DEPARTMENT of AGRICULTURE and NATURAL RESOURCES
JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

June 16, 2025

MEMO TO: **Terry Florentz, P.E., Administrator, Inspection, Compliance, & Remediation Program**

FROM: **Trish Kindt, Scientist Manager I** Terry Florentz (Jun 16, 2025 08:57 CDT) Trish Kindt (Jun 16, 2025 10:42 CDT)

SUBJECT: **Proposal/Work Plan for investigation of a unknown blue substance that was spilled on the street of Deadwood (Caribbean Blue – 2025.073).**

I am requesting use of the Regulated Substance Response Fund to pay for costs associated with investigation and attempted identification of the substance and its source.

On Friday June 6, 2025, just before 4:30, Inspection, Compliance, and Remediation Program (ICR) staff were made aware of an issue in Deadwood. Reportedly, an unknown blue substance had been disposed in a dumpster by an unknown individual. After the garbage was picked up, the blue substance leaked out of the truck and was spread across numerous streets in Deadwood. In response, the city performed cleanup of pooled liquid but the streets remained stained. Following a rainfall event, the blue substance was partially washed off city streets and into Whitewood Creek. The creek was visibly blue as a result.

Pierre office DANR staff investigated via telephone but because it was late on a Friday, Rapid City area DANR staff were unavailable. Therefore, American Engineering Testing, Inc. in Rapid City was contacted. Their staff were available to mobilize immediately and perform investigation work.

The attached work plan and cost estimate includes time, services, and materials necessary to provide assessment and soil sampling during excavation activities. It is possible additional costs may be incurred, but at this point, the investigation is nearing its end.

Anticipated costs for this proposed assessment work will range from $1,782.25 to $2,292.25. As AET's work plan and proposed level of effort are consistent with our expectations for this project, we request approval of AET's proposal.

June 11, 2025

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South Dakota Department of Agriculture and Natural Resources
Inspection, Compliance, and Remediation Program
523 East Capitol Avenue
Pierre, South Dakota 57501-3181

Attn: Ms. Trish Kindt
Email: Trish.Kindt@state.sd.us

Re: Work Plan and Cost Estimate for
Deadwood Surface Water Sampling
Deadwood, South Dakota
AET Project No. P-0044500
SDDANR Case No. TBD

Dear Ms. Kindt:

American Engineering Testing Inc. (AET) is pleased to provide the following proposal for surface water sampling services at Deadwood, South Dakota (SD). This proposal describes the general scope, schedule, fees, and other information regarding our services.

PROJECT INFORMATION

Information provided by SD Department of Agriculture and Natural Resources (DANR) indicates that on Friday, June 6, 2025, an unknown liquid substance with a blue/green tinted dye was picked up by a local garbage truck which traveled around the streets and business parking lots of Deadwood. The liquid substance was released to the pavement surfaces along the garbage truck route from a leaking hopper bin on the garbage truck. The volume of the leaking substance which was released to the pavement surfaces during the garbage truck route is unknown. Following the release of the unknown liquid substance, multiple rain events occurred in Deadwood on June 6 which allowed storm water to pick up and transport the unknown substance along paved parking lots and streets to city storm outfall(s) releasing diluted amounts of the unknown substance to Whitewood Creek. Reports and photographs taken by City of Deadwood personnel indicate that after the initial rain event on June 6, downgradient locations of Whitewood Creek were visibly impacted by the blue/green substance.

This proposal for surface water sampling was prepared in response to a request from the DANR to perform an emergency response sampling event on the evening of June

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6, 2025, and subsequent analyses of the surface water sample(s) collected. The scope of services we propose to perform on this portion of the project is detailed in Attachment A of this proposal. Attachment B presents a short discussion of the methodologies that will be used to perform the services provided and Attachment C presents a cost estimate to complete the referenced scope of work.

FEES

Based on the scope of work defined in this proposal, we anticipate incurring costs between $1,782.25 - $2,292.25 to complete the surface water sampling activities. The project cost estimate is attached to this proposal as Attachment C.

PERFORMANCE SCHEDULE

The analytical results are generally received from the analytical laboratory within 10 working days of the sampling event. The remedial surface water letter report will be issued within 15 working days of receipt of the analytical results.

TERMS AND CONDITIONS

This work will be performed under the terms, conditions, and fee schedule established under AET's 2019 Regulated Substance Response Contract with DANR and First Amendment executed on July 12, 2022.

ACCEPTANCE

We will begin work on this project upon receiving authorization from DANR. Authorization can be initiated by signing the attached authorization page and returning it to our office.

Thank you for the opportunity of submitting this proposal. We look forward to working with you towards the completion of this project. If you have any questions or need further assistance, please call us at (605) 388-0029.

Sincerely,
American Engineering Testing, Inc.

Douglas L. Schueller, CPRR
Sr. Environmental Project Manager
Email: dschueller@teamaet.com

Bradley P. Bishop, CPRR
Sr. Environmental Project Manager
Email: bbishop@teamaet.com

Attachments: Proposal Authorization Page
Attachment A. Scope of Work
Attachment B. Methodologies
Attachment C. Cost Estimate

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WORK PLAN and COST ESTIMATE for DEADWOOD SURFACE WATER SAMPLING DEADWOOD, SOUTH DAKOTA

DANR CASE No. TBD
AET PROJECT No. P-0044500

June 11, 2025

AUTHORIZATION

FOR THE CLIENT:

Client: SD Department of Agriculture and Natural Resources

Authorized Signature: Terry Florentz (Jun 16, 2025 08:57 CDT)

Typed Name: Terry Florentz, P.E.

Title: Administrator

Date: 06/16/2025

ACCEPTANCE

FOR AMERICAN ENGINEERING TESTING, INC:

Authorized Signature:

Typed Name: Bradley P. Bishop

Title: Senior Environmental Project Manager

Date: June 11, 2025

ATTACHMENT A

SCOPE OF WORK

Surface Water Sampling Event

The scope of work we propose to perform for this portion of the project consists of:

1. mobilize a licensed petroleum release remediator to the project site to meet with City of Deadwood personnel to observe liquid substance release locations, pavement puddling where surface water impacts are evident, and possible Whitewood Creek sampling locations;

2. take photographs of locations where pavement puddling is observed at the Deadwood Hospital and intermittent locations of Whitewood Creek between the Deadwood Hospital and Deadwood Rodeo Grounds;

3. collect a pavement surface water sample at the Deadwood Hospital and a surface water sample within Whitewood Creek at a downgradient location of the observed release areas;

4. analyze the pavement surface water sample collected at the Deadwood Hospital for the presence and concentration of copper, sulfate, nitrate, and nitrite; and

5. prepare a factual letter report including site maps, photos documenting the sampling event, our field observations, and analytical surface water sample test results.

ATTACHMENT B

METHODOLOGIES

Surface Water Sampling
The surface water samples are collected at the surface water sampling locations by dipping and filling the surface water directly into the laboratory provided sample containers.

Chemical Analysis – Surface Water
The surface water samples are analyzed for the presence and concentration of copper, sulfate, nitrate, and nitrite, according to the appropriate DANR approved methods.

Chain of Custody
Upon collection of a sample to be analyzed in the laboratory, a chain of custody log is initiated. The chain of custody log includes the following information: project, work order number, shipped by, shipped to, project manager, sampling point, location, field identification number, date taken, sample type, number of containers, analysis required, and sampler's signature.

The chain of custody log is delivered with the samples to the laboratory. Upon arrival at the laboratory, the samples are checked in and custody of the samples signed over to the appropriate laboratory personnel. A copy of the chain of custody log is submitted to the project manager.

Reporting

A report is prepared that 1) presents and summarizes the results of the work conducted, 2) includes site location and study area maps, and 3) gives our opinion regarding the presence of chemicals of concern.

Quality Assurance/Quality Control (QA/QC)
QA/QC manuals are available at AET offices for your review.

Staffing
We anticipate that Brad Bishop will be the Project Manager for this project. The Project Manager is assisted by the balance of the Rapid City and Pierre office staff as needed.

ATTACHMENT C

COST ESTIMATE, TERMS OF PAYMENT AND CLOSING REMARKS

The scope of work listed in this proposal will be performed and compensated for on a time and materials basis in accordance with the First Amendment to the 2019 Consultant Contract Fee Schedule between AET and DANR. A copy of the project cost estimate is attached.

PROJECT TIME AND MATERIALS ESTIMATED COSTS
DEADWOOD SURFACE WATER SAMPLING
DEADWOOD, SOUTH DAKOTA
AET PROPOSAL NO. P-0044500

Equipment Services and Expenses [1]												
Sampling Supplies Fee [2]	1	-	1	sample	@	$	35.00	=	$	35.00	-	$ 35.00
Pickup Mileage	81	-	81	mile	@	$	1.00	=	$	81.00	-	$ 81.00
Pickup Truck Rental	1	-	1	day	@	$	80.00	=	$	80.00	-	$ 80.00
Site Visit and Regulatory Communication [1]												
Sr. Project Manager												
Project Management	2	-	3	hour	@	$	135.00	=	$	270.00	-	$ 405.00
Environmental Scientist												
Project Preparation, Loading/Unloading, Sample Prep	2	-	3	hour	@	$	115.00	=	$	230.00	-	$ 345.00
Project Travel Time	1.5	-	1.5	hour	@	$	115.00	=	$	172.50	-	$ 172.50
On-site Time	1.5	-	1.5	hour	@	$	115.00	=	$	172.50	-	$ 172.50
Administrative Assistant	1	-	2	hour	@	$	60.00	=	$	60.00	-	$ 120.00
Report Preparation												
Sr. Project Manager	1	-	1	hour	@	$	135.00	=	$	135.00	-	$ 135.00
Staff Professional	2	-	3	hour	@	$	115.00	=	$	230.00	-	$ 345.00
Draftsperson	2	-	3	hour	@	$	85.00	=	$	170.00	-	$ 255.00
Clerical	1	-	1	hour	@	$	60.00	=	$	60.00	-	$ 60.00
Subcontractor Services												
Laboratory Services												
Total Copper (Water)	1	-	1	sample	@	$	26.25	=	$	26.25	-	$ 26.25
Sulfate (Water)	1	-	1	sample	@	$	20.00	=	$	20.00	-	$ 20.00
Nitrate (Water)	1	-	1	sample	@	$	20.00	=	$	20.00	-	$ 20.00
Nitrate (Water)	1	-	1	sample	@	$	20.00	=	$	20.00	-	$ 20.00
TOTAL PROJECT ESTIMATED COSTS										**$ 1,782.25**	-	**$ 2,292.25**

[1] Reflects 1 round trip to the site for an initial site reconnaissance with city of Deadwood representative and surface water sampling event.

[2] Sampling Supplies Fee may include the following equipment: bottles, chain of custody, sampling forms, gloves, cooler, ice pack, methanol, decon water, decon wipes, and other misc. sampling supplies.

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