

United States Department of the Interior

U.S. GEOLOGICAL SURVEY
Ohio-Kentucky-Indiana Water Science Center

OHIO 6460 Busch Boulevard, Suite 100 Columbus, Ohio 43229-1737

KENTUCKY 9818 Bluegrass Parkway Louisville, Kentucky 40299-1906 INDIANA 5957 Lakeside Boulevard Indianapolis, Indiana 46278-1996

April 25, 2019

Mr. Gregory Lubeck Engineering Section Manager Lexington-Fayette Urban County 101 E. Vine St. 4th Floor Lexington, KY 40507

Dear Mr. Lubeck:

Enclosed are two signed originals of our standard joint-funding agreement 19NFJFA00000129 for the operation and maintenance of multiple streamgages (per attachment), during the period July 1, 2019 through June 30, 2020 in the amount of \$118,450 from your agency. U.S. Geological Survey contributions for this agreement are \$54,500 for a combined total of \$172,950. Please sign and return one fully-executed original to Damon Williams at the Indianapolis address above.

Federal law requires that we have a signed agreement before we start or continue work. Please return the signed agreement by **July 1, 2019**. If, for any reason, the agreement cannot be signed and returned by the date shown above, please contact Jeff Woods by phone number (317) 600-2762 or email jwoods@usgs.gov to make alternative arrangements.

This is a fixed cost agreement to be billed quarterly via Down Payment Request (automated Form DI-1040). Please allow 30-days from the end of the billing period for issuance of the bill. If you experience any problems with your invoice(s), please contact Damon Williams at phone number (317) 600-2774 or email at dlwilliams@usgs.gov.

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. The U.S. Geological Survey appreciates the opportunity to work with the Lexington-Fayette Urban County and looks forward to continuing the relationship in future fiscal years.

Sincerely,

MICHAEL Digitally signed by MICHAEL GRIFFIN Date: 2019.04.29 10:44:49-04'00'

Michael Griffin Director

Enclosure 19NFJFA00000129 (2)

U.S. Department of the Interior U.S. Geological Survey Joint Funding Agreement FOR

Water Resource Investigations

Customer #: 6000001402 Agreement #: 19NFJFA00000129 Project #: NF00GWQ

TIN #: 61-0858140

Fixed Cost Agreement YES[X]NO[]

THIS AGREEMENT is entered into as of the July 1, 2019, by the U.S. GEOLOGICAL SURVEY, OKI Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Lexington-Fayette Urban County party of the second part.

- 1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation the operation and maintenance of multiple streamgages (per attachment), herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.
- 2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00
 - (a) \$54,500 by the party of the first part during the period July 1, 2019 to June 30, 2020
 - (b) \$118,450 by the party of the second part during the period July 1, 2019 to June 30, 2020
 - (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0

Description of the USGS regional/national program: N/A

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.
- 3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.
- 4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.
- 5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.
- 6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.
- 7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.
- 8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (https://www2.usgs.gov/fsp/).

U.S. Department of the Interior U.S. Geological Survey Joint Funding Agreement FOR

Customer #: 6000001402 Agreement #: 19NFJFA00000129 Project #: NF00GWQ

TIN #: 61-0858140

Water Resource Investigations

9. Billing for this agreement will be rendered <u>quarterly</u>. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

	USGS Technical Point of Contact		Customer Technical Point of Contact
Name: Address: Telephone: Fax: Email:	Jeff Woods Supervisory Hydrologist 5957 Lakeside Blvd. Indianapolis, IN 46278 (317) 600-2762 (317) 290-3313 jwoods@usgs.gov	Name: Address: Telephone: Fax: Email:	Gregory Lubeck Engineering Section Manager 101 E. Vine St. 4th Floor Lexington, KY 40507 (859) 258-3446 (859) 425-2461 glubeck@lexingtonky.gov
	USGS Billing Point of Contact		Customer Billing Point of Contact
Name: Address: Telephone: Fax: Email:	Damon Williams Budget Analyst 5957 Lakeside Blvd. Indianapolis, IN 46278 (317) 600-2774 (317) 290-3313 dlwilliams@usgs.gov	Name: Address: Telephone: Fax: Email:	Gregory Lubeck Engineering Section Manager 101 E. Vine St. 4th Floor Lexington, KY 40507 (859) 258-3446 (859) 425-2461 glubeck@lexingtonky.gov
	U.S. Geological Survey United States Department of Interior	Le	exington-Fayette Urban County
	Signature		Signatures
MICHAEL By GRIFFIN Name: Micha Title: Directo	Date: 04/25/2019 el Griffin	By Name: Title:	Date:
		By Name: Title:	Date:
		By Name: Title:	Date:

Lexington-Fayette Urban County

Attachment for 19NFJFA00000129 7/1/2019 to 6/30/2020

SURFACE WATER

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. OTHER CASH FUNDS	TOTAL COST
03284525	E HICKMAN CR TRIB AT CHILES	BURG RD NR QCONT	LEXINGTO	N,KY 1 SW Total:	\$5,200	\$8,150	642 DEC
							\$13,350
03284533	EAST HICKMAN CR AT TATES C Full Range Streamflow Station	R RD NR EAST QCONT	FHICKMAN 1	I, KY 1	\$5,200	\$8,150	
	ū			SW Total:			\$13,350
03284552	WEST HICKMAN CR AT VETERA	NS PARK NR I	EXINGTO	N, KY			
	Full Range Streamflow Station	QCONT	1	1	\$5,200	\$8,150	440.054
				SW Total:			\$13,350
03287590	N ELKHORN CR AT WINCHESTE Full Range Streamflow Station	R RD NR LEXI QCONT	NGTON, K	Y 1	\$5,200	\$8,150	
	ruii hange Sileaniilow Stallon	GCONT	'	SW Total:	\$5,200	ф6,150	\$13,350
03287600	N ELKHORN CR AT BRYAN STAT	ION RD AT M	ONTROSE	KY			
00207000	Full Range Streamflow Station	QCONT	1	1	\$5,200	\$8,150	
				SW Total:			\$13,350
03288180	CANE RUN CREEK AT CITATION						
	Full Range Streamflow Station	QCONT	1	1 SW Total:	\$5,200	\$8,150	\$13,350
							\$10,05 0
03288190	TRIB TO CANE RUN CR AT NEW Full Range Streamflow Station	QCONT	LEXINGTO 1	N, KY 1	\$5,200	\$8.150	
	Tun hange oneamlow oranion	Q,OOM1	·	SW Total:	ψυ,ευυ	ψ0, 130	\$13,350
03289000	SOUTH ELKHORN CREEK AT FO	RT SPRING, K	Y				
	Full Range Streamflow Station	QCONT	1	1	\$5,200	\$8,150	
				SW Total:			\$13,350
03289193	WOLF RUN AT OLD FRANKFORT		NGTON, K	Υ			
	Full Range Streamflow Station	QCONT	1	1 SW Total:	\$5,200	\$8,150	\$13,350
	TOWN DE MICH.						φ10,000
03289200	TOWN BRANCH AT YARNALLTOI Full Range Streamflow Station	N ROAD AT YA QCONT	ARNALLTO 1	N, KY 1	\$5,200	\$8,150	
	- III rango on outmon outfoll	400111	•	SW Total:	ψυ, Σ 00	40,100	\$13,350
			SW	Grand Total:	\$52,000	\$81.500	\$133,500

CLIMATE

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. OTHER CASH FUNDS	TOTAL COST
03284525	E HICKMAN CR TRIB AT CI Precipitation, Continuous	HILESBURG RD NE	R LEXING1	ron,ky		\$800	
	r recipitation, Continuous	THEOR CONT		CLIM Total:		φουσ	\$800
03284533	EAST HICKMAN OR AT TA			AN, KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03284552	WEST HICKMAN CR AT VE	TERANS PARK NE	RLEXINGT	ON, KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03287590	N ELKHORN CR AT WINCH			KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03287600	N ELKHORN CR AT BRYAN	STATION RD AT I	MONTROS	E, KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03288180	CANE RUN CREEK AT CITA	ATION BLVD NR LE	EXINGTON	, KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03289000	SOUTH ELKHORN CREEK	AT FORT SPRING,	KY				
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03289200	TOWN BRANCH AT YARNA	LLTON ROAD AT	YARNALL1	ON, KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
380249084295001	DOWNTOWN LEX. @ LFUC	G BLDG ON E MAI	IN ST @ LI	EX., KY			
	Precipitation, Continuous	PRECIPCONT	1	1 CLIM Total:	\$2,500	\$4,000	\$6,500
			CLIM	Grand Total:	\$2,500	\$10,400	\$12,900

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. CASH	OTHER FUNDS	TOTAL
03284533	EAST HICKMAN CR AT TATES	S CR RD NR EAS	T HICKMAI	N, KY				
	Water Quality, Continuous	WQCONT	1	1		\$26,550		
	•			WQ Total	:			\$26,550
			W	Grand Total	:	\$26,550		\$26,550

		<			
	SUMMARY FOR 1	9NFJFA0000012	9		
	Lexington-Fayeti	le Urban County	,		
ТҮРЕ		USGS FUNDS	CUST. CASH	OTHER FUNDS	COST
SURFACE WATER (SW)		\$52,000	\$81,500		\$133,500
CLIMATE (CLIM)		\$2,500	\$10,400		\$12,900
(WQ)			\$26,550		\$26,550
	GRAND TOTAL	\$54,500	\$118,450		\$172,950

U.S. Department of the Interior U.S. Geological Survey Joint Funding Agreement FOR

Water Resource Investigations

Customer #: 6000001402 Agreement #: 19NFJFA00000129 Project #: NF00GWQ

TIN #: 61-0858140

Fixed Cost Agreement YES[X]NO[]

THIS AGREEMENT is entered into as of the July 1, 2019, by the U.S. GEOLOGICAL SURVEY, OKI Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Lexington-Fayette Urban County party of the second part.

- 1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation the operation and maintenance of multiple streamgages (per attachment), herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.
- 2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00

(a) \$54,500 by the party of the first part during the period July 1, 2019 to June 30, 2020

(b) \$118,450 by the party of the second part during the period July 1, 2019 to June 30, 2020

(c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0

Description of the USGS regional/national program: N/A

- (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.
- 3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.
- 4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.
- 5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.
- 6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.
- 7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.
- 8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (https://www2.usgs.gov/fsp/).

U.S. Department of the Interior U.S. Geological Survey Joint Funding Agreement FOR

Customer #: 6000001402 Agreement #: 19NFJFA00000129

Project #: NF00GWQ TIN #: 61-0858140

Water Resource Investigations

9. Billing for this agreement will be rendered <u>quarterly</u>. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

	USGS Technical Point of Contact		Customer Technical Point of Contact
Name:	Jeff Woods Supervisory Hydrologist	Name:	Gregory Lubeck Engineering Section Manager
Address:	5957 Lakeside Blvd. Indianapolis, IN 46278	Address:	101 E. Vine St. 4th Floor Lexington, KY 40507
Telephone:	(317) 600-2762	Telephone:	(859) 258-3446
Fax: Email:	(317) 290-3313 jwoods@usgs.gov	Fax: Email:	(859) 425-2461 glubeck@lexingtonky.gov
Zman.]*************************************		g.comg.comy.gov
	USGS Billing Point of Contact		Customer Billing Point of Contact
Name:	Damon Williams	Name:	Gregory Lubeck
Address:	Budget Analyst 5957 Lakeside Blvd.	Address:	Engineering Section Manager 101 E. Vine St. 4th Floor
74441033.	Indianapolis, IN 46278	Addices.	Lexington, KY 40507
Telephone:	(317) 600-2774	Telephone:	(859) 258-3446
Fax:	(317) 290-3313	Fax:	(859) 425-2461
Email:	dlwilliams@usgs.gov	Email:	glubeck@lexingtonky.gov
	U.S. Geological Survey United States Department of Interior	Le	exington-Fayette Urban County
	Signature		Signatures
MICHAEL			
ByGRIFFIN	Date: 04/25/2019	Ву	Date:
Name: Micha	nel Griffin	Name:	
Title: Directo	r	Title:	
		Ву	Date:
		Name:	
		Title:	
		Ву	Date:
		Name:	
		Title:	

Lexington-Fayette Urban County

Attachment for 19NFJFA00000129 7/1/2019 to 6/30/2020

SURFACE WATER

	OTHER FUNDS		USGS FUNDS	DIFF FACTOR	NO. UNITS	CODE	DESCRIPTION	SITE NUMBER
				N,KY	LEXINGTO	SBURG RD NR	E HICKMAN CR TRIB AT CHILES	03284525
		\$8,150	\$5,200	1	1	QCONT	Full Range Streamflow Station	
\$13,350				SW Total:				
				l, KY	T HICKMAN	OR RD NR EAS	EAST HICKMAN CR AT TATES C	03284533
		\$8,150	\$5,200	1	1	QCONT	Full Range Streamflow Station	
\$13,350				SW Total:				
				i, KY	LEXINGTO	ANS PARK NR I	WEST HICKMAN CR AT VETERA	03284552
		\$8,150	\$5,200	1	1	QCONT	Full Range Streamflow Station	
\$13,350				SW Total:				
				1	NGTON, K	ER RD NR LEXI	N ELKHORN CR AT WINCHESTE	03287590
		\$8,150	\$5,200	1	1	QCONT	Full Range Streamflow Station	
\$13,350				SW Total:				
				KY	ONTROSE	TION RD AT M	N ELKHORN CR AT BRYAN STAT	03287600
		\$8,150	\$5,200	1	1	QCONT	Full Range Streamflow Station	
\$13,350				SW Total:				
				Ϋ́	(INGTON, I	N BLVD NR LEX	CANE RUN CREEK AT CITATION	03288180
		\$8,150	\$5,200	1	1	QCONT	Full Range Streamflow Station	
\$13,350				SW Total:				
				N, KY	LEXINGTO	VTOWN PK NR	TRIB TO CANE RUN CR AT NEW	03288190
		\$8,150	\$5,200	1	1	QCONT	Full Range Streamflow Station	
\$13,350				SW Total:				
					Υ	ORT SPRING, K	SOUTH ELKHORN CREEK AT FO	03289000
		\$8,150	\$5,200	1	1	QCONT	Full Range Streamflow Station	
\$13,350				SW Total:				
				Y	INGTON, K	T PIKE AT LEX	WOLF RUN AT OLD FRANKFORT	03289193
		\$8,150	\$5,200	1	. 1	QCONT	Full Range Streamflow Station	
\$13,350				SW Total:				
				N, KY	ARNALLTO	ON ROAD AT YA	TOWN BRANCH AT YARNALLTO	03289200
		\$8,150	\$5,200	1	1	QCONT	Full Range Streamflow Station	
\$13,350				SW Total:				
\$133,500		\$81,500	\$52,000	Grand Total:	SW			

CLIMATE

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. OTHER CASH FUNDS	TOTAL COST
03284525	E HICKMAN CR TRIB AT CH		R LEXING	TON,KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03284533	EAST HICKMAN CR AT TAT			AN, KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03284552	WEST HICKMAN CR AT VET	TERANS PARK NI	R LEXINGT	ON, KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03287590	N ELKHORN CR AT WINCH			KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03287600	N ELKHORN CR AT BRYAN			E, KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03288180	CANE RUN CREEK AT CITA	TION BLVD NR L	EXINGTON	l, KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03289000	SOUTH ELKHORN CREEK A	T FORT SPRING	, KY				
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
03289200	TOWN BRANCH AT YARNAL	LTON ROAD AT	YARNALLI	ON, KY			
	Precipitation, Continuous	PRECIPCONT	1	CLIM Total:		\$800	\$800
380249084295001	DOWNTOWN LEX. @ LFUC	3 BLDG ON E MA	IN ST @ L	EX., KY			
	Precipitation, Continuous	PRECIPCONT	1	. 1 CLIM Total:	\$2,500	\$4,000	\$6,500
			CLIM	Grand Total:	\$2,500	\$10,400	\$12,900

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS		OTHER FUNDS	T
03284533	EAST HICKMAN CR AT TATE	S CR RD NR EAS	T HICKMAI	N, KY				
	Water Quality, Continuous	WQCONT	1	1		\$26,550		
	<u> </u>			. WQ Total:				\$2
			147	Q Grand Total:		\$26.550		\$2

	SUMMARY FOR 19	NFJFA0000012	9		
	Lexington-Fayette	e Urban County	,		
ТҮРЕ		USGS FUNDS	CUST. CASH	OTHER FUNDS	COS
CUREAGE WATER (CW)		050.000	404 500		A400 F0
SURFACE WATER (SW)		\$52,000	\$81,500		\$133,50
CLIMATE (CLIM)		\$2,500	\$10,400		\$12,90
(WQ)	4		\$26,550		\$26,55
	GRAND TOTAL	\$54,500 .	\$118,450		\$172,95