the spring of 2022. This information will be put into a surface water report to better characterize the interaction of groundwater and surface water around the site.

Spring Sampling Report

A draft of this has been completed. Haley Ward will be finalizing this in the next couple of weeks to get a draft to the regulators.

Carbon Filter Change Out

Both the golf course and the residential location on Breakfast Hill Road had a carbon filter change out on November 1st. While 368 Breakfast Hill road is changed out every twelve months the golf course is changed out occurs at 120k gallons usage. It is interesting to note that the Golf course frequency has continued to increase with shorter change out intervals.

<p align="center">COAKLEY EXECUTIVE COMMITTEE Teleconference and Meeting AGENDA Tuesday, January 18, 2022 10:00 a.m. Law Library, Portsmouth City Hall</p>

For remote access, please use:

Conference Call Dial-in #: 603-766-5646

Conference ID: 393626

I. Review the minutes of the 12/15/2021 Coakley Teleconference call.

OU-1

II. **BILLS** All payment certifications are dated: 1/18/2022

City of Portsmouth

A.	Invoice #	2901123265	dated 12/14/2021	\$2,750.00
		Peter Britz & Financial services - 12/2021		50%

<u>Haley Ward</u>	Invoices dated;	12/10/2021
	Services rendered through:	11/28/2021

B.	Invoice #	20211776	35%	\$300.12
		2021 Spring Sampling		

C.	Invoice #	20211777	35%	\$225.75
		Fall 2020 Sampling		

D.	Invoice #	20211778	35%	\$420.88
		General Technical Assistance		

E.	Invoice #	20211834	35%	\$15,062.45
		Fall 2021 Sampling		

Piscataqua Savings Bank

F.	Invoice dated:	12/22/2021	100%	\$2,500.00
	Services rendered through:	11/30/2022		

III. OU - 1 ACTION ITEMS

There were no action items.

IV. OU - 1 RECORD ITEMS

A. OU – 1 Balance as of 1/10/2022: \$120,142.92

OU-2

V. BILLS All payment certifications are dated: 1/18/2022

City of Portsmouth

A.	Invoice #	2901123265	dated 12/14/2021	50%
		Peter Britz & Financial services - 12/2021		\$2,750.00

Haley Ward

Invoices dated: 12/10/2021
Services rendered through: 11/28/2021

B.	Invoice #	20211775	100%	\$130.00
		Groundwater Management Permit Renewal		
C.	Invoice #	20211776	65%	\$557.38
		2021 Spring Sampling		
D.	Invoice #	20211777	65%	\$419.25
		Fall 2020 Sampling		
E.	Invoice #	20211778	65%	\$781.62
		General Technical Assistance		
F.	Invoice #	20211779	100%	\$12,551.47
		Stormwater		
G.	Invoice #	20211780	100%	\$37,416.75
		Bedrock Investigation Activities		
H.	Invoice #	20211834	65%	\$27,973.12
		Bedrock Investigation Activities		

Piscataqua Savings Bank

I.	Invoice dated: 12/22/2021	100%	\$2,500.00
	Services rendered through: 11/30/2022		

VI. OU - 2 ACTION ITEMS

There were no action items.

VII. OU - 2 RECORD ITEMS

A. OU-2 Balance as of 1/10/2022: **\$189,585.69**

COMBINED OU-1 & OU-2

VIII. COMBINED OU – 1 & OU – 2 ACTION ITEMS

A. Report of Peter Britz of the City of Portsmouth dated 1/18/2022

IX. COMBINED OU – 1 & OU – 2 RECORD ITEMS

A. Minutes of the Coakley Executive Committee 11/3/2021 meeting; approved on 12/15/2021 and executed on 12/20/2021.

X. OTHER BUSINESS

XI. SCHEDULE THE NEXT COAKLEY EXECUTIVE COMMITTEE MEETING

XII. NON-PUBLIC SESSION (if necessary)

Memo

To: Coakley Executive Committee
From: Peter Britz, Coakley Coordinator
Date: January 18, 2021
Re: Activity report

Deep Bedrock Study

The Deep Bedrock Study has been submitted to EPA and NHDES for their review. They have confirmed receipt and that they have begun their review. They have not let us know when they will provide comments.

HB-494 Pilot Treatment Study

XDD has been acquired by Loureiro which is their new name. After initial review some modifications to the report are being made to provide a more complete report. Upon receipt of a final version recommendations will be provided for next steps in the HB-494 compliance effort.

MW-25 Well Completion

A final well completion approach has been approved by EPA. Haley Ward is going to try to have the well completion take place during the winter when there are frozen ground conditions to provide easier access to this location.

Spring Sampling Report

A draft of this has been completed. Haley Ward will be finalizing this soon to get a draft to the regulators.

DOJ Invoice Sent Out

The DOJ Invoice number 13 was sent out on January 10th requesting reimbursement in the amount of \$149,724.14 for the %20.08 Federal portion of OU-2 response costs.