

Department of Administration **Purchasing Division** 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

### State of West Virginia **Purchase Order**

Order Date: 09-18-2024

CORRECT ORDER NUMBER MUST APPE ON ALL PACKAGES, INVOICES, AND SHIPPING PAPERS. QUESTIONS CONCERNING THIS ORDER SHOULD BE DIRECTED TO THE DEPARTMENT CONTACT.

Order Number:	CPO 0313 9171 DEP2300000032 5	Procurement Folder:	1047664	
Document Name:	EOI - 2022 AML Contract 9 Projects - North	Reason for Modification:	1047004	
Document Description:	EOI - 2022 AML Contract 9 Projects - North	Change Order #2 to Increase	Contract	
Procurement Type:	Central Purchase Order			
Buyer Name:	Joseph E Hager III			
Telephone:	(304) 558-2306			
Email:	joseph.e.hageriii@wv.gov			
Shipping Method:	Best Way	Effective Start Date:	2023-07-20	
Free on Board:	FOB Dest, Freight Prepaid	Effective End Date:	2023-07-20	

			oight i tope	110		Effective End Date:	2026-07-18
Ш		VENDOR				DEPARTMENT CONTACT	r
TET	<b>dor Customer Code:</b> RA TECH INC 3 KANAWHA BLVD E S	00000023267 TE 110	71		Requestor Name: Requestor Phone: Requestor Email:	Larry T Workman (304) 414-1242 larry.t.workman@wv.gov	
US	RLESTON	304-414-0054	WV Extension	25311 on: 103			
Disc	ount Details:			105		0005	
	Discount Allowed	Discount Per	entage	Discount Days	-   "	2025	
#1	No	0.0000		0			
#2	Not Entered				-  F	ILE LOCATION	
#3	Not Entered						
#4	Not Entered				-		

INV	DICE TO		SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF AML&R		ENVIRONMENTAL PROTECTION OFFICE OF AML&R	
601 57TH ST SE		601 57TH ST SE	
CHARLESTON	WV 25304	CHARLESTON	WV 25304
us		us	

CR 10-2-24

**Total Order Amount:** \$8,112,533.7

Purchasing Division's File Copy

CHASING DIVISION AUTHORIZATION

DATE: ELECTRONIC S GNATURE ON ELLE ENCUMBRANCE CERTIFICATION

**ELECTRONIC SIGNATURE ON FILE** 

ATTORNEY GENERAL APPROVAL AS TO FORM

Date Printed: Oct 1, 2024

Order Number: CPO 0313 9171 DEP2300000032 5

Page: 1

FORM ID: WV-PRC-CPO-002 2020/05

### **Extended Description:**

Change Order

Change Order #2 issued to increase the contract according to all items, conditions and specifications contained in the contract including all authorized change \$7,862,806.38

Change Order #2 Increase:

\$249,727.40

New Contract Total:

\$8,112,533.78

Effective Date: 8/21/2024 - 7/18/2026

No other Changes

All provisions of the original contract and the subsequent change orders not modified herein shall remain in full force and effect.

ine	Commodity Code	0			
	81100000	Quantity	Unit	Unit Price	Total Price
Service From	Service To	0.00000		0.000000	3333969.45
		Manufacturer		Model No	0000009.40

**Commodity Line Description:** 

Professional Svcs - Three Fork Creek Watershed Restoration

### **Extended Description:**

Professional Svcs - Three Fork Creek Watershed Restoration

Line	Commodity Code	Quantity	11. 14		
	81100000	0.00000	Unit	Unit Price	Total Price
Service From	Service To	Manufacturer		0.000000	3581469.45
		manufacturer		Model No	

**Commodity Line Description:** 

Professional Svcs - Abram Creek AMD Treatment Phase II

### **Extended Description:**

Professional Svcs - Abram Creek AMD Treatment Phase II

Line	Commodity Code	Quantity	11.6		
3	81100000	0.00000	Unit	Unit Price	Total Price
Service From	Service To	Manufacturer		0.000000	1197094.88
		manulacturer		Model No	1101004,00

**Commodity Line Description:** 

Professional Svcs - Richard (Shaver) Drainage

### Extended Description:

Professional Svcs - Richard (Shaver) Drainage

ite Printed: Oct 1, 2024 Order Number: CPO 0313 9171 DEP2300000032 5

Page: 2

FORM ID: WV-PRC-CPO-002 2020/05



## west virginia department of environmental protection

Division of Land Restoration Office of Abandoned Mines Lands and Reclamation 1000 Technology Drive, Suite 3220 Fairmont, WV 26554

Phone: 304-842-1900 Fax: 304-842-1928

Harold D. Ward, Cabinet Secretary dep.wv.gov

September 11, 2024

TETRA TECH INC

Attn: Michael S. Kearns, M.S., P.E., P.S. 1538 Kanawha Blvd E STE 110

Charleston, WV 25311

Re: Change Order # 2

Project Name: 2022 AML Contract 9 Projects - North

Permit Number: N/A

Contract Number: CPO DEP23\*32

Dear Mr. Kearns:

The WVDEP Office of Abandoned Mine Lands and Reclamation is issuing a change order to increase the original contract according to all terms, conditions, prices, and specifications contained in the original contract including all authorized change orders as shown on Attachment A.

After the award of the original contract, several costs became known that could not have been reasonably anticipated but yet are required to complete the original scope. These include additional Realty / Survey work affecting Commodity Line 2 Abram Creek AMD Treatment Phase II, additional costs associated with MM-109 permits affecting Commodity Line 2 Abram Creek AMD Treatment Phase II, and also additional drilling work affecting Commodity Line 3 Richard (Shaver) Drainage. Backup and further explanation of these costs can be found on the subsequent pages of backup.

The effective date of the change order is August 21, 2024 through July 18, 2026.

Commodity Line 1: NO CHANGE. Commodity Line 2: Increased, \$80,608.90. The expanded project area and additional professional services and associated project works necessary to be provided for each impacted project Task and Sub-Task to perform the additional work stated above have been provided and discretized in the Consultant's attached backup. Additional quantities are necessary as well as additional Sub-Tasks not previously included in the original contract – these are all clearly shown in the following backup. The total price for Commodity Line 2 including this Change Order #2 will be \$3,581,469.45. Commodity Line 3: Increased, \$169,118.50. The expanded project area and additional professional services and associated project works necessary to be provided for each impacted project Task and Sub-Task to perform the additional work stated above have been provided and discretized in the Consultant's attached backup. Additional quantities are necessary as well as additional Sub-Tasks not previously included in the original contract – these are all clearly shown in the following backup. The total price for Commodity Line 3 including this Change Order #2 will be \$1,197,094.88. The total contract sum including this Change Order #2 will be \$8,112,533.78.

Re: Change Order # 2

Purchase Order No.: CPO DEP23\*32

## Change Order Approved by WVDEP:

Name	Title			
Troy H. Schell, P.E.	Northern Design	Signature	е	Date
Eric Simpson, P.E.	Administrator	Troy H. Schell	Digeally signed by: Troy H. Schel DN: CN = Troy H. Schell email > Date: 2024,09,11 18:34:19 -04'0	
	AMLR Northern Regional Engineer	Eric Simpson	Digitally sign	alle Pro
Travis Parsons	Deputy Director	3 5 111 p3011	Date: 2024.09	ed by Eric Simpson 12 15:15:58 -04'00
signature of Deputy Direc  0% when compared to or	AMLR			Juga Marian

(signature of Deputy Director or Director is ONLY required when change order(s) total increase exceeds

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$\triangle$	Vour signature hat	r approval process requires
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- your signature below
- a current copy of your contractor's license
- X a current copy of your insurance certificate
  - WVDEP must be listed as additional insured and the contract number must be a Bond Rider in the amount of Click or tap here to enter text.

I am in agreement with the changes as outlined in this letter and Attachment A.

Name	Title		
Eric Cavazza	VP, Legacy Coal Restoration	Signature	Date
		Cin C. Coope	09/12/2024

Please email the signed documents to depdirprocurement@wv.gov within 7 days of receipt of

If a Bond Rider is required, please mail the original to:

WV Dept. of Environmental Protection Office of Abandon Mine Lands Attn: Melanie Simpson 601 57th Street SE Charleston, WV 25304

Melanie Simpson CC:

PURCHASE ORDER NUMBER: CPO DEP23\*32

CHANGE ORDER NUMBER:

PROJECT NAME: 2022 AML Contract 9 Projects - North VENDOR/ CONTRACTOR: TETRA TECH INC

## The following changes will be implemented as part of this contract change order:

CL# 2	Professional Svcs - Abram Creek	UNIT PRICE	UNIT OF MEASURE	QUANTITY NOW READS	QUANTITY TO READ	CONTRACT PRICE
-			0		INCREASE/DECREAS	
3	Professional Svcs - Richard (Shaver) Drainage	\$169,118.50			1	\$80,608.90
	(Gridver) Drainage	110.00		0	1	\$169,118.50
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August 21, 2024 \$7,862,806.38
\$7,862,806.38 \$249,727.40 \$8,112,533.78 0 July 18, 2026

## Attachment 1 West Virginia Department of Environmental Protection 2022 AML Contract 9 Projects – North

## WVDEP File No. CEOI 0313 DEP 2300000032

## Change Order 2 (9-04-24)

## Change Order 2A - Abram Creek Doser Projects.

Change Order 2A is required due to the additional realty & surveying services costs associated with additional research required of properties which is more than could have been reasonably anticipated. These additional costs include primarily realty personnel costs, surveyor's research costs and project management. More specifically, examples of these items would include, but not limited to:

- Dealing with corporations and going back and forth with their legal representatives, dealing
  with lease holder interest owners, and negotiations with corporate terms and conditions of
  the rights-of entries.
- Dealing with private residential landowners, (on landowner's specific required dates) back and forth with their legal representatives, heirship disputes, negotiations with any renters and negotiations with potential legal representatives.
- Additional time and transportation costs to and from the specific landowners' locations during the negotiations as well as time and transportation to and from court houses performing deed research and meetings with landowners.
- Dealing with undocumented landowners, inaccurate/faulty deed descriptions, or identifying, locating and securing rights of entry of fractional interests.
- Surveyor's costs for retrieval, reviewing, plotting and analyzing deeds for the additional properties required for the change order areas and inaccurate/faulty deed descriptions.
- Additional discussions and communications time among the design team concerning the additional issues related to the change order items.

In addition, coordination efforts will be required to determine the availability, practicality, and cost effectiveness of providing public water to the Abram, Little Creek and Morgan 25 doser sites which will exceed the anticipated scope of these services originally anticipated. The additional hours and costs for this item have been listed and identified under the Task III Design, Item A, "Site Reconnaissance, Investigations and Proposal Preparation" and Task III, Design, Item J "Project Manager/Task Oversight".

More specifically, examples of the required additional Project Management and Engineering items would include, but not limited to:

• Due to the limited infrastructure available in the communities of the project sites, water line extensions for multiple homes become complex projects for the Public Service Districts (PSDs) involved (both in supplying the water and the distribution). Because of this, additional in-house and client communications are required. This includes numerous scheduled meetings (i.e. Team Meetings) among WVDEP, PSDs, and Tetra Tech. Additional in-house and WVDEP communications concerning the potential routes for the

- potential water line connections including potentially numerous scheduled meetings (ie; Team Meetings) among WVDEP, Public Service District (PSD) and Tetra Tech.
- Additional hours to optimize layout based on the number of residential customers served instead of shortest route (which requirement was not established at the proposal stage and did involve rework at WVDEP Management request).
- Additional hours required for back-and-forth negotiations/discussion with PSD/WVDEP due to lack of PSD manpower and the resulting difficulty in establishing and maintaining PSD contact. This also includes regular follow-up to keep the PSD moving and to head off issues.

The Abram Creek Doser Change Order 2A includes 408 hours at a total cost of \$76,468.90 as detailed in the attached spreadsheet.

## Change Order 2B- Richard (Shaver) Drainage Project

Four (4) borings were previously drilled into the mine to identify the depth to the mine, presence and conditions of mine voids, and the presence of water within the Rock Forge Mine, however the mine pool was only encountered in one of the bore holes.

Per the resulting exploratory drilling report, as prepared by Tetra Tech, additional borings were recommended to be drilled and monitored in order to establish continuity of the mine pool.

Change Order 2B is for the installation of up to six (6) additional exploratory drill holes Per the drilling report review meeting it was discussed that up to four (4) strata holes be drilled below Ralph Road in the vicinity of the existing seepage areas in order to identify strata irregularities, cracks or fissures which could be allowing the seepage to drain to a lower level in the vicinity of the existing seepage. In addition, two (2) additional monitoring bore holes are proposed in an attempt to establish the mine pool water elevation(s) and continuity.

Tetra Tech recently attained a more detailed Rock Forge mine map (1911) which provides significantly more detailed mine information (coal bed elevations, coal contours, orientation information) than the one originally used. By utilizing the updated mine map, overlain by the recently developed contour map (attached), a more accurate selection for the location of the proposed two (2) monitoring bore holes has been made, increasing the possibility of success of drilling within the mine void. In addition, the coal bed elevations listed within the mine map will success of determining the mine pool water elevation.

The Richard Drainage Project Change Order 2B includes, realty services, geotechnical services and project management services including 468 hours at a total cost of \$169,118.50 as detailed in the attached spreadsheet.

## Change Order 2C- WVDOH Route Research Request Fee (Abram Project only)

As of June 12, 2023, WVDOH has been requiring the submittal of a completed Route Research Request Form and payment of fees when information is requested on any WV route (RW width, road history, abandonments, redesignations, etc.). The reference fees and costs (See attached WVDOH memorandum) associated with the submittal of the Route Research Request Form were

not included within Tetra Tech's survey sub-consultant's or Tetra Tech's Contract 9 proposal fees. This is because Tetra Tech submitted the proposal to the WVDEP on March 10, 2023 - well before this change of WVDOH policy was implemented or made known. This request includes an estimated 52 hours of research by WVDOH for a total cost of \$4,140.

## TOTAL CONTRACT 9 CHANGE ORDER 2 REQUEST:

Abram Creek AMD Treatment Phase II Project
<ul> <li>Richard (Shaver) Drainage Project</li> <li>WVDOH Route Research Request Fee (Abram Project)</li> <li>(Included in Abram Creek Spreadsheet; Lines 20 &amp; 21)</li> </ul>
<b>TOTAL CHANGE ORDER</b> \$249,727.40

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		2	Somor reclinical Director		HR		0.00		
			Engineering Technical Director		HR		0.00	\$318.55	
	4	_	Project Manager / Senior Engineer		HR		0.00	\$286.35	
	5		Senior Engineer		HR		0.00	\$247.25	
	6		Geologist/Scientist III		HR		0.00	\$220.80	
	7		Engineer II		HR		0.00	\$150.65	
	8		Scientist IV		HR		0.00	\$131.10	
		-	CADD Designer		HR		0.00	\$125.35	
	9		Vehicle				0.00	\$142.60	
	10		Mileage		Day		0.00	\$150.00	
	11		Per Diem		Mile		0.00	\$0.655	Ş
					Day		0.00	\$150.00	Ç
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	5				HR		0.00	\$247.25	\$0
	6		Geologist/Scientist III		HR		0.00	\$220.80	\$0
	7		Engineer II		HR		0.00	\$150.65	\$0
	8	+	Scientist IV		HR		0.00	\$131.10	\$0
	9	-	CADD Designer		HR		0.00	\$125.35	\$0
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	2		Engineering Technical Director		HR		0.00	\$318.55	
	3		Project Manager / Senior Engineer		HR		0.00	\$286.35	\$0.0
	4		Senior Engineer		HR		0.00	\$247.25	\$0.0
	5		Geologist/Scientist III		HR		0.00		\$0.0
	6		Engineer II		HR		0.00	\$220.80	\$0.0
	7		Scientist IV		HR		0.00	\$150.65	\$0.0
	8		CADD Designer		HR			\$131.10	\$0.0
	9		Vehicle		HR		0.00	\$125.35	\$0.00
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			Task I Sub-Total				0.00	\$247.25	\$0.00
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			Exploratory Rights of Entry (EROE)						
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	8		Scientist		HR			0	0.00	\$131.1		\$0.00
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-		8		Utility Coordinator		HR		40		.00	\$87.40	
		9	-	R/W and Survey Technician		HR			0.0		\$89.70	\$
		10	-	Survey Crew Chief		HR			0.0		\$89.70	
		12		Crew Member		HR			0.0		\$87.40	
		13	-	Abram Rock Robotic (UAV Registratio	)n	HR			0.0		\$85.10	
		14	-	Autolian Aerotas (Arial Photo Stitohing	<i>J</i> II	Each			0.0		\$59.80	
		15	-	Aolam 13 Global LIDAR Processing		Each			0.00		\$178.54	
		16		Mileage		Each			0.00		\$243.51 \$5,239.69	
		17		Survey Crew Per Diem		Mile			0.00		\$0.655	
		18		Research - Costs - Deeds		Day			0.00		\$172.50	
		19		Research - Costs - Assessments		Each			0.00		\$4.60	
		20	11	Research Costs - Recorded plans		Each			0.00		\$1.15	\$
		21		WVDOH Route Realty Fac		Each			0.00		\$9.20	\$
				WVDOH Route Realty Research		Each	_	0	20.00		\$115.00	\$1
С						HR		0	32.00		\$57.50	\$2,300
		1		GEOTECHNICAL INVESTIGATION								\$1,840
		2		Toject Manager / Senior Engineer		HR						
		3		Geotechnical Engineer/Geologist		HR			0.00	S	247.25	
		4		Mobilization / Demobilization per site oil Augering-Cont SPT		Each			0.00	\$	150.65	\$0.
_		5	R	ock Core Set Up		LF			0.00	\$7	,705.00	\$0.
		6	R	ock Coring		Each		_	0.00	\$	43.70	\$0.
	-	7		eavy Equipment		LF			0.00	\$2	58.75	\$0.0
		8	Di	ill Crew Per Diem		HR			0.00	\$:	51.75	\$0.0
_	-	9		clamation per site		Day			0.00	\$	0.00	\$0.0
		10	Во	ring Logs/Geology		Each			0.00	\$5	75.00	\$0.0 \$0.0
_		11	Ge	otechnical Investigation Report per site		HR			0.00		43.33	\$0.0
		12	1 01	noic	E	each			0.00		0.65	\$0.00
		4		eage	1	Day			0.00		00.00	\$0.00
	+ -	4	Per	Diem		file			0.00	\$15		\$0.00
	1				D	ay			0.00	\$0.6		\$0.00
		_			_					\$150	0.00	\$0.00
		_	_							_		
					-						_	
						_						
)			437.	More							-	
	1		Sania	YSIS AND DESIGN								
	2		Fraince	Technical Director	HR							
	3		Project	ering Technical Director	HR			0.0	0	\$318.5	5	
_	4		Senior	Manager / Senior Engineer Engineer	HR			0.0	0	\$286.3.		\$0.00
	5		Geolog	st/Scientist III	HR		_	0.00		\$247.2		\$0.00
_	6		Enginee	r II	HR			0.00		\$220.80		\$0.00
	7		Scientis		HR		-	0.00		\$150.65		\$0.00
-	8			Designer	HR			0.00		\$131.10		\$0.00
-	9		Vehicle	Buci	HR			0.00		\$125.35		\$0.00
+	10		Mileage		Day			0.00		\$142.60		\$0.00 \$0.00
-	11		Per Diem		Mile		-	0.00		\$150.00		\$0.00
-					Day		-	0.00		\$0.655		\$0.00
-			PREPAR	ATION OF PLANCE OR THE			-	0.00		\$150.00		\$0.00
	1		Senior Te	ATION OF PLANS, SPECIFICATION chnical Director	S AND ENGI	NEERS ESTIN	IATE					00.00
					HR							

		Abram Creek Tota	ıl					
		CHANGE ORDER	R 2 COST PROPOSA	L SCHE	DIU F FOR COV	Treves to des		
	TASK	DECOR		- Carry	ORIGINAL			
	2	DESCRIPTION	N	UNIT	CONTRACT QUANTITY	ORDI	ER UNIT BID	TOTAL CHANGE O
	3	Engineering Technical Director		HR	QUANTITY		111	AMOUNT
	4	Project Manager / Senior Engineer		HR		0.00	\$2.00,53	
	5	Senior Engineer		HR		0.00	\$247.25	
	6	Geologist/Scientist III		HR		0.00	\$220.80	
	7	Engineer II		HR		0.00	\$150.65	
	8	Scientist IV		HR		0.00	\$131.10	
	9	CADD Designer		HR		0.00	\$125.35	
	10	Vehicle		Day		0.00	\$142.60	
	11	Mileage		1ile		0.00	\$150.00	
	11	Per Diem		Day		0.00	\$0.655	
				-uy		0.00	\$150.00	
F-a								÷
		PERMITTING WVDEP Const.	ruction Stormwater					
	2	Senior Technical Director		D T				
	3	Engineering Technical Director	Н			0.00	\$318.55	4.
	4	Project Manager / Senior Engineer	H			0.00	\$286.35	\$(
	5	Senior Engineer	H			0.00	\$247.25	\$(
	6	Geologist/Scientist III	HI HI			0.00	\$220.80	\$0
	7	Engineer II	H			0.00	\$150.65	\$0
	8	Scientist IV				0.00	\$131.10	\$0
	8	CADD Designer	HR			0.00	\$125.35	\$0
	10	Vehicle				0.00	\$142.60	\$0
		Mileage	Day			0.00	\$150.00	\$0.
	11	Per Diem	Mile			0.00	\$0.655	\$0.
F-b			Day	-		0.00	\$150.00	\$0.
0	1	PERMITTING USACE						\$0.0
	2	Senior Technical Director	77	-				
	3	Engineering Technical Director	HR	-		0.00	\$318.55	ćo.
	4	Project Manager / Senior Engineer	HR HR	-		0.00	\$286.35	\$0.0
	5	Senior Engineer		-		0.00	\$247.25	\$0.0
	6	Geologist/Scientist III	HR	-		0.00	\$220.80	\$0.0
	7	Engineer II	HR	-		0.00	\$150.65	\$0.0
		Scientist IV	HR			0.00	\$131.10	\$0.0
	8	CADD Designer	HR	-		0.00	\$125.35	\$0.00
	9	Vehicle	HR	-		0.00	\$142.60	\$0.00
	10	Mileage	Day	-		0.00	\$150.00	\$0.00
	11	Per Diem	Mile	-		0.00	\$0.655	\$0.00
`-c			Day			0.00	\$150.00	\$0.00
-		PERMITTING WVDOH						\$0.00
	1	Senior Technical Director	TVI					
	2	Engineering Technical Director	HR			0.00	\$318.55	4.
-	3	Project Manager / Senior Engineer	HR			0.00	\$286.35	\$0.00
-	4	Senior Engineer	HR			0.00	\$247.25	\$0.00
-	5	Geologist/Scientist III	HR			0.00	\$220.80	\$0.00
-	6	Engineer II	HR			0.00	\$150.65	\$0.00
-	7	Scientist IV	HR			.00	\$131.10	\$0.00
+	8	CADD Designer	HR		0	.00	\$125.35	\$0.00
	9	Vehicle	HR		0	.00	\$142.60	\$0.00
-	10	Mileage	Day				\$150.00	\$0.00
-	11	Per Diem	Mile				\$0.655	\$0.00
-			Day		0.	00	\$150.00	\$0.00
-		PERMITTING Local Permits					\$150.00	\$0.00
-	1	Senior Technical Director						
_	2	Engineering Technical Director	HR		0.0	00	3318.55	
1	3	Project Manager / Senior Engineer	HR		0.0		286.35	\$0.00
		1 Toject Manager / Senior Estate			11 17 17	0 1 6	796 25	\$0.00

		Abram Creek Total					
		CHANGE ORDER 2 C	OST PROPOSAL SCHE	DULE FOR COM	PD 4 Cm o		
	TASK 4	DESCRIPTION	UNIT	ORIGINAL CONTRACT	CHANGE ORDER	UNIT BID	TOTAL CHANGE OR
	5	Senior Engineer	IID	QUANTITY	QUANTITY	PRICE	AMOUNT
	6	Geologist/Scientist III	HR		0.00	\$220.80	
	7	Engineer II	HR		0.00	\$150.65	3
	8	Scientist IV	HR		0.00	\$131.10	Ş
	9	CADD Designer	HR		0.00	\$125.35	
		Vehicle	HR		0.00	\$142.60	\$
	10	Mileage	Day		0.00	\$150.00	\$
	11	Per Diem	Mile		0.00	\$0.655	\$
F-e			Day		0.00	\$150.00	\$(
1-6	-	PERMITTING WV Bureau of Healt	th (Water Y ! )				\$(
	1	Senior Technical Director					
	2	Engineering Technical Director	HR		0.00	\$318.55	
	3	Project Manager / Senior Engineer	HR		0.00	\$286.35	\$0
	4	Senior Engineer	HR		0.00	\$247.25	\$0
	5	Geologist/Scientist III	HR		0.00	\$220.80	\$0
-	6	Engineer II	HR		0.00	\$150.65	\$0.
	7	Scientist IV	HR		0.00	\$131.10	\$0.
-	8	CADD Designer	HR		0.00	\$125.35	\$0.
-	9	Vehicle	HR		0.00	\$142.60	\$0.
-	10	Mileage	Day		0.00	\$150.00	\$0.6
-	11	Per Diem	Mile		0.00	\$0.655	\$0.0
1			Day		0.00	\$150.00	\$0.0
-		INSTRUMENTATION & MONITORING					\$0.0
-	1	Sub-Project Manager / Senior Engineer					
	2	Sub-Staff Engineer	HR		0.00	\$161.00	
-	3	Sub-CADD Designer	HR			\$143.75	\$0.0
-	4	Sub-Electrical Technician	HR			\$97.75	\$0.00
-	5	Sub-Mileage	HR			\$126.50	\$0.00
-	6	Sub-Per Diem	Mile			\$0.860	\$0.00
_			Day			\$69.00	\$0.00
						VV2.00	\$0.00

	9,241, 740,44		Abram Creek Total					
_			CHANGE ORDER 2 COST P	ROPOSAL SCHE	DULE FOR CONT	TRACT 9		
	TASK	_	DESCRIPTION	UNIT	ORIGINAL CONTRACT QUANTITY	CHANGE ORDER QUANTITY	UNIT BID PRICE	TOTAL CHANGE ORD
H			PRE-BID CONFERENCE		Quinting.	QUANTITI	+	
	1		Senior Technical Director	HR		0.00	6210.55	
	2		Engineering Technical Director	HR		0.00	\$318.55	\$0
	3	1	Project Manager / Senior Engineer	HR		0.00	\$286.35	\$6
	4		Senior Engineer	HR			\$247.25	\$0
	5		Geologist/Scientist III	HR		0.00	\$220.80	\$0
	6		Engineer II	HR		0.00	\$150.65	\$(
	7		Scientist IV	HR		0.00	\$131.10	\$0
	8		CADD Designer	HR		0.00	\$125.35	\$0
	9		Vehicle			0.00	\$142.60	\$0
	10		Mileage	Day		0.00	\$150.00	\$0
	11		Per Diem	Mile		0.00	\$0.655	\$0
				Day		0.00	\$150.00	\$0
I			PRE-CONSTRUCTION CONFERENCE					
	1		Senior Technical Director					
	2		Engineering Technical Director	HR		0.00	\$318.55	\$0
	3			HR		0.00	\$286.35	\$0.
	4		Project Manager / Senior Engineer	HR		0.00	\$247.25	\$0.
	5		Senior Engineer	HR		0.00	\$220.80	\$0.
	6		Geologist/Scientist III	HR		0.00	\$150.65	\$0.
_	7		Engineer II	HR		0.00	\$131.10	\$0.
-			Scientist IV	HR		0.00	\$125.35	\$0.
	8		CADD Designer	HR		0.00	\$142.60	\$0.
_	9		Vehicle	Day		0.00	\$150.00	
	10		Mileage	Mile		0.00	\$0.655	\$0.
	11		Per Diem	Day		0.00	\$150.00	\$0.
	12		Construction Inspectors			0.00	\$150,00	\$0.0
		a	Construction Project Manager	HR		0.00	\$247.25	
		b	Senior Construction Inspector	HR		0.00	\$247.25	\$0.0
		c	Mid-Level Construction Inspection	HR		0.00	\$149.50	\$0.0
	1		Project Manager/Task Oversight	HR	100		\$132.25	\$0.0
			Task III Sub-Total	7,00	100	32.00	\$247.25	\$7,912.0
								\$36,208.9
IV: C	CONSTRUCTIO	N OVER	RSITE					
			Construction Observation Services	1 1				
	1		Senior Technical Director	TID.				
	2		Engineering Technical Director	HR		0.00	\$318.55	\$0.0
	3		Project Manager / Senior Engineer	HR		0.00	\$286.35	\$0.0
	4		Senior Engineer	HR		0.00	\$247.25	\$0.0
	5		Geologist/Scientist III	HR		0.00	\$220.80	\$0.0
	6		Engineer II	HR		0.00	\$150.65	\$0.0
	7		Scientist IV	HR		0.00	\$131.10	\$0.0
	8			HR		0.00	\$125.35	\$0.00
-	9		CADD Designer	HR		0.00	\$142.60	\$0.00
-	10		Vehicle	Day		0.00	\$150.00	\$0.00
$\dashv$	11		Mileage	Mile		0.00	\$0.655	\$0.00
-	12		Per Diem	Day		0.00	\$150.00	\$0.00
+			Arc Flash Study (MVI)	Each			\$5,324.50	\$0.00
-	13		Construction Inspection				,== 1.50	\$0.00
-		a	Construction Project Manager	HR		0.00	\$247.25	A0
		b	Senior Construction Inspector	HR		0.00	\$149.50	\$0.00 \$0.00

	Zin Lin Lin Lin Lin Lin Lin Lin Lin Lin L		Abram Creek Total					
			CHANGE ORDER 2 COST	PROPOSAL SCHOOL				
	TASK		D-11-1	JOSAL SCHE	DULE FOR CONT	TRACT 9		
		d	DESCRIPTION  Dual Certified CWI & NACE	UNIT	ORIGINAL, CONTRACT QUANTITY	CHANGE ORDER	UNIT BID	TOTAL CHANGE OF
		e	Office Work / AMLNET	HR	QUANTITY	QUANTITY	PRICE	AMOUNT
		f	Vehicle Vehicle	HR		0.00	\$149.50	
		g	Mileage	Day		0.00	\$132.25	
		h	Inspector Per Diem	Mile		0.00	\$150.00	
В	1			Day		0.00	\$0.655	\$
			Project Manager/Task Oversight	HR		0.00	\$210.00	\$
ASK V: P	OST-CONSTRU	CTION	Task IV Sub-Total	TIK		0.00	\$247.25	\$
A	T.A.	OTTON (						\$
	1		FIELD VISITS / INSPECTIONS	1				\$
	2		Senior Technical Director	TID				
	3		Engineering Technical Director	HR		0.00	\$318.55	
	4		Project Manager / Senior Engineer	HR		0.00	\$286.35	\$0
	5		Senior Engineer	HR		0.00	\$247.25	\$0
	6		Geologist/Scientist III	HR		0.00	\$220.80	\$0
-	7		Engineer II	HR		0.00	\$150.65	\$0.
	8		Scientist IV	HR		0.00	\$130.65	\$0.
-	9		CADD Designer	HR		0.00		\$0.
-	10		Vehicle	HR		0.00	\$125.35	\$0.0
-			Mileage	Day		0.00	\$142.60	\$0.0
	11	1	nspector Per Diem	Mile		0.00	\$150.00	\$0.0
-+	12	S	enior Construction Inspector	Day		0.44	\$0.655	\$0.0
		7	Task V Sub-Total	HR			\$210.00	\$0.0
			-~ I otal			0.00	\$149.50	\$0.0
			Total Change Order 2					\$0.0
								\$80,608.90

			RICHARD DRAINAC								
1				CHANGE	E ORDER 2 CO	ONTRAC	Т9				
-		TASK	DESCRIPTION		UNIT		ORIGINAL CONTRACT	CHAN ORDE		UNIT BID	TOTAL CHANGE
TA	SK I: NEPA	4.0 700			-		QUANTITY			PRICE	TOTAL CHANGE (
I A	A A	A & ESA									144700111
$\vdash$	^	7	Agency Coordinations (including Offic	e Work AMI	NET						-
		2	Technical Director	- WOIR, AIVIL							
		3	Engineering Technical Director		HR HR			0.00		\$318.55	
		4	Project Manager / Senior Engineer		HR			0.00		\$286.35	
		5	Senior Engineer		HR	+		0.00		\$247.25	
		6	Geologist/Scientist III		HR	_		0.00		\$220.80	
		7	Engineer II Scientist IV		HR			0.00	_	\$150.65	
		8	CADD Designer		HR			0.00	_	\$131.10	
		9	Vehicle		HR			0.00	-	\$125.35	
		10	Mileage		Day			0.00		\$142.60	
		11	Per Diem		Mile			0.00	-	\$150.00	Ş
					Day			0.00	-	\$0.655 \$150.00	\$
E	_	-	Public Involvement (Services Not Being I	Provide av					_	9150,00	\$
		1	Schol Technical Director	(10videa)	****						
		3	Engineering Technical Director		HR	-		0.00		\$318,55	4
		4	Project Manager / Senior Engineer		HR HR	-		0.00		\$286.35	\$(
		5	Senior Engineer		HR	-		0.00		\$247.25	\$(
		6	Geologist/Scientist III		HR	-		0.00		\$220.80	\$0
		7	Engineer II		HR	+		0.00		\$150.65	\$0
	8		Scientist IV  CADD Designer		HR	-		0.00		\$131.10	\$0
	9		Vehicle		HR			0.00		\$125.35	\$0
	10		Mileage		Day			0.00		\$142.60	\$0.
	11	_	Per Diem		Mile			0.00		150.00	\$0.
_	12		Fees		Day			0.00		150.00	\$0.
С	-			_	Per Fee			0.00		50.00	\$0.0
C	-	_	CATEX / EA / FONSI / EIS						1 3	50.00	\$0.0
	1 2		Senior Technical Director		IID						
	3	-	Engineering Technical Director		HR HR	-		0.00	\$3	18.55	A
	4		Project Manager / Senior Engineer		HR	_		0.00		86.35	\$0.0
	5	-	Senior Engineer		HR			0.00		47.25	\$0.0 \$0.0
	6		Geologist/Scientist III		HR			0.00	\$22	20.80	\$0.0
	7		Engineer II Scientist IV		HR			0.00	\$15	50.65	\$0.00
	8		CADD Designer		HR			0.00		1.10	\$0.00
	9		Vehicle Vehicle		HR			0.00		5.35	\$0.00
	10		Mileage		Day			0.00		2.60	\$0.00
	11		Per Diem		Mile			0.00	\$150		\$0.00
D	1		Program Manager/Task Oversight		Day			0.00	\$0.6		\$0.00
			Task I Sub-Total		HR			0.00	\$150 \$247		\$0.00
П. Р	EALTY								024/	.23	\$0.00
11: R	CALTY	-									\$0.00
	1	-	Exploratory Rights of Entry (EROE)								
	2		Project Manager / Senior Engineer		HR						
	3	-	Senior Engineer		HR			0.00	\$247	25	\$0.00
	4		CADD Designer		HR	0		000	\$220.	80	\$2,208.00
	.5		Engineer II		HR I	- 8		0.00	\$142.6	50	\$0.00
		a	Realty Agent Courthouse Work			8		0.00	\$131.1	10	\$7,866.00
		b		Н	IR			0.00			, , , , , , , , , , , , , , , , , , , ,
		c	Field Reconnaisance / Landowner Correspondence Office Work / AMLNET	е н		180		0.00	\$131.1		\$0.00
	6		Vehicle Vehicle	H	R	64		0.00	\$131.1		\$10,488.00
	7		Mileage	Da	ау	10		.00	\$131.10		\$3,933.00
	8		Per Diem	Mi				00	\$150.00		\$900.00
				Da	у	10	6.0		\$0.655		\$0.00
			Construction Rights of Entry (CROE)				0.0		\$150.00		\$900.00

			RICHARD DRAINAGE AREA	200				
- 1			CHANG	GE ORDER 2 CONT	TRACT 9		#	
_	TASK		DESCRIPTION	UNIT	ORIGINAL CONTRACT QUANTITY	CHANGE ORDER 1	UNIT BID	TOTAL CHANGE O
	2		Project Manager / Senior Engineer Senior Engineer	HR	Z	QUANTITY 0.00		AMOUNT
	3		CADD Designer	HR		0.00	\$247.25	
	4		Engineer II	HR		0.00	\$220.80 \$142.60	
	5		Realty Agent	HR		0.00	\$142.60	
		8	Courthouse Work				\$151.10	
_		ь	Field Reconnaisance / Landowner Correspondence	HR		0.00	\$131.10	
-		С	Office Work / AMLNET	HR		0.00	\$131.10	
_	6		Vehicle	HR		0.00	\$131.10	
_	7		Mileage	Day		0.00	\$150.00	
_	- 8		Per Diem	Mile Day		0.00	\$0.655	
С				Day		0.00	\$150.00	Ş
			Pre-Bid Conference					7
	2		Project Manager / Senior Engineer	HR				
	3		Engineer II	HR		0.00	\$247.25	\$
	4		Realty Agent	HR		0.00	\$131.10	\$(
	5		vehicle	Day		0.00	\$131.10	\$(
	6		dileage	Mile		0.00	\$150.00	\$0
		P	er Diem	Day		0.00	\$0.655	\$0
D		D	re-Construction Conference			0.00	\$150,00	\$0
	1	D.	roject Manager / Senior Engineer					
	2	Fa	oject Manager / Senior Engineer	HR		0.00	\$247.75	
	3		ealty Agent	HR		0.00	\$247.25 \$131.10	\$0
	4		Phiele	HR		0.00	\$131.10	\$0.
	5		leage	Day		0.00	\$150.00	\$0.
	6		r Diem	Mile		0.00	\$0.655	\$0.
				Day		0.00	\$150.00	\$0.
E	1	Dit	ect Cost & Fees(copies, recording)					\$0.0
F	1	Pro	gram Manager/Task Oversight	Each HR		0.00	\$2,600.00	\$0.0
	+ +	Ta	sk II Sub-Total	HK.	40	30.00	\$247.25	\$7,417.5
SK III.	DESIGN	11/						\$33,712.5
A	DESIGN							,, ,, ,
	1							
15-7	1	SITE	RECONNAISSANCE, INVESTIGATIONS AND PROPOSAL F	REPARATION				
	1 2	OCHI	RECONNAISSANCE, INVESTIGATIONS AND PROPOSAL F or Technical Director		0			
	2	Engi	neering Technical Director	PREPARATION HR HR	8	8.00	\$318.55	\$2,548.4
		Engi Proje	neering Technical Director  cet Manager / Senior Engineer	HR	0	8.00	\$286.35	\$2,290.86
	2 3	Engr Proje Senie	neering Technical Director  cet Manager / Senior Engineer  or Engineer	HR HR		8.00 30.00	\$286.35 \$247.25	\$2,290.86 \$7,417.50
	3 4	Engi Proje Senie Geole	neering Technical Director  cet Manager / Senior Engineer  or Engineer  ogist/Scientist III	HR HR HR	0	8,00 30.00 0.00	\$286.35 \$247.25 \$220.80	\$2,290.86 \$7,417.50 \$0.00
	2 3 4 5	Engi Proje Senie Geole Engir	or Technical Director  neering Technical Director  cet Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II	HR HR HR	0 25	8.00 30.00 0.00 8.00	\$286.35 \$247.25 \$220.80 \$150.65	\$2,290.86 \$7,417.50 \$0.00 \$1,205.20
	2 3 4 5	Engi Proje Senie Geol Engir	neering Technical Director  cet Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV	HR HR HR HR	0 25	8.00 30.00 0.00 8.00 0.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10	\$2,290.80 \$7,417.50 \$0.00 \$1,205.20 \$0.00
	2 3 4 5 6	Engi Proje Senie Geol Engir Scien	or Technical Director  neering Technical Director  cet Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer	HR HR HR HR HR HR	0 25	8.00 30.00 0.00 8.00 0.00 8.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35	\$2,290.80 \$7,417.50 \$0.00 \$1,205.20 \$0.00 \$1,002.80
	2 3 4 5 6 7 8	Engi Proje Senie Geol Engi Scien CADI	or rechnical Director  neering Technical Director  cet Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer  le	HR HR HR HR HR HR HR HR Day	0 25	8.00 30.00 0.00 8.00 0.00 8.00 0.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60	\$2,290.80 \$7,417.50 \$0.00 \$1,205.20 \$0.00 \$1,002.80 \$0.00
	2 3 4 5 6 7 8 9 10	Engi Proje Senie Geol Engir Scien	or rechnical Director  neering Technical Director  cet Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer  le  ge	HR HR HR HR HR HR HR HR HR MR	0 25 0	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00	\$2,290.8 \$7,417.50 \$0.00 \$1,205.20 \$0.00 \$1,002.80 \$0.00 \$600.00
	2 3 4 5 6 7 8 9 10 11	Engi Proje Seni Geol Engi Scien CADI Vehic Milea Per Di	or rechnical Director  neering Technical Director  cet Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer  le  ge  em  Sampling	HR Day Mile Day	0 25 0	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655	\$2,290.8t \$7,417.5c \$0.00 \$1,205.2c \$0.00 \$1,002.80 \$0.00 \$600.00
	2 3 4 5 6 7 8 9 10	Engi Proje Seni Geol Engi Scien CADI Vehic Milea Per Di	of Technical Director  neering Technical Director  oct Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer  le  ge	HR HR HR HR HR HR Day Mile Day Per Sample	0 25 0	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00 0.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00	\$2,290.8t \$7,417.5c \$0.00 \$1,205.2c \$0.00 \$1,002.80 \$0.00 \$600.00 \$0.00
	2 3 4 5 6 7 8 9 10 11	Engi Proje Senia Geola Engir Scien CADI Vehic Milea Per Di Water Geolog	of Technical Director  neering Technical Director  oct Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer  le  ge  em  Sampling gist/Scientist II	HR Day Mile Day	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00 0.00 0.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655	\$2,290.8t \$7,417.5c \$0.00 \$1,205.2c \$0.00 \$1,002.80 \$0.00 \$600.00 \$0.00 \$0.00
В	2 3 4 5 6 7 8 9 10 11 12 13	Engi Proje Senia Geola Engin Scien CADI Vehic Milea Per Di Water Geolog	or rechnical Director  neering Technical Director  cet Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer  le  ge  em  Sampling gist/Scientist II  EYING & MAPPING	HR HR HR HR HR HR Day Mile Day Per Sample	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00 0.00 0.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00	\$2,290.8t \$7,417.5c \$0.00 \$1,205.2c \$0.00 \$1,002.80 \$0.00 \$600.00 \$0.00
В	2 3 4 5 6 7 8 9 10 11 12 13	Engi Project Engi Project Senia Geolo Engii Scien CADI Vehic Milea Per Di Water Geolog SURV Project	or rechnical Director  neering Technical Director  out Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer  le  ge  em  Sampling gist/Scientist II  EYING & MAPPING  Manager / Senior Engineer	HR H	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00 0.00 0.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00	\$2,290.8 \$7,417.5 \$0.00 \$1,205.20 \$0.00 \$1,002.80 \$0.00 \$600.00 \$0.00 \$0.00
В	2 3 4 5 6 7 8 9 10 11 12 13	Engi Project Senior Project	or Fechnical Director  neering Technical Director  oct Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer  le  ge  em  Sampling gist/Scientist II  EYING & MAPPING  Manager / Senior Engineer  Engineer	HR H	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00 0	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00	\$2,290.8i \$7,417.5i \$0.00 \$1,205.2i \$0.00 \$1,002.80 \$0.00 \$600.00 \$0.00 \$0.00 \$2,888.00
В	2 3 4 5 6 7 8 9 10 11 12 13	Engi Project Senia Geolo Engin Scien CADI Vehic Milea Per Di Water Geolog SURV Project Senior	of Technical Director  neering Technical Director  oct Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer  le  ge  em  Sampling gist/Scientist II  EYING & MAPPING  Manager / Senior Engineer  Engineer  Designer	HR H	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00 0	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00 \$155.00 \$90.25	\$2,290.8t \$7,417.5c \$0.00 \$1,205.2c \$0.00 \$1,002.80 \$0.00 \$600.00 \$0.00 \$0.00 \$2,888.00
В	2 3 4 5 6 7 8 9 10 11 12 13	Engi Project Senia Geolo Engin Scien CADI Vehic Milea Per Di Water Geolog Survey	or Fechnical Director  neering Technical Director  oct Manager / Senior Engineer  or Engineer  ogist/Scientist III  neer II  tist IV  D Designer  le  ge  em  Sampling gist/Scientist II  EYING & MAPPING  Manager / Senior Engineer  Engineer  Designer  Project Manager	HR H	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00 0	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00 \$90.25	\$2,290.8i \$7,417.5i \$0.00 \$1,205.2i \$0.00 \$1,002.80 \$0.00 \$600.00 \$0.00 \$2,888.00 \$0.00 \$0.00 \$0.00
В	2 3 4 5 6 7 8 9 10 11 12 13	Engi Project Senior CADD Survey Professi	Designer  Sampling  gist/Scientist II  EYING & MAPPING  Manager / Senior Engineer  Designer  Dosigner  Designer  Dosigner  Dosigner  Dosigner	HR H	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00 0	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00 \$155.00 \$90.25	\$2,290.8i \$7,417.5i \$0.00 \$1,205.2i \$0.00 \$1,002.80 \$0.00 \$600.00 \$0.00 \$2,888.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
В	2 3 4 5 6 7 8 9 10 11 12 13	Engi Project Senior CADD Survey Professi Survey Engin	Designer Sampling Sampling Sampling Service MAPPING Manager / Senior Engineer  Designer  Beying & MAPPING Manager / Senior Engineer  Engineer  Designer  Lettist IV  Designer  Designer  Project Manager  Lettist IV  Lettist IV  Designer  Lettist IV  Lettis	HR H	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00 0	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00 \$90.25	\$2,290.8i \$7,417.5i \$0.00 \$1,205.2c \$0.00 \$1,002.80 \$0.00 \$600.00 \$0.00 \$2,888.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
В	2 3 4 5 6 7 8 9 10 11 12 13 1 2 3 4 5 6 7	Engi Project Senior CADD Survey Professi Surveyo Researcl	Designer  Sampling  EYING & MAPPING  Manager / Senior Engineer  Designer  Beying & Mapping  Manager / Senior Engineer  Engineer  Designer  Lettist IV  Lettist IV  Designer  Lettist IV  Lettist IV  Designer  Designer  Lettist IV  Let	HR H	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 0.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00 \$155.00 \$90.25 \$247.25 \$220.80 \$142.60 \$129.95 \$129.95 \$87.40	\$2,290.8i \$7,417.5i \$0.00 \$1,205.2i \$0.00 \$1,002.80 \$0.00 \$0.00 \$0.00 \$2,888.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3	2 3 4 5 6 7 8 9 10 11 12 13 1 2 3 4 5 6 7 8	Engi Project Senior CADD Survey Professi Survey Researcl Utility C	Designer  Sampling  EYING & MAPPING  Manager / Senior Engineer  Designer  EOG Designer  Berning Bernin	HR H	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 4.00 0.00 0	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00 \$90.25 \$247.25 \$220.80 \$142.60 \$129.95 \$129.95 \$129.95 \$142.60 \$129.95	\$2,290.8i \$7,417.5i \$0.00 \$1,205.2i \$0.00 \$1,002.80 \$0.00 \$0.00 \$0.00 \$2,888.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3	2 3 4 5 6 7 8 9 10 11 12 13 1 2 3 4 5 6 7	Engin Projo Senio Geolo Engin Scien CADD Water Geolog Survey Professi Surveyo Researcl Utility C R/W and	Designer  Sampling  EYING & MAPPING  Manager / Senior Engineer  Designer  Beying & Mapping  Manager / Senior Engineer  Engineer  Designer  Lettist IV  Lettist IV  Designer  Lettist IV  Lettist IV  Designer  Designer  Lettist IV  Let	HR H	0 25 0 16 4	8.00 30.00 0.00 8.00 0.00 8.00 0.00 0.00	\$286.35 \$247.25 \$220.80 \$150.65 \$131.10 \$125.35 \$142.60 \$150.00 \$0.655 \$150.00 \$155.00 \$90.25 \$247.25 \$220.80 \$142.60 \$129.95 \$129.95 \$87.40	\$2,290.8t \$7,417.5c \$0.00 \$1,205.2c \$0.00 \$1,002.80 \$0.00 \$0.00 \$0.00 \$2,888.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00

_		CHANG	E ORDER 2 CONT	RACT 9			
	TASK	DESCRIPTION	UNIT	ORIGINAL CONTRACT QUANTITY	CHANGE ORDER 1 QUANTITY	UNIT BID PRICE	TOTAL CHANGE ORE
_	11	Crew Member	HR		0.00	\$59,80	\$0
	13	Richard Rock Robotic (UAV Registration	Each		0.00	\$310.50	\$0
	14	Richard Aerotas (Arial Photo Stitching	Each		0.00	\$310.50	\$0
	15	Richard T3 Global (Third party LIDAR Processing	Each		0.00	\$7,452.00	\$0
	16	Mileage	Mile		0.00	\$0.655	\$0
	17	Survey Per Diem	Day		0.00	\$172.50	\$0
	18	Research - Costs - Deeds	Each		0.00	\$4.60	\$0
_	19	Research - Costs - Assessments	Each		0.00	\$1.15	\$0
	15	Research Costs - Recorded plans	Each		0.00	\$9.20	\$0
С							
		GEOTECHNICAL INVESTIGATION					
_	1	Project Manager / Senior Engineer	HR	24	30,00	\$247.25	¢7 417
	2	Geotechnical Engineer/Geologist	HR	100	50.00	\$150.65	\$7,417
	3	Mobilization / Demobilization per site	Each		0.00	\$25,875.00	\$7,532
	4	Soil Augering 8"	LF		0.00	\$57.50	\$0
	5	Soil Augering 6"	LF		0.00	\$57.30	\$0
	6	Rock Coring	LF	0	535.00	\$51.75	\$0.
	7	Air Rotary 6 inch	LF		0.00	\$57.50	\$27,686.
_	8	Air Rotary 4 inch	LF		0.00	\$51.75	\$0.
	9	8" Steel Casing	LF		0.00	\$74.75	\$0.
_	10	6" Steel Casing	LF		0.00		\$0.
_	11	Bentoniite (50# Bag)	Each		0.00	\$86.25	\$0.
	12	Grout	LF		0.00	\$20.70	\$0.
	13	8" Inner Casing (optional)	LF		0.00	\$23.00	\$0.
	14	6" Inner Casing (optional)	LF		0.00	\$74.75	\$0.
	15	Grout (Inner Casing optional)	LF			\$63.25	\$0.0
	16	MW Cap	Each		0.00	\$13.80	\$0.0
	17	Drill Crew Per Diem	Day		0.00	\$51.75	\$0.0
	18	Reclamation per site	Each	4	0.00	\$575.00	\$0.0
	19	Boring Logs/Geology	HR	30	3 00	\$1,150.00	\$3,450.0
	20	Geotechnical Investigation Report per site	Each	1	24.00	\$150.65	\$3,615.6
	21	Vehicle	Day	15	1.00	\$6,000.00	\$6,000.0
	22	Mileage	Mile	13	12.00	\$150.00	\$1,800.0
	23	Per Diem	Day		0.00	\$0.655	\$0.0
	24	Geologist/Scientist II	HR	0	0.00	\$150.00	\$0.0
	25	Transducers (3 units for 4 months)	Month	0	60.00	\$90.25	\$5,415.0
	26	water level meter	Day		12,00	\$652.05	\$7,824.6
	27	Mobilization / Demobilization for Core Drilling Rig	Each	0	16.00	\$85.10	\$1,361.6
	28	Rock Core Setup	Each	0	2.00	\$17,250.00	\$34,500.0
	29	6" PVC Riser	LF	0	7.00	\$258.75	\$1,811.2
			LF	0	60.00	\$51.75	\$3,105.0
III: DI	ESIGN (CONTINUI	ED)					
		ANALYSIS AND DESIGN					
	1	Senior Technical Director	HR				
	2	Engineering Technical Director			0.00	\$318.55	\$0.00
	3	Project Manager / Senior Engineer	HR HR		0.00	\$286.35	\$0.00
	4	Senior Engineer	HR		0.00	\$247.25	\$0.00
	5	Geologist/Scientist III	HR		0.00	\$220.80	\$0.00
	6	Engineer II			0.00	\$150.65	\$0.00
	7	Scientist IV	HR		0.00	\$131.10	\$0.00
_	8		HR		0.00	\$125.35	\$0.00
1	9	CADD Designer	HR		0.00	\$142.60	\$0.00
-		Vehicle	Day		0.00	\$150.00	
-	10	Mileage	Mile		0.00	\$0.655	\$0.00
-	11	Per Diem	Day		0.00	\$150.00	\$0.00
					2.00	\$150.0U	\$0.00
		PREPARATION OF PLANS, SPECIFICATIONS AND					

_			CHANGE ORDER 2 CONT.	RACT 9			
	TASK	DESCRIPTION	UNIT	ORIGINAL CONTRACT QUANTITY	CHANGE ORDER 1 QUANTITY	UNIT BID PRICE	TOTAL CHANGE ORDI
	2	Engineering Technical Director	HR		0.00	\$286.35	\$0
	3	Project Manager / Senior Engineer	HR		0,00	\$247.25	\$0.
	4	Senior Engineer	HR		0,00	\$220.80	\$0.
	5	Geologist/Scientist III	HR		0.00	\$150.65	\$0.
	6	Engineer II	HR		0.00	\$131.10	\$0.
	7	Scientist IV	HR.		0.00	\$125.35	\$0.
	8	CADD Designer	HR		0.00	\$142.60	\$0.
_	9	Vehicle	Day		0.00	\$150.00	\$0.
	10	Mileage	Mile		0.00	\$0.655	\$0.
	11	Per Diem	Day		0.00	\$150.00	\$0.
F-a	1	PERMITTING WVDEP Construction Senior Technical Director					
_	2		HR		0.00	\$318.55	\$0.0
_	3	Engineering Technical Director	HR		0.00	\$286.35	\$0.0
	4	Project Manager / Senior Engineer	HR		0.00	\$247.25	\$0.
	5	Senior Engineer	HR		0.00	\$220.80	\$0.0
_	6	Geologist/Scientist III Engineer II	HR		0.00	\$150.65	\$0.0
	7	Scientist IV	HR		0.00	\$131.10	\$0.0
	8	CADD Designer	HR		0.00	\$125.35	\$0.0
	9	Vehicle	HR		0.00	\$142.60	\$0.0
	10	Mileage	Day		0.00	\$150.00	\$0.0
	11	Per Diem	Mile		0.00	\$0.655	\$0.0
		Tot Diein	Day		0.00	\$150.00	\$0.0
F-b		PERMITTING USACE					
	1	Senior Technical Director	HR		0.00	\$318.55	\$0.0
	2	Engineering Technical Director	HR		0.00	\$286.35	\$0.0
	3	Project Manager / Senior Engineer	HR		0.00	\$247.25	\$0.0
	4	Senior Engineer	HR		0.00	\$220.80	\$0.0
	5	Geologist/Scientist III	HR		0.00	\$150.65	\$0.0
	6	Engineer II	HR		0.00	\$131.10	\$0.0
	7	Scientist IV	HR		0.00	\$125.35	\$0.0
-	8	CADD Designer	HR		0.00	\$142.60	\$0.0
	9	Vehicle	Day		0.00	\$150.00	\$0.0
-	10	Mileage	Mile		0.00	\$0.655	\$0.00
	11	Per Diem	Day		0.00	\$150.00	\$0.00
F-c		PERMITTING WVDOH					
	1	Senior Technical Director	HR		0.00	\$318.55	\$0.00
	2	Engineering Technical Director	HR		0.00	\$286.35	\$0.00
	3	Project Manager / Senior Engineer	HR		0.00	\$247.25	\$0.00
	4	Senior Engineer	HR		0.00	\$220.80	\$0.00
	5	Geologist/Scientist III	HR		0.00	\$150.65	\$0.00
	6	Engineer II	HR		0.00	\$131.10	\$0.00
	7	Scientist IV	HR		0.00	\$125.35	\$0.00
_	8	CADD Designer	HR		0.00	\$142.60	\$0.00
	9	Vehicle	Day		0.00	\$150.00	\$0.00
-	10	Mileage	Mile		0.00	\$0.655	\$0.00
	11	Per Diem	Day		0.00	\$150.00	\$0.00
-d		PERMITTING Local Permits					
	1	Senior Technical Director	HR		0.00	\$318.55	4
	2	Engineering Technical Director	HR		0.00		\$0.00
	3	Project Manager / Senior Engineer	HR		0.00	\$286.35	\$0.00
	4	Senior Engineer	HR		0.00	\$247.25 \$220.80	\$0.00
	5	Geologist/Scientist III	HR		0.00	\$150.65	\$0.00
	6	Engineer II	HR		0.00	\$130.65	\$0.00 \$0.00
	7	Scientist IV			0.00	4151110	50.00

		_		CHANGE ORDER 2	CONTRA	CT 0			
1	1	ASK	DESCRIPTION		CONTRA	ORIGINAL			44 7
		8	DESCRIPTION  CADD Designer	UN	IT	CONTRACT QUANTITY	CHANG ORDER QUANTI	1 UNIT BID	TOTAL CHANGE OF
		9	Vehicle	HI	₹		0.00	\$142.60	AMOUNT
_		10	Mileage	Da			0.00	\$150.00	5
		11	Per Diem	Mil			0.00	\$0.655	
-				Day	y		0.00	\$150,00	9
F-			PERMITTING WV Bureau of H	lealth (Water Line)					\$
		1	Senior Technical Director	HR					
		2	Engineering Technical Director	HR	-		0.00	\$318.55	Ş
			Project Manager / Senior Engineer	HR	-		0.00	\$286.35	\$(
	5		Senior Engineer	HR	-		0.00	\$247.25	\$(
	6		Geologist/Scientist III	HR	_		0.00	\$220.80	\$0
	7		Engineer II Scientist IV	HR			0.00	\$150.65	\$0
	8		CADD Designer	HR			0.00	\$131.10	\$0
	9		Vehicle	HR			0.00	\$125.35	\$0
	10		Mileage	Day			0.00	\$142.60 \$150.00	\$0
	11		Per Diem	Mile			0.00	\$0.655	\$0.
				Day			0.00	\$150,00	\$0.
G	-		INSTRUMENTATION & MONITORI	ING				2250,00	\$0.
	1		Sub-Project Manager / Senior Engineer						
	2		Sub-Staff Engineer	HR	-		0.00	\$161.00	ćo
-	3 4	-	Sub-CADD Designer	HR	-		0.00	\$143.75	\$0.0 \$0.0
	5	-	Sub-Electrical Technician	HR			0.00	\$97.75	\$0.0
	6	-	Sub-Mileage	Mile	+		0.00	\$126.50	\$0.0
	1		Sub-Per Diem	Day	1		0.00	\$0.86	\$0.0
Н			PRE RID CONTRACT				0.00	\$69.00	\$0.0
	1		PRE-BID CONFERENCE Senior Technical Director						
	2		Engineering Technical Director	HR			0.00	\$210.55	
	3		Project Manager / Senior Engineer	HR			0.00	\$318.55 \$286.35	\$0.00
	4		Senior Engineer	HR			0.00	\$247.25	\$0.00
	5		Geologist/Scientist III	HR			0.00	\$220.80	\$0.00
_	7		Engineer II	HR HR			0.00	\$150.65	\$0.00
	8	-	Scientist IV	HR			0.00	\$131.10	\$0.00 \$0.00
	9	+-	CADD Designer	HR	-		0.00	\$125.35	\$0.00
	10	-	Vehicle	Day	-		0.00	\$142.60	\$0.00
	11	-	Mileage	Mile	-		0.00	\$150.00	\$0.00
			Per Diem	Day	+		0.00	\$0.655	\$0.00
I			PRE-CONSTRUCTION				0.00	\$150,00	\$0.00
	1		PRE-CONSTRUCTION CONFERENCE Senior Technical Director						
	2		Engineering Technical Director	HR			0.00	\$210.55	
	3		Project Manager / Senior Engineer	HR			0.00	\$318.55 \$286.35	\$0.00
-	4		Senior Engineer	HR			0.00	\$247.25	\$0.00
-	5		Geologist/Scientist III	HR			0.00	\$220.80	\$0.00
-	6		Engineer II	HR			0.00	\$150.65	\$0.00
-	7 8		Scientist IV	HR HR			0.00	\$131.10	\$0.00 \$0.00
-	9		CADD Designer	HR			0.00	\$125.35	\$0.00
+	10		Vehicle	Day			0.00	\$142.60	\$0.00
$\top$	11		Mileage	Mile			0.00	\$150.00	\$0.00
	12		Per Diem	Day			0.00	\$0.655	\$0.00
		а	Construction Inspectors				0.00	\$150.00	\$0.00
		b	Construction Project Manager Senior Construction Inspector	HR			0.00	MO APP O A	
		c	Mid-Level Construction Inspection	HR			.00	\$247.25	\$0.00
	1		Program Manager/Task Oversight	HR				\$149.50	\$0.00
			Task III Sub-Total	HR	40	0.00		\$132.25	\$0.00
		OVER				2.4		\$247.25	\$5,934.00
									\$135,406.00

### RICHARD DRAINAGE - Project 3

Project			RICHARD DRAINAGE ARE	EA				
			CH	IANGE ORDER 2 CONTI	RACT 9			
A	TASK		DESCRIPTION	UNIT	ORIGINAL CONTRACT QUANTITY	CHANGE ORDER 1	UNIT BID PRICE	TOTAL CHANGE O
	1	-	Construction Observation Services		QUANTITY	QUANTITY	TRICE	AMOUNT
	2	-	Senior Technical Director	HR				
	3	-	Engineering Technical Director	HR		0.00	\$318.55	
	4	-	Project Manager / Senior Engineer	HR		0.00	\$286.35	
	5	+	Senior Engineer	HR		0.00	\$247.25	
	6	-	Geologist/Scientist III	HR	_	0.00	\$220.80	
	7	-	Engineer II	HR		0.00	\$150.65	
	8	+	Scientist IV	HR		0.00	\$131.10	4
	9	-	CADD Designer	HR		0.00	\$125.35	
-	10	-	Vehicle	Day		0.00	\$142.60	
			Mileage	Mile		0.00	\$150.00	
	11		Per Diem	Day		0.00	\$0.655	Ş
	12		Construction Inspection	Day		0.00	\$150.00	\$
		a	Construction Project Manager	HR				Y
		b	Senior Construction Inspector	HR		0.00	\$247.25	\$
	-	С	Mid-Level Construction Inspection	HR		0.00	\$149.50	\$
		đ	Office Work / AMLNET	HR		0.00	\$132.25	\$(
	-	e	Vehicle			0.00	\$132.25	\$(
-		f	Mileage	Day		0.00	\$150.00	\$(
D		g	Inspector Per Diem	Mile		0.00	\$0.655	\$0
В	1		Program Manager/Task Oversight	Day		0.00	\$210.00	\$0
			Tack IV Cak To ( )	HR		0.00	\$247.25	\$0
K V: P(	OST-CONSTR	UCTION (	OVERSITE					\$0
A			FIELD VISITS / INSPECTIONS					\$0
	1		Senior Technical Director	-		0.00		
	2		Engineering Technical Director	HR		0.00	\$318.55	ćo
	3		Project Manager / Senior Engineer	HR		0.00	\$286.35	\$0.
	4		Senior Engineer	HR		0.00	\$247.25	\$0.
-	5		Geologist/Scientist III	HR		0.00	\$220,80	\$0.
_	6		Engineer II	HR		0.00	\$150.65	\$0.0
	7		Scientist IV	HR		0.00	\$131.10	\$0.0
_	8		CADD Designer	HR		0.00	\$125.35	\$0.0
	9		Vehicle	HR		0.00	\$142.60	\$0.0
	10		Mileage	Day			\$150.00	\$0.0
	11		Inspector Per Diem	Mile		0.00	\$0.655	\$0.0
	12		Senior Construction Inspector	Day		0.00	\$210.00	\$0.0
			Task V Sub-Total	HR			\$149.50	\$0.0
			Dub-10tal				7.7700	\$0.00
N. H.			Total Change					\$0.0
			<b>Total Change Order 2</b>					

CHANGE ORDER SUMMARY

Tetra Tech - Contract 9; Change Order 2: 8-20-24



## WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

## Division of Highways

Gregory L. Bailey, P.E. Interim State Highway Engineer 1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highway:

July 12, 2023

### **MEMORANDUM**

TO:

District Engineers/Managers

District RW Managers District Utility Supervisors

FROM:

SUBJECT:

Route Research Request Form

Attached is the Route Research Request for form that is to be used when the public requests information on any route (RW width, road history, abandonments, redesignations, etc.). The form is available on our website as well.

https://transportation.wv.gov/highways/right-of-way/Pages/Route-Research-Request.aspx

Each request is to be submitted with a \$100 payment (currently by check only), and a separate request form is required for each route. The \$100 fee is for up to 2 hours of research time. If a request requires additional research time, the requestor is to pay an additional \$50 per hour for the estimated number of hours required to finish the research prior to completing the request.

All checks are to be deposited with the local bank that you use as one-way deposit. When submitting deposit information to Accounts Receivable, you must include the following:

Program: 2023990022

Phase: OT0001

Revenue Code: 9017-0000-0803-0058-6611-4238

All payroll charges for these Route Research Requests should be charged to the following:

Program: 2023990022

Org: 0062

Phase: OT0001

Auth: UO2601M

P/NP: N

LDPR: 17237

Activity Code: 166

Information Technology Division is in the process of creating a web-based app for the public to use. When it goes live, credit card payments will be accepted at that time.

If you have any questions, please contact Travis Rose at 304-414-6651 or travis.m.rose@wv.gov. CJT:R:r

cc: HD, HC, DR(PW)

# WEST VIRGINIA DIVISION OF HIGHWAYS - ROUTE RESEARCH REQUEST FORM

•Research fee \$100.00 for basic requests (up to 2 hours research time) •\$50.00 for each addition hour required for in-depth requests ·Checks made payable to WVDOH

•Research requests may take up to 12 weeks to complete from payment

•Research will not be done for HARP, Orphaned, Forest Service, Muni

## HIGHWAY PLANS ARE AVAILABLE TO THE PUBLIC AT: WWW.MAPWV.GOV/DOTPLANS/VIEWER

FOR DIVISION USE ONLY  Date Received:
RW Width:
Other Requested:
Total Research Time:  (only if greater than 2 hrs)  Additional Billing:   Date Additional  Payment Received:

RW-RO 2023-04-01



April 8, 2024

Mr. John Curry
West Virginia Department of Environmental Protection
Division of Land Restoration, Office of Abandoned Mine Lands & Reclamation
601 57<sup>th</sup> Street SE
Charleston, WV 25304

Subject:

Richard (Shaver) Drainage Project

Exploratory Drilling in the Rock Forge Mine

Monongalia County, WV

Dear Mr. Curry,

This letter report presents the results of the subsurface investigations to identify the depth to the mine, presence and conditions of mine voids, and the presence of water within the Rock Forge Mine. The site is located near the village of Richard, Monongalia County, WV. The objective of the Richard (Shaver) Drainage project is to lower the existing water level within the Rock Forge mine to a level that would stop or reduce acid mine drainage (AMD) discharges. It is planned to locate a vertical well pump or horizontal bore into the mine to lower the mine pool and pipe the water to the Richard AMD treatment plant. Exploratory drilling was conducted at four locations, refer to the attached Figure 1. Tetra Tech obtained Exploratory Right-of Entry agreements from property owners for the exploratory activities. Drilling locations were selected based on a review of the mine map, coal elevation, and accessibility of the location by the drill rig. The mine map and coal elevation contours were obtained from West Virginia Geological and Economic Survey.

### SITE DESCRIPTION

The Rock Forge Mine exploratory drilling site B-1 is located off Summer School Road on property owned by Mr. Michael Savage. Drilling site B-2 is located off Earl L Core Road (WV Route 7) on property owned by the Richard Self Storage. Drilling site B-3 is located off Summer School Road on property owned by G1 LLC and leased by Central Supply. Drilling site B-4 is located off Earl L Core Road on property owned by BHK Enterprises.

The project area is within the Allegheny Plateau section of the Appalachian Plateau Province. Bedrock underlying the project area consists of Pennsylvanian Age, Glenshaw Formation followed by the Freeport Formation. Typical rock for the Glenshaw formation consists of cyclic sequences of red and gray shale, siltstone, and sandstone, with thin limestone and coals. The Upper Freeport coal seam marks the transition from the Glenshaw formation and the Freeport Formation. The Rock Forge Mine is located within the Upper Freeport coal seam.

#### **FIELD ACTIVITIES**

Exploratory drilling at site B-1 was conducted from October 25 through October 28, 2023. Drilling at site B-2 was conducted from October 30 through October 31, 2023. Drilling at site B-3 was conducted from March 5 through March 6, 2024, and drilling at site B-4 was conducted from March 11 through March 12, 2024. Tetra Tech subcontracted Core Drilling, LLC of Bentleyville, PA to conduct the drilling activities. A



Tetra Tech field geologist directed, monitored and recorded the activities. Core Drilling utilized air rotary hammer drilling, which employes both rotational down force and impact force provided by a down-hole impact hammer and a rotating drill head. Drill cuttings are removed from the borehole by the injections of the drill rod and borehole.

Borings were drilled with an 8-inch diameter drill bit into competent, non- weathered bedrock A 6-inch diameter PVC casing was then installed, and a 4-inch diameter drill bit was utilized for the remainder of the boring. During the drilling process, a loss of pressure and return was assumed to indicate the presence of a void. If the boring did not encounter a void, the location was off-set and another attempt was made to locate a mine void.

Tetra Tech located the borings using a hand-held GPS unit. Final boring locations were surveyed by Monaloh Basin Engineers, Inc on March 12, 2024. Boring logs, photographs and a summary table of drilling activities are provided in Attachment A.

#### Boring B-1

Boring B-1 was drilled to a depth of approximately 219 ft below ground surface (bgs). Top of rock (weathered) was encountered at 23 ft bgs. Rock consisted of cyclical sequences of interbedded sandstone and shale. A surface casing was installed to 23 ft bgs. Water returns were considerable during the drilling process.

The mine void was encountered at a depth of 212.5 ft bgs to 219 ft bgs, resulting in an approximate void height of 6.5 feet.

A down hole camera survey was performed on B-1 on October 28, 2023, to review the conditions of the assumed void. The survey of B-1 showed water entering the borehole at a depth of 26.5 ft bgs. Water was not visible in the mine void. Based on the camera survey, the mine void contained approximately four cement-bentonite grout.

#### Boring B-2

Three borings, B-2\_A, B-2\_B, and B-2\_C, were drilled to a depth of approximately 60 ft bgs, 60 ft bgs, and 45.7 ft bgs, respectively. Top of rock was encountered at 3 ft bgs at B-2\_A, 4 ft bgs at B-2\_B, and 3.5 ft bgs at B-2\_C. The overburden consisted of sand with angular gravel. Rock consisted of cyclical sequences of interbedded sandstone and shale. Surface casing was installed to a depth of 3 ft bgs, 4 ft bgs, and 3.5 bgs respectively. Coal was encountered in B-2\_A and B-2\_B at 38 ft bgs and continued to 43 ft bgs. Surface casing was installed in B-2\_C to a depth of 3.5 ft bgs. Water returns were minimal during the drilling process and a dust sock was used to capture dust.

The mine void was encountered in B-2\_C at a depth of 39.5 ft bgs to 45.7 ft bgs, resulting in an approximate void height of 6.2 feet. The mine void was not encountered in B-2\_A or B-2\_B, but the Upper coal seam was encountered at an approximate depth of 38 ft bgs to 43 ft bgs with an average approximate thickness of five (5) feet.

A down hole camera survey was performed on B-2\_C on October 31, 2023, to review the conditions of the assumed void. Based on the video, the mine void appeared open, no caved material. The camera survey of B-2\_C encountered top of water at 44.1 ft bgs, believed to be the Rock Forge Mine pool. However, this only represents an approximate 1-ft mine pool, so it could just be water accumulating on the mine floor.



All borings were abandoned with cement-bentonite grout from the bottom of the borehole to ground level. The casing installed during drilling was removed for these borings.

#### Boring B-3

Boring B-3 was drilled to a depth of approximately 170.5 ft bgs. Top of rock (weathered) was encountered at 10 ft bgs. Rock consisted of sequences of sandstone, claystone, and shale. A surface casing was installed to a depth of 10 ft bgs. Water returns were minimal during the drilling process and a dust sock was used to capture dust until 166 ft bgs where water returns were considerable, and the sock was removed.

The mine void was encountered in B-3 at a depth of 164.5 ft bgs to 170.5 ft bgs, resulting in an approximate void height of 6 feet. The mine void contained approximately six (6) feet of debris, possibly from collapse of the roof of the mine. The water level was measured at 109 ft bgs (941.14 ft msl). A Van Essen micro diver transducer and barometer was installed on March 18, 2024, to monitor water level within the mine pool.

#### Boring B-4

Four borings, B-4\_A, B-4\_B, B-4\_C, and B-4\_D were drilled at an approximate depth of 59 ft bgs, 79 ft bgs, 74 ft bgs, and 69 ft bgs, respectively. Top of rock was encountered at 10 ft bgs. The overburden consisted of sandy silt. Rock consisted of claystone and shale. Surface casing was installed to a depth of 10 ft bgs. Coal was encountered approximately between 64 and 68 ft bgs. Water was encountered during drilling.

The mine void was not encountered in B-4 borings, but the Upper Freeport coal seam was encountered at an approximate depth of 64 ft bgs to 68 ft bgs with an average approximate thickness of four (4) feet.

The borings were grouted with cement-bentonite grout from the bottom of the borehole to ground level. The casing installed during drilling was removed for these borings.

#### MINE POOL

Tetra Tech sampled and monitored the AMD discharges listed in the OSM 51 document. Tetra Tech obtained water samples of AMD discharges on October 2, 2023, and measured flow from the discharges through December 2023. Samples were obtained from DI#1, DI#2, and CS#4/DI#3 and CS#3. The water quality results were previously provided to WVDEP. Other features noted in the OSM 51 document had no flow or the flow was not enough to sample at the time of the field visit. Tetra Tech also monitored a drainage pipe in front of the American Legion, but there was not flow from the pipe during the site visits. During the dates of monitoring, the highest flow measured was 1.15 gallons per minute (gpm) at DI#1 on December 6, 2023. Flows at the other sampling locations on the dates monitored were all under 1 gpm.

The lowest surface elevation of the AMD discharges (CS #1, 2 and 3) is at 920 ft msl and a minimum of 360 ft horizontally from the mine workings, the mine map does not show workings beneath these discharges. There could be unmapped workings or subsurface fractures that are allowing the discharges at those locations.

Based on the locations of the AMD discharges, the mine pool will need to be lowered to approximately 920 ft msl to stop or reduce the discharges. With an initial mine pool reading of 941 ft, the pool would need to be lowered by approximately 20 ft.

The method to lower the mine pool could be via a vertical extraction well pump or horizontal bore. The advantages of the use of a vertical extraction well pump includes that the pump rate can be adjusted, or pumping stopped during times when the mine pool is below discharge elevation. However, the vertical



well does need to be located over the mine and into an open entry. The advantage of a horizontal bore is that the bore entry does not need to overly the mine.

Multiple mine pool extraction locations have been evaluated based on the results of the exploratory drilling program, review of environmental impacts and constructability. Once the pump(s) location is selected, we will evaluate route(s) for conveyance pipe(s) from the pump to the Richards AMD treatment facility. It is planned to bury pipe(s) at least 3 feet beneath the ground surface. The routing of the pipeline(s) will be based on environmental impacts, constructability and number of properties crossed.

- The vertical or horizontal extraction location would need to be at coal elevation of 920 ft msl or lower based on the lowest AMD discharge elevation.
- The ideal location for a vertical extraction pump would be near a power line with three-phase power to power the pump.
- It is preferred for the extraction location to be near a road for ease of access and for routing of the pipeline to the Richard AMD treatment plant. Placing the pipeline within a Department of Highway right-of-way would reduce the number of construction rights-of-entry needed.
- A vertical pump location should not be located immediately near residential homes due to the noise from the pump; however, a sound dampening enclosure can be used.

Based on the drilling completed to-date, only boring B-3 meets these requirements. This location is approximately 6,100 feet from the Richard AMD Treatment plant (as measured along Summer School Road and WV Route 7). The extraction location would be downgradient (lower elevation) of the AMD treatment plant, so if chosen as the pump location, the pump would need to be sized for the appropriate head.

#### **CONCLUSIONS / RECOMMENDATIONS**

The mine void was encountered in three borings (B-1, B-2, and B-4). The mine void appeared to be partially collapsed within two of those borings. Water was encountered in borings B-2 and B-4. It is assumed that the water in boring B-2 does not represent the mine pool but could be water accumulating on the mine floor. The water level in B-3 was 941 ft in elevation at the time of drilling and the water levels will be monitored for up to two months to track the mine pool response to storm events. The transducer is set to record water level every 12 hours. It should be noted that this limited amount of mine pool level data will not represent seasonal variations. Also, with only one monitoring well, the mine pool cannot be monitored across the mine to determine the hydrologic connectivity of the mine pool.

It is recommended to evaluate and investigate additional drilling locations in order to attain sufficient mine pool level data to establish and determine hydrologic fluctuations of the mine pool as well as the hydrologic connectivity of the mine pool. Tetra Tech's reality staff had reached out to additional landowners who are located over the mine pool; however, those landowners either did not respond or replied that they were not interested. Due to the steep terrain and limited mine pool location, there are limited alternative drilling locations over the mine pool. We may to reach out to properties previously contacted.



This report summarizes the results of the four (4) exploratory bore holes which were proposed in the original scope of services of the Contract 9 Agreement. Any further evaluations and/or bore hole drilling would require authorization of a Change Order to the Contract 9 Agreement by WVDEP. Should you like to discuss this report, please do not hesitate to contact me at (412) 921-8051 or heather.trexler@tetratech.com.

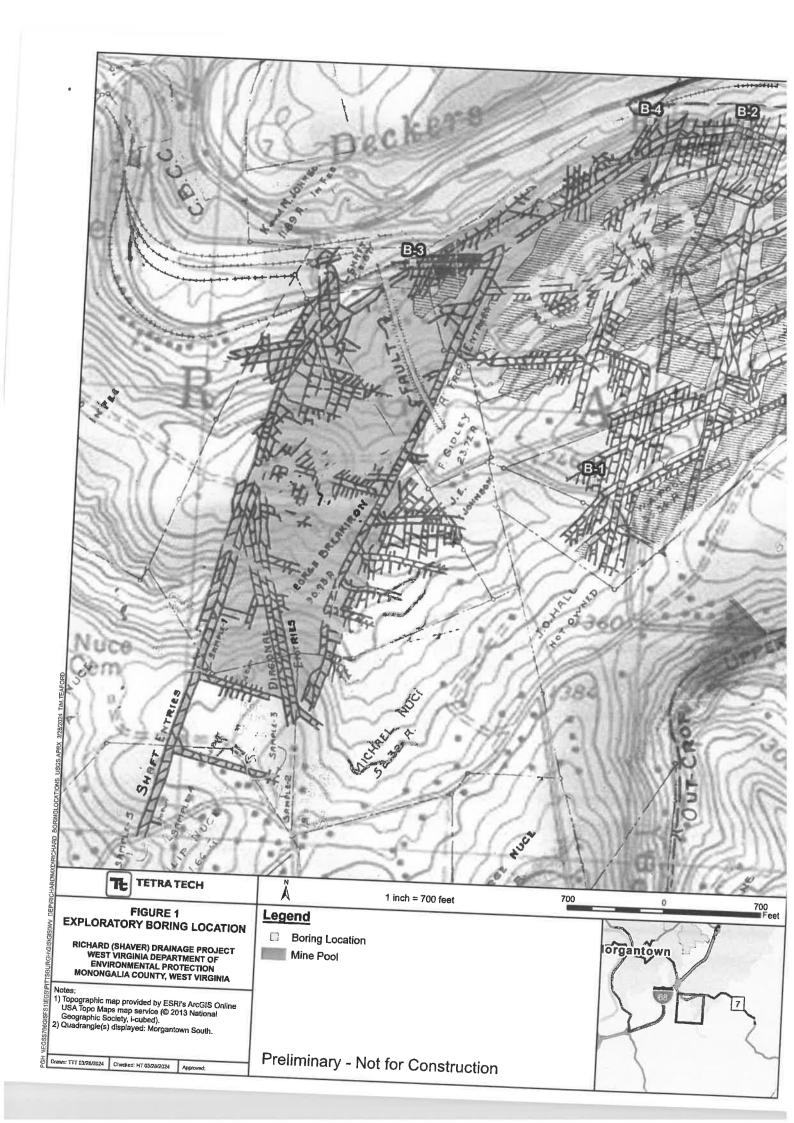
Respectfully Submitted,

Heather Trexler, PG Project Manager

Cc: Mike Kearns, PE - Tetra Tech



#### **ATTACHMENTS**



	Water Elevation* (ft msl) none 966.44	
	Depth to water* (ft bgs) none 44.1	
Rottom	Coal Elevation (ft msl) 1043.07 964.84 879.64	01/ 71
Depth to		200
Surface	msl) 1262.07 1010.54 1050.14 982.71	
	Latitude       Longitude         39°35'57.20"N       79°54'23.74"W         39°36'23.39"N       79°54'11.34"W         39°36'12.34"N       79°54'41.65"W         39°36'23.27"N       79°54'20.31"W	
	.39"N .34"N .27"N	
	Boring ID     Latitude       B-1     39° 35′ 57       B-2     39° 36′ 23       B-3     39° 36′ 12       B-4     39° 36′ 23	-

msl = mean sea level

none

none

914.71

bgs = below ground surface \*water level at the time of drilling

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	DAI	E STAR	TED 1	10/25/	23		<b>ED</b> _10/28/24	4	- LKONECT FO	OCATION A	Monongalia			
	DRIL	LING CO	ONTRA	CTOR	Core Drilli	ng			- AKOUND EL	EVATION 1	262 07 #	HOLE SIZE	= 4"	-
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GENERAL BH / TP / WELL - TT_NAVFAC_2018_V1.GDT - 4/8/24_09:08 - C:\USERS\GEORGE.HAMMOND\DESKTOP\R\CHARD_COMBINED\R\CHARD_384.GPJ			]											1
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# Tetra tech 661 Anderson Dr Pittsburgh, PA15220 Telephone, 4129217

## BORING NUMBER B-1 PAGE 2 0

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						FOG	GRAPHIC	U.S.C.S.	-	NUMBER	1	± (±) 11 (±) 35
ΓΟΝΕ and	dded SANDS	erbedded (	Interbed	Inter								35

# Tetra tech 861 Anderson Dr Pittsburgh, PA15220 Telephone: 4129217090

## BORING NUMBER B-1

PROJECT NAME Richard Drainage		WVDEP
PROJECT LOCATION Monongalia	212C-PB-02663	
MATERIAL DESCRIPTION	GRAPHIC LOG	SAMPLE TYPE NUMBER U.S.C.S.
I F make for	Interbedded SANDST	
LE rock fragments and dust. (continued)	Interbedded SANDST	

# Tetra tech 661 Anderson Dr Pittsburgh, PA15220

## BORING NUMBER B-1

	T WV		212C-	PROJECT NAME Richard Drainage	
				PROJECT LOCATION Monongalia	
E	SAMPLE TYPE NUMBER	oj.	5 (2)		
€	APLE JUME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
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+				Interbedded SANDSTONE and SHALE rock fragments and dust. (continued)	
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## BORING NUMBER B-1

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Richard Drainage  ATION Monongalia		C-PB-02663	2120	IBER		PROJ
SCRIPTION			GRAPHIC LOG	U.S.C.S.	SAMPLE TYPE NUMBER	DEPTH (#)
nd dust. (continued)	SANDSTONE	Interbed				155



## BORING NUMBER B-1\_

PROJI	ECT NU	MBER	212C-F	PROJECT NAME Richard Drainage PROJECT LOCATION Monongalia
DEPTH (#)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
200				Interbedded SANDSTONE and SHALE rock fragments and dust. (continued)
215			212.9	5 212.5': Top of void, tool drop.
				219.0': Bottom of void, auger refusal.  Bottom of borehole at 219.0 feet.
				Described at 215.0 feet.

#### **BORING NUMBER B-2** PAGE 1 0 CLIENT WYDEP PROJECT NAME Richard Drainage PROJECT NUMBER 212C-PB-02663 PROJECT LOCATION Monongalia DATE STARTED 10/30/24 COMPLETED 10/30/24 GROUND ELEVATION 1010.54 ft HOLE SIZE 4" DRILLING CONTRACTOR Core Drilling GROUND WATER LEVELS: DRILLING METHOD Air Rotary AT TIME OF DRILLING \_--LOGGED BY George Hammond CHECKED BY AT END OF DRILLING \_-- Dry NOTES AFTER DRILLING \_-- Backfilled and grouted DEPTH (ft) U.S.C.S. MATERIAL DESCRIPTION (SP) SAND with Gravel (Sandstone rock fragments) and silt, dry, low plastic, homogeneous, light gray, SP Interbedded SANDSTONE and SHALE dust and rock fragments, light gray.

GENERAL BH/TP/WELL-TT\_NAVFAC\_2018\_V1.GDT-4/8/24 09:08 - C:\USERS\GEORGE.HAMMOND\DESKTOP\RICHARD COMBINED\RICHARD 3&4.GPJ

**BORING NUMBER B-2** PAGE 2 OF CLIENT WVDEP PROJECT NAME Richard Drainage PROJECT NUMBER \_212C-PB-02663 PROJECT LOCATION Monongalia SAMPLE TYPE NUMBER GRAPHIC LOG U.S.C.S. MATERIAL DESCRIPTION Interbedded SANDSTONE and SHALE dust and rock fragments, light gray. (continued) COAL and SHALE dust and rock fragments, black. 40 Interbedded SANDSTONE and SHALE dust and rock fragments, light gray. 967 45 GENERAL BH / TP / WELL - TT\_NAVFAC\_2018\_V1.GDT - 4/8/24 09:08 - C:\USERS\GEORGE.HAMMOND\DESKTOP\RICHARD COMBINED\RICHARD 3&4.GPJ 55 Bottom of borehole at 60.0 feet.

# Tetra tech 661 Anderson Dr Pittsburgh, PA15220

### BORING NUMBER B-2 B

Telephone: 4129217090	DDO IECT NAME Dishard During in
ROJECT NUMBER 212C-PB-02663	
ATE STARTED _10/30/24	
RILLING CONTRACTOR Core Drilling	
RILLING METHOD _Air Rotary	
DGGED BY George Hammond CHECKED BY	AT END OF DRILLING Dry
OTES	AFTER DRILLING Backfilled and grouted
SAMPLE TYPE NUMBER U.S.C.S. GRAPHIC LOG	MATERIAL DESCRIPTION
	rock fragments) and silt, dry, low plastic, homogeneous, light gray,
Interhedded SANDSTONE and SHA	ALE dust and rock fragments, light gray.

**BORING NUMBER B-2 B** CLIENT WYDEP PROJECT NAME Richard Drainage PROJECT NUMBER 212C-PB-02663 PROJECT LOCATION Monongalia SAMPLE TYPE NUMBER GRAPHIC LOG U.S.C.S. DEPTH (ft) MATERIAL DESCRIPTION Interbedded SANDSTONE and SHALE dust and rock fragments, light gray. (continued) 972. COAL and SHALE dust and rock fragments, black. 40 967. Interbedded SANDSTONE and SHALE dust and rock fragments, light gray. 45 GENERAL BH / TP / WELL - TT\_NAVFAC\_2018\_V1.GDT - 4/8/24 09:08 - C:\USERS\GEORGE.HAMMOND\DESKTOP\RICHARD COMBINED\RICHARD 3&4.GPJ 55 950.5 Bottom of borehole at 60.0 feet.

	Æ	letra 661 A Pittsk Telep	tech Inderson Dr Durgh, PA15220 Hone: 4129217090	BORING NUMBER	<b>B-2</b>
	NT WVDE	Ρ		PRO IECT NAME DI L	
DATE	JECT NUMB	212C		PROJECT NAME Richard Drainage PROJECT LOCATION Monongalia	
DRILL	STARTED	10/31/24	0	GPOUND ELEVATION	
RILL	ING METH	OD Air Ro	Core Drilling	GROUND WATER LEVELS:  HOLE SIZE 4"	
-OGG	ED BY Ge	orge Hamn		AT TIME OF DRILLING	
)TE	s		mond CHECKED BY	AT END OF DRILLING 44.10 ft / Flev 966 44.4	
	ш			▼ AFTER DRILLING 43.60 ft / Elev 966.94 ft	
(#) 0	SAMPLE TYPE NUMBER U.S.C.S.	GRAPHIC		MATERIAL DESCRIPTION	
-	SP			ock fragments) and silt, dry, low plastic, homogeneous, light gray,	
7		3.0	Interbedded SANDSTONE and SHALE	E dust and rock fragments, light gray	1007

### BORING NUMBER B-2 C

# Tetra tech 661 Anderson Dr Pittsburgh, PA15220

## BORING NUMBER B-3 A

CLIENT W	VDEP		PROJECT NAME Richard Drainage		
	UMBER 212C-P		PROJECT LOCATION Monongalia		
	TED 3/5/24		GROUND ELEVATION 1050.14 ft HOLE SIZE 4"		
DRILLING C	ONTRACTOR C	ore Drilling	GROUND WATER LEVELS:		
DRILLING M	ETHOD Air Rota	ary	AT TIME OF DRILLING		
LOGGED BY	George Hamm	ond CHECKED BY	AT END OF DRILLING 109.00 ft / Elev 941.14 ft		
NOTES			▼ AFTER DRILLING 150.00 ft / Elev 900.14 ft Tansducer installed		
O DEPTH (ft) SAMPLE TYPE NUMBER	U.S.C.S. GRAPHIC LOG		MATERIAL DESCRIPTION		
	1 1 1 0.5	10.0012.			
5	SP	tan, residuum.	Mudstone rock fragments), damp, homogeneous, poorly graded, non plastic,		
10	10.0	Weathered MUDSTONE dust and	1		
15	19.5				
20		Sandy MUDSTONE dust and rock to	fragments, light gray.		
5		23.0': Some water coming up out at	beginning of subsequent runs.		

#### BORING NUMBER B-3\_A

	WVE		0.400	PROJECT NAME Richard Drainage	
PROJ	ECT NUI	MBER	2120	PROJECT LOCATION Monongalia	
DEPTH (ff)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
_				Sandy MUDSTONE dust and rock fragments, light gray. (continued)	
-					
40					
8 8					
1					
45					
1-					
-		2			
50					
-		1			
55					
33					
-					
60					
-		*			
17					
65					
-					
-					
0					
-			73.	) Lorginated even CANDATONE - LLL i com a	977.1
5				Laminated gray SANDSTONE and black SHALE dust and rock fragments, gray.	

## BORING NUMBER B-3 PAGE 3 OF

CLIENT WV		00 BB 00000	PROJECT NAME Richard Drainage
	IVIDER 21	2C-PB-02663	PROJECT LOCATION Monongalia
SAMPLE TYPE NUMBER	U.S.C.S. GRAPHIC		MATERIAL DESCRIPTION
0		Laminated gray SAND  102': Some weathered Co	OAL.

## BORING NUMBER B-3\_/ PAGE 4 OF

	IT WVI		2120	-PB-02663 PROJECT LOCATION Monongalia	
				PRODEST LOCATION Withomorgania	
DEPTH (ff)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
-				Laminated gray SANDSTONE and black SHALE dust and rock fragments, gray. (continued)	
1					
120				20.0	
-				Mudstone dust and rock fragments, light gray.	930
-					
125					
-					
30		200			
-		8///2			
		X			
5					
1					
0					
-					
5					
2				Ā	
+					
7					

#### BORING NUMBER B-3

PAGE 5 OF 9

CLIENT W			PROJECT NAME Richard Drainage
ROJECT N	UMBEF	2120	PROJECT LOCATION Monongalia
SAMPLE TYPE	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
60			Mudstone dust and rock fragments, light gray. (continued)
65			Void space, COAL rock fragments and water.
70		1	70.5 Bottom of borehole at 170.5 feet.

### **BORING NUMBER B-4**

٠	CLIENT	F	A F	etr 61 itts ele	a tech Anderson Dr Sburgh, PA15220 Phone: 4129217090	BORI	NG NUMBER B-4
				212	2C-PB-02663	PROJECT NAME Richard Drainage	
- 1	DATE ST	ARTE	D _3/	11/24	COMPLETED -	PROJECT LOCATION Monongalia	
	DRILLING	G CON.	TRAC	CTOR	Core Drilling	GROUND ELEVATION 982.71 ft	HOLE SIZE 4"
1.	DRILLING	METH	HOD	_Air F	Rotary	OROUND WATER LEVELS:	
1,	NOTES	BY G	eorg	e Hai	mmond CHECKED BY	AT TIME OF DRILLING	
-		T				AT END OF DRILLING	
	7 PE	œ		O		AFTER DRILLING 23.00 ft / Elev 95	9.71 ft Then backfilled and gro
	(ft) (A) SAMPLE TYPE	NUMBE		GRAPHIC LOG		MATERIAL DESCRIPTION	
-	4		7	1/2. St	1.0 TOPSOIL.		
-	-				(SP) SAND with Gravel (Mudstor	e rock fragments) and Silt, damp, homogeneous, p ne).	98
MMONDIDESKTOPIRICHARD COMBINEDIRICHARD 384.GPJ		SP		10.4			972.7
GENERAL BH / TP / WELL - TT_NAVFAC_2018_V1.GDT - 4/8/24 09:08 - C:USERSIGEORGE.HAMMONDIDESKTOPIRICHARD COMBINEDIRICHARD 384.GPJ  S				<u> </u>	4.0': - Some water coming up out at beg	inning of subsequent runs.	
						(Continued Next Page)	
						(Vondinued Next Page)	



## BORING NUMBER B-4 A

	IT WVE		2120	C-PB-02663 PROJECT LOCATION Monographic	
		T		C-PB-02663 PROJECT LOCATION Monongalia	
DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
35	<i>-</i>		XIIZ	MUDSTONE dust and rock fragments, gray. (continued)	
40				maso Total agos and Total magnitum, gray, (communica)	
1				44.0	
45		LIXELIENELLE		Weathered COAL dust and rock fragments, dark gray.	
55		TRUTTRUTTRUTTRUTT		MUDSTONE dust and rock fragments, gray.	
		TI KUT		57.0	
		1		Weathered COAL dust and rock fragments, dark gray to black.	
			<b>5</b> 59	9.0  Bottom of borehole at 59.0 feet.	

### **BORING NUMBER B-4 B** CLIENT WYDEP PROJECT NAME Richard Drainage PROJECT NUMBER 212C-PB-02663 PROJECT LOCATION Monongalia DATE STARTED 3/11/24 COMPLETED 3/11/24 GROUND ELEVATION 982.71 ft HOLE SIZE 4" DRILLING CONTRACTOR Core Drilling **GROUND WATER LEVELS:** DRILLING METHOD Air Rotary AT TIME OF DRILLING \_---LOGGED BY George Hammond CHECKED BY AT END OF DRILLING \_\_\_ ▼ AFTER DRILLING 36.00 ft / Elev 946.71 ft Then backfilled and groute NOTES SAMPLE TYPE NUMBER GRAPHIC LOG U.S.C.S. MATERIAL DESCRIPTION TOPSOIL. (SP) SAND with Gravel (Mudstone rock fragments) and Silt, damp, non plastic, poorly graded, homogeneous, dark gray, residuum (weathered Mudstone). BH / TP / WELL - TT\_NAVFAC\_2018\_V1.GDT - 4/8/24 09:08 - C:\USERS\GEORGE.HAMMOND\DESKTOP\RICHARD COMBINEDIRICHARD 3&4.GPU SP MUDSTONE dust and rock fragments, gray. 15 20

30

## BORING NUMBER B-4\_B PAGE 2 OF 3 CLIENT WVDEP PROJECT NAME Richard Drainage PROJECT NUMBER 212C-PB-02663 PROJECT LOCATION Monongalia SAMPLE TYPE NUMBER GRAPHIC LOG U.S.C.S. DEPTH (ft) MATERIAL DESCRIPTION ₩ MUDSTONE dust and rock fragments, gray. (continued) 40 GENERAL BH / TP / WELL - TT\_NAVFAC\_2018\_V1.GDT - 4/8/24 09:08 - C:USERSIGEORGE.HAMMONDIDESKTOPIRICHARD COMBINEDIRICHARD 3&4.GPJ 55 60 65 914.7 COAL dust and rock fragments, black. 70

(Continued Next Page)



### BORING NUMBER B-4\_B PAGE 3 OF 3

			16	sich	Miorie. 4129217090	
	CLIEN	T WVE	EP		PROJECT NAME Richard Drainage	
	PROJ	ECT NUI	<b>IBE</b> R	2120	C-PB-02663 PROJECT LOCATION Monongalia	
	DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
					COAL dust and rock fragments, black. <i>(continued)</i> 78.0	904.
ļ					79.0	903.
-1					MIDCTONE dust and real fragments are:	

MUDSTONE dust and rock fragments, gray.

Bottom of borehole at 79.0 feet.

#### **BORING NUMBER B-4 C** CLIENT WVDEP PROJECT NAME Richard Drainage PROJECT NUMBER 212C-PB-02663 PROJECT LOCATION Monongalia COMPLETED 3/12/24 DATE STARTED 3/12/24 GROUND ELEVATION 982.71 ft HOLE SIZE 4" DRILLING CONTRACTOR Core Drilling **GROUND WATER LEVELS:** DRILLING METHOD Air Rotary AT TIME OF DRILLING \_--LOGGED BY George Hammond CHECKED BY AT END OF DRILLING ---NOTES ▼ AFTER DRILLING 5.00 ft / Elev 977.71 ft Then backfilled and grouted SAMPLE TYPE NUMBER GRAPHIC LOG U.S.C.S. DEPTH (ft) MATERIAL DESCRIPTION TOPSOIL. (SP) SAND with Gravel (Mudstone rock fragments) and Silt, damp, non plastic, poorly graded, homogeneous, dark gray, residuum (weathered Mudstone). <u>v</u> GENERAL BH / TP / WELL - TT\_NAVFAC\_2018\_V1.GDT - 4/8/24 09:08 - C:\USERS\GEORGE.HAMMOND\DESKTOP'RICHARD COMBINEDIRICHARD 3&4.GPJ SP 10 972.7 MUDSTONE dust and rock fragments, gray. 20 25

30

# Tetra tech 661 Anderson Dr Pittsburgh, PA15220

## BORING NUMBER B-4\_C PAGE 2 OF 3

CLIENT	WVE			NOME: 4129217090 PROJECT NAME Richard Drainage	
PROJE	CT NUI	MBER	212C-PI	PB-02663 PROJECT LOCATION Monongalia	
S DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
40 45 50 60				MUDSTONE dust and rock fragments, gray. (continued)	
65				COAL dust and rock fragments, black.	
	-		68.0	MUDSTONE and SHALE dust and rock fragments, gray.	914.
			68.0	MUDSTONE and SHALE dust and rock fragments, gray.	914

(Continued Next Page)



#### **BORING NUMBER B-4** (

PAGE 3 OF 3

903.

CLIEN	JT	WW	DEP

PROJECT NAME Richard Drainage

PROJECT NUMBER \_212C-PB-02663

PROJECT LOCATION Monongalia

DEPTH
(ft)
SAMPLE TYPE
NUMBER

U.S.C.S. GRAPHIC LOG

MATERIAL DESCRIPTION

MUDSTONE and SHALE dust and rock fragments, gray. (continued)

79.0

Bottom of borehole at 69.0 feet.

GENERAL BH / TP / WELL - TT\_NAVFAC\_2018\_V1.GDT - 4/8/24 09:08 - C:\USERS\GEORGE.HAMMOND\DESKTOP\RICHARD COMBINED\RICHARD 3&4.GPJ

### **BORING NUMBER B-4 D** PAGE 1 OF 3 CLIENT WVDEP PROJECT NAME Richard Drainage PROJECT NUMBER 212C-PB-02663 PROJECT LOCATION Monongalia DATE STARTED 3/12/24 COMPLETED 3/12/24 GROUND ELEVATION 982,71 ft HOLE SIZE 4" DRILLING CONTRACTOR Core Drilling **GROUND WATER LEVELS:** DRILLING METHOD Air Rotary AT TIME OF DRILLING ---LOGGED BY George Hammond CHECKED BY AT END OF DRILLING \_--\_ ▼ AFTER DRILLING 0.00 ft / Elev 982.71 ft Then backfilled and grouted **NOTES** SAMPLE TYPE NUMBER GRAPHIC LOG U.S.C.S. DEPTH (ft) MATERIAL DESCRIPTION TOPSOIL (SP) SAND with Gravel (Mudstone rock fragments) and Silt, damp, non plastic, poorly graded, homogeneous, dark gray, residuum (weathered Mudstone). BH / TP / WELL - TT\_NAVFAC\_2018\_V1.GDT - 4/8/24 09:08 - C:\USERS\GEORGE.HAMMOND\DESKTOP\RICHARD COMBINED\RICHARD 3&4.GPJ SP 10 MUDSTONE dust and rock fragments, gray. 15 20 25

(Continued Next Page)

## BORING NUMBER B-4\_D PAGE 2 OF 3

PROJECT NUMBER   212C-P8-02663   PROJECT LOCATION   Mononcialia	CLIENT WV		siepiik	PROJECT NAME Richard Drainage	
MUDSTONE dust and rock fragments, gray. (continued)  55  60  COAL dust and rock fragments, black.			212C-PE		
MUDSTONE dust and rock fragments, gray. (continued)  45  50  60  COAL dust and rock fragments, black.	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG		
50  60  COAL dust and rock fragments, black.  88.0  MUDSTONE and SHALE dust and rock fragments, gray.	-			MUDSTONE dust and rock fragments, gray. (continued)	
COAL dust and rock fragments, black.  65  MUDSTONE and SHALE dust and rock fragments, gray.	45				
COAL dust and rock fragments, black.  68.0  MUDSTONE and SHALE dust and rock fragments, gray.	50				
68.0 MUDSTONE and SHALE dust and rock fragments, gray.	60				
MUDSTONE and SHALE dust and rock fragments, gray.	65			COAL dust and rock fragments, black.	
	70		68.0	MUDSTONE and SHALE dust and rock fragments, gray.	914.
1/87//					

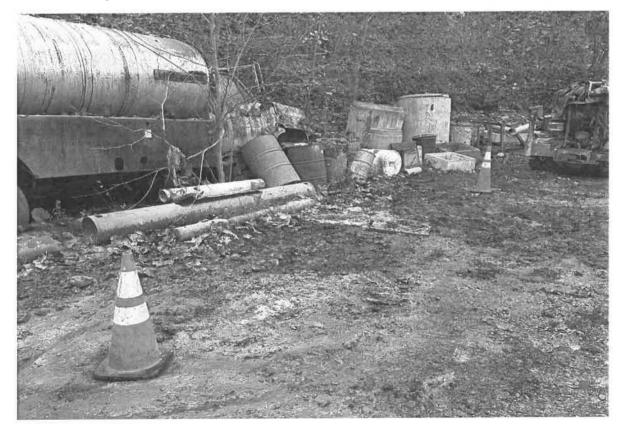


## BORING NUMBER B-4\_D PAGE 3 OF 3

CLIEN	IT WV		eleph	one: 4129217090	PROJECT NAME _ Richard Drainage	
PROJ	ECT NUI	MBER	212C-PE	3-02663	PROJECT LOCATION Monongalia	
DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION	
			79.0	MUDSTONE and SHALE dust and	rock fragments, gray. (continued)	903.
					Bottom of borehole at 74.0 feet.	



Boring B-1, Michael Savage Property, drilling completed October 28, 2023



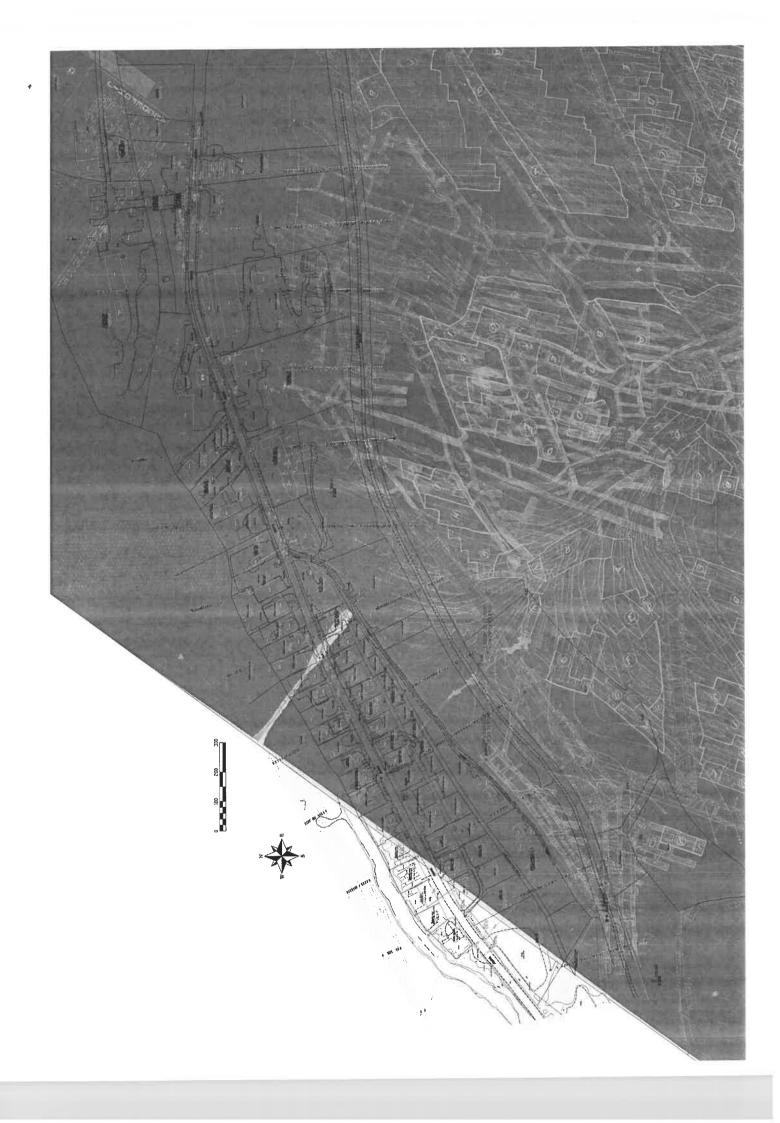
Boring B-2, and alternate boring that did not encounter a mine void, Richard Self Storage Property, drilling completed October 31, 2023



Boring B-3, G1 LLC/Central Supply Property, drilling completed March 6, 2024



Boring B-4, BHK Enterprises/Zellz Enterprises, drilling completed March 12, 2024



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#### West Virginia Secretary of State — Online Data Services

#### **Business and Licensing**

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#### **Business Organization Detail**

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#### TETRA TECH, INC.

Organization Information								
Org Type	Effective Date	Established Date	Filing Date	Charter	Class	Sec Type	Termination Date	Termination Reason
C   Corporation	12/13/2002		12/13/2002	Foreign	Profit			

Business Purpose	5413 - Professional, Scientific and Techincal Servies - Professional, Scientific and Techincal Servies - Architectural, Engineering and Related Services (landscape architects, drafting, geophysical mapping, testing labs)	Capital Stock	
Charter County		Control Number	52423
Charter State	DE	Excess Acres	
At Will Term		Member Managed	
At Will Term Years		Par Value	
Authorized Shares		Young Entrepreneur	Not Specified

Addresses				
Туре	Address			
Local Office Address	1538 KANAWHA BLVD CHARLESTON, WV, 25387			
Mailing Address	3475 E. FOOTHILL BLVD. PASADENA, CA, 91107 USA			
Notice of Process Address	C T CORPORATION SYSTEM 5098 WASHINGTON ST W STE 407 CHARLESTON, WV, 253131561			
Principal Office Address	3475 E. FOOTHILL BLVD. PASADENA, CA, 91107 USA			
Туре	Address			

Officers				
Туре	Name/Address			
Director	GARY R. BIRKENBEUEL 3475 EAST FOOTHILL BLVD. PASADENA, CA, 91107			
Director	PRASHANT GANDHI 3475 E FOOTHILL BLVD PASADENA, CA, 91107			
Incorporator	RICHARD A. LEMMON 630 N. ROSEMEAD BLVD. PASADENA, CA, 91107 USA			
Secretary	PRESTON HOPSON 3475 EAST FOOTHILL BLVD. PASADENA, CA, 91107			
Туре	Name/Address			

DBA						
DBA Name	Description	Effective Date	Termination Date			
MAXIM TECHNOLOGIES	TRADENAME	5/13/2004	10/3/2006			
MCNAMEE INDUSTRIAL SERVICES, INC.	TRADENAME	4/4/2003	5/28/2008			
DBA Name	Description	Effective Date	Termination Date			

## COMPLIANCE VERIFICATION CHECKLIST FOR REQUISITION SUBMISSION

Purchasing Division Use:  Buyer: Date: 10-1-24	Agency: WV Department of Environmental Protection
Solicitation No. CPO DEP23 A07	Procurement Officer Submitting Requisition: Jessica Chambers
C/0#2	Requisition No. CPO DEP2300000032
	PF No.: 1047664

This checklist **MUST** be completed by a state agency's designated procurement officer and submitted with the Purchase Requisition to the Purchasing Division. The purpose of the checklist is to verify that an agency procurement officer has obtained and included required documentation necessary for the Purchasing Division to process the requisition without future processing disruptions. At the agency's preference, the agency **MUST** either submit the checklist by attaching it to the requisition's Header **OR** by placing it in the requisition's Procurement Folder.

#### FOR ALL SOLICITATION TYPES:

	Compliance Check Type	Required	Provided, if Required	Not Required	Purch. Div. Confirmation
1	Specifications and Pricing Page included	$\square$			
2	Use of correct specification template				
3	Use of correct requisition type [CRQS → CCT or CPO] or [CRQM → CMA]				
4	Use of most current terms and conditions (www.state.wv.us/admin/purchase/TCP.pdf)	Ø			
5	Maximum budgeted amount in wvOASIS	$\square$			
6	Suggested vendors in wvOASIS	$\checkmark$			
7	Capitol Building Commission pre-approval				
8	Financing (Governor's Office) pre-approval				
9	Fleet Management Division pre-approval				

Form No. WV-36 Rev. 10/26/2022

Mergers				
Merger Date	Merged	Merged State	Survived	Survived State
3/31/2003	MCNAMEE, PORTER & SEELEY, INC.	MI	TETRA TECH, INC.	DE
3/31/2003	MCNAMEE INDUSTRIAL SERVICES, INC.	МІ	TETRA TECH, INC.	DE
1/22/2004	WILLIAMS, HATFIELD & STONER, INC.	FL	TETRA TECH, INC.	DE
4/7/2004	MAXIM TECHNOLOGIES, INC.	DE	TETRA TECH, INC.	DE
7/25/2007	SCIENCES INTERNATIONAL, INC.	DE	TETRA TECH, INC.	DE
1/6/2012	INCA ENGINEERS, INC.	WA	TETRA TECH, INC.	DE
1/6/2012	TETRATECH NUS, INC.	DE	TETRA TECH, INC.	DE
10/8/2012	TETRA TECH HEI, INC.	TN	TETRA TECH, INC.	DE
2/11/2013	TETRA TECH EM, INC.	DE	TETRA TECH, INC.	DE
2/11/2013	GEOTRANS, INC.	VA	TETRA TECH, INC.	DE
Merger Date	Merged	Merged State	Survived	Survived State

Date	Amendment
2/11/2013	MERGER: MERGING TETRA TECH EM, INC., A QUALIFIED DE CORPORATION, GEOTRANS, INC., A NON-QUALIFIED VA ORGANIZATION WITH AND INTO TETRA TECH, INC., A QUALIFIED DE CORPORATION, THE SURVIVOR
10/8/2012	MERGER: MERGING TETRA TECH HEI, INC., A NON-QUALIFIED TN ORGANIZATION WITH AND INTO TETRA TECH, INC., A QUALIFIED DE CORPORATION, THE SURVIVOR
1/6/2012	MERGER: MERGING INCA ENGINEERS, INC., A NON-QUALIFIED WA ORGANIZATION, TETRA TECH NUS, INC., A QUALIFIED DE CORPORATION WITH AND INTO TETRA TECH, INC., A QUALIFIED DE CORPORATION, THE SURVIVOR
3/13/2009	RESTATED CERTIFICATE FILED
7/25/2007	MERGER: MERGING SCIENCES INTERNATIONAL, INC., A NON- QUALIFIED DE ORGANIZATION WITH AND INTO TETRA TECH, INC., A QUALIFIED DE CORPORATION, THE SURVIVOR
4/7/2004	MERGER: MERGING MAXIM TECHNOLOGIES, INC., A QUALIFIED DE CORPORATION WITH AND INTO TETRA TECH, INC., A QUALIFIED DE CORPORATION, THE SURVIVOR
1/22/2004	MERGER: MERGING WILLIAMS, HATFIELD & STONER, INC., A NON-QUALIFIED FL ORGANIZATION WITH AND INTO TETRA TECH, INC., A QUALIFIED DE CORPORATION, THE SURVIVOR
3/31/2003	MERGER: MERGING MCNAMEE INDUSTRIAL SERVICES, INC., A QUALIFIED MI CORPORATION WITH AND INTO TETRA TECH, INC., A

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	Compliance Check Type	Required	Provided, if Required	Not Required	Purch. Div. Confirmation
10	Insurance requirements			_	- carypanents
	Commercial General Liability				
	Automobile Liability			Ц	
	Workers' Compensation/Employer's Liability			П	
	Cyber Liability				
	Builder's Risk/Installation Floater				
	Professional Liability				
	Other (specify)			Ш	
11	Office of Technology CIO pre-approval			Ш	
12	Treasurer's Office (banking) pre-approval				
OR	CHANGE ORDERS/RENEWAL	S:		-	ᅜ
1	Two-party agreement				v V
2	Standard change order language	$\square$			
3	Office of Technology CIO approval				
4	Justification for price increases/backdating/other				
5	Bond Rider (Construction)			V	
6	Secretary of State Verification	abla			
7	State debarment verification		NAME OF THE PROPERTY OF		
8	Federal debarment verification		V		i isian Failura
to con agen The r For	items pre-checked are required before a Purcha mplete and verify this documentation may result procurement officer to determine if pre-appropriate information below may be used to make the purchasing Division Use Only:  The reviewed the requisition identified above an review does not preclude the possibility that the cern; however, should such issues or concerns a second concerns a secon	ovals, insurance, ake this determi d find that it is s	or other document	itation is needed f	vendor commun
con	Signature:		)		

Form No. WV-36 Rev. 10/26/2022