

**City of Fayetteville Staff Review Form**

**2018-0633**

**Legistar File ID**

**12/18/2018**

City Council Meeting Date - Agenda Item Only  
N/A for Non-Agenda Item

Tim Nyander

11/20/2018

WASTEWATER TREATMENT (730)

**Submitted By**

**Submitted Date**

**Division / Department**

**Action Recommendation:**

Staff recommends a resolution to approve Amendment No. 10 to the agreement with CH2M Hill Engineers, Inc. beginning January 1, 2019 and ending December 31, 2019 in the amount of \$6,981,332.00.

**Budget Impact:**

5400.730.XXXX-5328.00

Water and Sewer

Account Number

Fund

48048.XXX

OMI Expenses

Project Number

Project Title

**Budgeted Item?** Yes

Current Budget \$ 8,500,000.00

Funds Obligated \$ -

Current Balance **\$ 8,500,000.00**

**Does item have a cost?** Yes

Item Cost \$ 6,981,332.00

**Budget Adjustment Attached?** No

Budget Adjustment \$ -

Remaining Budget **\$ 1,518,668.00**

V20180321

**Purchase Order Number:** \_\_\_\_\_

**Previous Ordinance or Resolution #** 263-17

**Change Order Number:** \_\_\_\_\_

**Approval Date:** \_\_\_\_\_

**Original Contract Number:** \_\_\_\_\_

**Comments:**



**MEETING OF DECEMBER 18, 2018**

**TO:** Mayor and City Council

**THRU:** Don Marr, Chief of Staff  
Water & Sewer Committee

**FROM:** Tim Nyander, Utilities Director

**DATE:** November 20, 2018

**SUBJECT:** **Approval of Amendment No. 10 to the Agreement with CH2M HILL Engineers/Jacobs**

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**RECOMMENDATION:**

City Administration recommends approval of Amendment No. 10 to the Agreement with CH2M HILL Engineers, Inc./Jacobs beginning January 1, 2019 and ending December 31, 2019, in the amount of \$6,981,332.00.

**BACKGROUND:**

When the original Noland WWTP upgrade was completed in 1987, the City contracted with OMI (now Jacobs) for wastewater treatment services. In FY 2019, the scope of services provided by CH2M HILL/Jacobs include: (1) operate and maintain the Noland and West Side Wastewater Treatment Plants (WWTP); (2) operate and/or maintain 38 wastewater pump station sites; (3) administer the City's NPDES discharge, air, stormwater, and other permits; (4) manage the City's biosolids disposal program; (5) manage the City's industrial pretreatment program; (6) support the SCADA (supervisory control and data acquisition system) network that monitor water and wastewater facilities; (7) pursue operation economies, efficiencies, and permit compliance; and (8) refurbish one of 10 sand filters.

In December 2009, the Fayetteville City Council passed Resolution No. 265-09 which approved a proposed five-year contract subject to and contingent upon yearly budget approval by the City of Fayetteville, with two successive five-year options to renew. Amendment No. 10 represents the fifth and final year of the first five-year renewal. To encourage cost saving operations, the contract contains an incentive provision whereby budget savings are distributed 87.5% to the City and 12.5% to CH2M HILL/Jacobs.

**DISCUSSION:**

For 2019, the electricity costs have been removed from the contract which is why there is a decrease in contract price from the 2018 contract amount. The electricity expenses will be paid directly by the City.

**BUDGET/STAFF IMPACT:**

Funds are available within the overall Utility budget.

**Attachments:**

Amendment No. 10

**AMENDMENT NO. 10 TO AGREEMENT**  
**For**  
**OPERATIONS, MAINTENANCE AND MANAGEMENT SERVICES**  
**Between**  
**CITY OF FAYETTEVILLE, ARKANSAS**  
**And**  
**CH2M HILL ENGINEERS, INC.**

THIS AMENDMENT NO. 10 to the Agreement for Operations, Maintenance and Management Services between the City of Fayetteville, Arkansas, Water Resource Recovery Facility and its pertinent systems dated December 15, 2009 (the “Agreement”), is made effective on the 1<sup>st</sup> day of January, 2019, by and between City of Fayetteville, Arkansas, acting by and through its Mayor (hereinafter “City of Fayetteville”) and CH2M HILL Engineers, Inc., (hereinafter “CH2M”)

**NOW THEREFORE**, the City and CH2M hereby amend the Agreement as follows:

1. Appendix A is attached for informational purposes only.
2. Appendix B is attached for informational purposes only.
3. Appendix C is hereby deleted in its entirety and replaced with the attached Appendix C
4. Appendix D is hereby deleted in its entirety and replaced with the attached Appendix D.
5. Appendix E is hereby deleted in its entirety and replaced with the attached Appendix E.
6. Appendix F is hereby deleted in its entirety and replaced with the attached Appendix F.
7. Appendix G is hereby deleted in its entirety and replaced with the attached Appendix G.
8. Appendix H is hereby deleted in its entirety and replaced with the attached Appendix H.
9. Appendix I is attached for informational purposes only.


This Amendment No. 10, together with prior Amendments and the Agreement, constitutes the entire agreement between the Parties and supersedes all prior oral and written understandings with respect to the subject matter set forth herein. Unless specifically stated all other terms and conditions of the Agreement shall remain in full force and effect. Neither this Amendment nor the Agreement may be modified except in writing signed by an authorized representative of the Parties.

The Parties, intending to be legally bound, indicate their approval of the Amendment by their signatures below.

Officer have made and executed this Agreement as of the day and year first above written.

CH2M HILL ENGINEERS, INC.

CITY OF FAYETTEVILLE, ARKANSAS

By:   
Name: Steven Carpenter  
Title: Regional Business Manager  
Date: 11/20/18

By: \_\_\_\_\_  
Name: Lioneld Jordan, Mayor  
Title: Mayor  
Date: \_\_\_\_\_

ATTEST:

By: \_\_\_\_\_  
Name: Sondra Smith  
Title: City Clerk  
Date: \_\_\_\_\_

**Appendix A**

**LIST OF APPENDICES**

Appendix A – List of Appendices

Appendix B – Definitions

Appendix C – Scope of Services

Appendix D – Compensation for Services

Appendix E – Location of Project

Appendix F – Environmental Permits and Project Characteristics

Appendix G – Industrial Waste Discharges and Monitoring Program

Appendix H – Vehicle and Mobile Equipment Description (Rolling Stock)

Appendix I – Base Fee Adjustment

## Appendix B

### DEFINITIONS

- B.1 “Adequate Nutrients” means plant influent nitrogen, phosphorus and iron contents proportional to BOD<sub>5</sub> in the ratio of five (5) parts nitrogen, one (1) part phosphorus, and one half (0.5) part iron for each one hundred (100) parts BOD<sub>5</sub>.
- B.2 “Base Fee” means all costs within the scope of the contract, on an annual basis, including direct costs, labor, utilities (other than electricity), and other allocated costs.
- B.3 “Biologically Toxic Substances” means any substance or combination of substances contained in the plant influent in sufficiently high concentrations so as to interfere with the biological processes necessary for the removal of the organic and chemical constituents of the wastewater required to meet the discharge requirements of City of Fayetteville’s NPDES permit. Biologically toxic substances include but are not limited to heavy metals, phenols, cyanides, pesticides, and herbicides.
- B.4 “Capital Expenditures” means any expenditures for (1) the purchase of new equipment or facility items that cost more than Ten Thousand Dollars (\$10,000); or (2) major repairs which significantly extend equipment or facility service life and cost more than Ten Thousand Dollars (\$10,000); or (3) expenditures that are planned, non-routine and budgeted by City of Fayetteville.
- B.5 “Cost” means the total of all costs determined on an accrual basis in accordance with generally accepted accounting principles including but not limited to direct labor, insurance, labor overhead, chemicals, materials, supplies, utilities (other than electricity), equipment, maintenance, repair, and outside services.
- B.6 “Electrical Evaluation” will be limited to amperage draws, winding resistance measurements, thermographic evaluations, and current and voltage imbalance.
- B.7 “Fixed Asset” means any tangible property that has a value of Five Thousand Dollars (\$5,000) or more and is depreciable. This excludes the repair/replacement parts that are components of a greater fixed asset.
- B.8 “Maintenance” means the cost of those routine and/or repetitive activities required or recommended by the equipment or facility manufacturer or CH2M to maximize the service life of the equipment, vehicles, and facilities as listed in Appendix E.
- B.9 “Out of scope” services will include “capital expenditures” (definition B.4 of this Appendix), added or modified regulatory requirements (that are not contained in the applicable permits), changes to improve efficiency and/or generate income, or other services not described in the contract and requested by the City of Fayetteville. These services shall be performed as stated in Appendix C. Should “Out of Scope Services” become a permanent and ongoing requirement, CH2M will submit a change of scope request within a reasonable amount of time in accordance with Paragraph 1.6 of the Agreement.
- B.10 “Project” means all equipment, vehicles, grounds and facilities described in Appendix E and where appropriate, the management, operations and maintenance of such.

B.11 “Repairs” means the cost of those non-routine/non-repetitive activities required for operational continuity, safety, and performance generally due to failure or to avert a failure of the equipment, sewer, vehicle, or facility or some component thereof; cost less than ten thousand dollars (\$10,000); and are not included in definition B.4 of this Appendix. “Repairs” exclude cost of repair parts caused by storm damage to the supervisory control and data acquisition (SCADA) system.

## Appendix C

### **SCOPE OF SERVICES**

#### **C.1 SCOPE OF SERVICES – CH2M**

- C.1.1 Perform professional services in connection with the Project as hereinafter stated.
- C.1.2 Operate and maintain all facilities over a 24-hour per day, 7-day per week period, under full service contract operations and maintenance. Operations may be performed with on-site staff and/or remote monitoring/on-call services for all or portions of this time.
- C.1.3 Within the design capacity and capability of the Project, manage, operate, and maintain the Project so that effluent discharged from the Project meets the requirements specified in Appendix F.
- C.1.4 Operate and maintain the present Industrial Pretreatment Program including all monitoring, inspections, sampling, testing, reporting, and record keeping as described in Appendix G. Results of all industrial sampling and testing shall be made available to City of Fayetteville as requested.
- C.1.5 Provide all Maintenance for the Project. Document as required to continue existing maintenance program and to provide City of Fayetteville requested reporting, including but not limited to updated preventative maintenance schedules. City of Fayetteville shall have full access to preventative maintenance records.
- C.1.6 Pay all costs incurred within the scope of normal Project operations as defined in this Agreement.
- C.1.7 Staff the Project with a minimum of three (3) Arkansas Class IV Wastewater licensed operators.
- C.1.8 Prepare all NPDES permit and other pertinent regulatory reports, letters, or other correspondence, and submit these to City of Fayetteville for signature and approval. Transmittal to appropriate agencies shall be done by CH2M, except for electronic reporting via NetDMR. Any fines levied because of late reports as a result of CH2M failure to complete and allow sufficient time for City of Fayetteville's signature and transmittal shall be paid by CH2M. Submittal to the City of Fayetteville by the 20<sup>th</sup> of the month following the reporting period shall be considered timely.
- C.1.9 Provide for proper disposal of screening, scum, grit, and biosolids in compliance with permit and regulatory requirements, as long as a suitable location for such disposal is reasonably available. Should regulations and/or disposal/application options significantly change, projected costs will be revised by mutual agreement.
- C.1.10 Provide all manufacturers' warranties on new equipment purchased by the City of Fayetteville and assist the City of Fayetteville in enforcing existing equipment warranties and guarantees.
- C.1.11 Be responsible for all laboratory testing and sampling presently required by the NPDES permits, stormwater permits, "no discharge" permits, and other related requirements.
- C.1.12 Provide an inventory of vehicles and equipment (rolling stock) that are being used at the Project at the beginning of each contract year.



- C.1.13 Provide twenty four (24) hour per day access to Project for City of Fayetteville's personnel. Visits may be made at any time by any of City of Fayetteville's employees so designated by City of Fayetteville's representative. Keys for Project shall be provided to City of Fayetteville by CH2M. All visitors to the Project shall comply with CH2M's operating and safety procedures.
- C.1.14 Provide for the maintenance of existing City of Fayetteville rolling stock such as dump trucks, tractors, and trailers that are necessary for the operations and maintenance of the facilities.
- C.1.15 Provide training for personnel in areas of operation, maintenance, safety, supervisory skills, laboratory, and energy management. Continue the current project safety program with updates as necessary.
- C.1.16 Provide computerized maintenance, process control, and laboratory management systems.
- C.1.17 Comply with the requirements of City of Fayetteville regarding affirmative action provisions for minority hiring.
- C.1.18 Provide City of Fayetteville with a full accounting of all expenditures at intervals and in sufficient detail as may be determined by City of Fayetteville and assist City of Fayetteville in preparation of annual operating budgets. City of Fayetteville shall be allowed to conduct or have conducted audits of all accounting records related to the direct contract operations of this Agreement at times to be determined by City of Fayetteville.
- C.1.19 Provide City of Fayetteville with full documentation that preventative maintenance is being performed on all City of Fayetteville equipment in accordance with manufacturer's recommendations at intervals and in sufficient detail as may be determined by City of Fayetteville. Maintenance program shall include documentation of corrective and preventive maintenance and a spare parts inventory.
- C.1.20 Provide for repairs as described in the Appendix B.11.
- C.1.21 Maintain the SCADA system as described in Appendix E, to include ongoing updates and upgrades of the software and hardware to ensure operational continuity and in accordance with initiatives as agreed upon by the City of Fayetteville and CH2M.
- C.1.22 Verify the capacity and efficiency of each sewer lift station once per calendar year.
- C.1.23 Provide recommendations for Capital Improvements Program (CIP) with a schedule for improvements and expenditures as requested by the City of Fayetteville. A five (5) year schedule will be presented for all capital improvements and ten (10) year projections will be made for major improvements. These recommendations will be based on requirements determined from facility operations and does not include detailed engineering studies. In addition, CH2M will prepare the required forms and documentation required during budget and capital improvements budget preparation time each year. Except for the improvements requiring an engineering study, the following will be included for each project:
- Improvement needed
  - Justification of improvements
  - Cost of improvements
  - Any projected increase or decrease in O&M costs created by the CIP
  - Proposed expenditure schedule

- Proposed capital recovery schedule
  - Impact of early termination
- C.1.24 Perform other services that are related to but not part of the Scope of Services upon written notification by City of Fayetteville. Such services will be invoiced to City of Fayetteville at CH2M’s cost plus eighteen percent (18%).
- C.1.25 At the direction of the City of Fayetteville, CH2M is authorized to act in emergency situations outside this Scope of Services, at CH2M’s discretion. The costs related to emergency services are not included in the compensation set forth in this Agreement. CH2M will notify City of Fayetteville as soon as reasonably possible, and shall be compensated by City of Fayetteville for any such emergency work at CH2M’s costs for the emergency work plus twenty-two percent (22%).
- C.1.26 Provide City of Fayetteville with oral and written reports as requested.
- C.1.27 Operate and maintain all existing wastewater lift station facilities including buildings, grounds, backup power generators, and certain other appurtenances within the site fenced area. However, maintenance of inlet and outlet pipe works shall terminate at the wall of lift station. Should the City of Fayetteville add in excess of three (3) additional lift stations, from the prior contract year’s number of sites, a corresponding change of scope will be negotiated.
- C.1.28 Conduct annual electrical evaluations of electrical units of 25 horsepower or more which operate at supply voltages of 480V or less to ground.
- C.1.29 CH2M will comply with present federal, state, and local laws in performing their obligations under the terms of this Agreement. CH2M and City of Fayetteville will work cooperatively regarding the application and impact of potential changes in law, including the potential cost impact on the scope of work, and mutually revise this Agreement as applicable.
- C.1.30 Coordinate and schedule the use of training rooms at both wastewater treatment facilities.
- C.1.31 Conduct community outreach and education activities including cooperative efforts with the University of Arkansas as appropriate.
- C.1.32 Maintain compliance with other existing environmental permits as described in Appendix F.
- C.1.33 Maintain the industrial surcharge program and provide for monitoring and control of septage deliveries, as provided for in the City of Fayetteville’s Code of Ordinances, Discharge and Pretreatment Regulations.
- C.1.34 The parties contemplate that minor design/engineering services may be provided by CH2M from time to time. The scope and compensation for such services shall be mutually negotiated by the parties prior to the commencement of work.
- C.1.35 Operate and maintain the ongoing nutrient removal efforts at the City of Fayetteville’s Biosolids Management Site, including managing harvesting and marketing the hay produced on the site. Biosolids Management Site maintenance shall also include compliance with the current “no discharge” permit.
- C.1.36 Operate and maintain existing onsite power generators at all existing sites, including maintaining compliance with off-peak power rate structure monitoring and generation requirements.

- C.1.37 Operate and maintain the biosolids drying operation, which includes 6 solar houses and a thermal biosolids dryer.
- C.1.38 Coordinate the marketing and/or disposal of the dried biosolids produced from the drying operations as appropriate.
- C.1.39 Coordinate the application of alum sludge from Beaver Water District and invoicing for the services as appropriate.
- C.1.40 Check the condition of and replace the odor canisters (as listed in Appendix E) that are part of the air release valves in the collection system, as needed. The mechanical condition of these valves will be maintained by the Fayetteville Water and Sewer Division.
- C.1.41 Provide site monitoring and City approved property maintenance activities as directed for Woolsey Wet Prairie adjacent to the West Side Wastewater Resource Recovery Facility to assure that the site continues to meet ecological performance standards.
- C.1.42 Provide monitoring to the White River streambank restoration site near the Biosolids Management Site and near the Noland treatment plant, as contract budget allows.
- C.1.43 Reserved
- C.1.44 Reserved
- C.1.45 Provide incidental small scale support as directed to various not-for-profit groups on issues important to the City of Fayetteville.

**C.2 SCOPE OF SERVICES – CITY OF FAYETTEVILLE**

- C.2.1 Provide for all Capital Expenditures except for the Projects that City of Fayetteville may authorize CH2M to implement subject to mutually agreeable terms and conditions of repayment.
- C.2.2 Maintain all existing and necessary Project warranties, guarantees, easements, permits, and licenses that have been granted to City of Fayetteville with the proviso that CH2M remains primarily responsible to ensure that the wastewater plants are efficiently, properly and professionally operated so that they will not suffer a loss of permits or licenses.
- C.2.3 Pay all property or other taxes or franchise fees associated with the Project. This excludes taxes to be borne by CH2M for equipment owned by CH2M.
- C.2.4 May provide CH2M within a reasonable time after request any piece of City of Fayetteville’s heavy equipment, subject to availability, so that CH2M may fulfill its obligations under this Agreement in the most cost-effective manner.
- C.2.5 Provide all licenses for vehicles used in connection with the Project.
- C.2.6 Provide for CH2M’s use all vehicles and equipment presently in use at the Project, including the vehicles described in Appendix H.
- C.2.7 Pay for all wastewater lift station utilities.

C.2.8 Pay for all gasoline, diesel, and propane for backup power generators and all rolling stock provided by City of Fayetteville.

C.2.9 Pay for all regulatory fees

C.2.10 Pay electricity for all facilities.

## Appendix D

### COMPENSATION FOR SERVICES

- D.1 CH2M estimates that Base Fee for services, on an annual basis, under this Agreement for 2019 shall be Six Million, Nine Hundred Eighty One Thousand, and three Hundred Thirty Two Dollars (**\$6,981,332**). Details of said cost are shown in D.4 below. Thereafter, the Base Fee shall be negotiated each year. Should City of Fayetteville and CH2M fail to agree, the Base Fee will be determined by the application of the Base Fee adjustment formula shown in Appendix I. Upon each contract year renegotiation, CH2M shall continue to invoice City of Fayetteville at the previous amount until the new contract year price is agreed upon. Upon written notice, agreement between the parties as to the new contract year Base Fee, CH2M shall issue an invoice retroactively adjusting the previous Base Fee amount. Should the actual expenditures exceed the total estimated annual expenditures by more than Twenty Thousand Dollars (\$20,000), in any year of this Agreement, specific approval will be obtained from the City of Fayetteville prior to CH2M incurring additional costs.
- D.2 An administrative fee of fifteen percent (15%) will be added to personnel services, and ten percent (10%) to all other direct costs. An annual fixed management fee of One Hundred Twenty-one Thousand, Six Hundred Ninety-Eight Dollars (**\$121,698**) shall be billed in equal monthly installments and adjusted annually in relation to the Base Fee.
- D.3 In order to provide an incentive for CH2M to operate in a manner that will result in actual costs below estimated cost, City of Fayetteville will pay CH2M an additional fee when actual costs are below estimated cost. Said fee will be twelve and one half percent (12.5%) of the amount of actual cost are below estimated cost.
- D.4 For occasions when the City equipment may be used for purposes outside the scope of this contract and not for the benefit of the City, CH2M agrees to reimburse the City of Fayetteville for equipment usage. The rate of reimbursement is calculated as equipment capital cost per hour use plus five percent (5%). The City of Fayetteville agrees to provide certificates of insurance evidencing proof of insurance for any equipment or vehicles used by CH2M.
- D.5 **Cost Detail** - The annualized estimated costs for calendar year 2019 are listed in Table D-1.

**Table D-1, Cost Detail**

	WRRF Management Program	WRRF East Side Operations Program	WRRF West Side Operations Program	WRRF Lab & IPP Program	WRRF Lift Station Maintenance Program	WRRF Biosolids Management Program	Total Cost 2019
Direct Labor	\$654,656	\$823,906	\$395,840	\$310,168	\$243,969	\$693,782	\$3,122,322
Labor Markup, 15%	\$98,198	\$123,586	\$59,376	\$46,525	\$36,595	\$104,067	\$468,348
Direct Expense	\$237,823	\$1,326,497	\$329,881	\$154,712	\$304,200	\$618,672	\$2,971,786
Expense Markup, 10%	\$23,782	\$132,650	\$32,988	\$15,471	\$30,420	\$61,867	\$297,179
Fixed Fee	\$121,698						\$121,698
Totals	\$1,136,158	\$2,406,639	\$818,085	\$526,877	\$615,184	\$1,478,389	\$6,981,332

## Appendix E

### LOCATION OF PROJECT

E.1 CH2M agrees to provide the services necessary for the management, operation and maintenance of the following:

E.1.1 All equipment, vehicles, grounds and facilities now existing within the present property boundaries of or being used to operate the City of Fayetteville's Noland Water Resource Recovery Facility located at:

1400 North Fox Hunter Road  
Fayetteville, Arkansas 72701

E.1.2 All equipment, vehicles, grounds and facilities now existing within the present property boundaries of or being used to operate the City of Fayetteville's West Side Water Resource Recovery Facility located at:

15 South Broyles Avenue  
Fayetteville, Arkansas 72704

E.1.3 All equipment, grounds, and facilities now existing within the present fenced boundaries of wastewater lift stations described as follows:

<b>SCADA NODE</b>	<b>LOCATION</b>	<b>Generator</b>	<b>Site Maintenance Only</b>
WW1	978 E Zion Rd (Lowe's – Zion PS)	YES	
WW2	3500 E Mission Blvd (Timbercrest PS)	YES	
WW4	691 W Poplar St (Poplar PS - ABANDONED)		YES
WW5	3896 N Gregg Ave (Gregg Ave PS)	YES	
WW6	3021 N Old Wire Rd (Old Wire PS)	NO	
WW7	2065 N Sunshine Rd (Hamestring PS)	YES	
WW8	729 W North Street (North Street PS –ABANDONED)		YES
WW9	1236 N Porter Rd (Porter Rd PS)		YES
WW10	716 N Futrall Dr (Futrall Dr PS)	YES	
WW11	4412 W 6th Street (Farmington East PS –ABANDONED)		YES
WW12	571 N Double Springs Road (Farmington West PS)	YES	
WW13	878 S Dead Horse Mountain Rd (Stonebridge PS)	YES	
WW14	1820 S Armstrong Ave (Industrial Park PS)	YES	
WW16	518 W Ernest Lancaster Dr (Airport North PS)	YES	
WW18	210 N Sandy (Greenland PS)	NO	
WW19	5716 E Norman Murphy Rd (Mally Wagon PS)	YES	
WW20	3212 N Highway 112 – (Trucker's Drive PS - ABANDONED)		YES
WW22	630 N Double Springs Rd (Owl Creek PS)	YES	
WW23	440 E Fairway Ln (Masters PS)	NO	

<b>SCADA NODE</b>	<b>LOCATION</b>	<b>Generator</b>	<b>Site Maintenance Only</b>
WW24	265 W Ernest Lancaster Dr (Airport East PS)	YES	
WW25	551 W Aster Ave (Willow West PS - Farmington)	YES	
WW27	1031 River Meadows Dr (Stonebridge Meadow Phase I PS)	YES	
WW28	1603 Plantation Ave (Heritage Village PS)	YES	
WW29	390 N Cato Springs Rd (Bohannon PS - Greenland)	NO	
WW32	478 N Durango Place (Silverthorne PS)	YES	
WW33	4644 N Crossover Rd (Stonewood PS - Copper Creek)	YES	
WW34	4572 S School Ave (Airport South PS)	YES	
WW35	3083 W MLK Blvd (Lowe's – 6th St PS)	YES	
WW36	1642 N Willowbrook Dr (Skyler Place PS)	YES	
WW37	3848 W Edgewater Dr (Clabber Creek PS - ABANDONED)		YES
WW38	3710 E Zion Rd (Copper Creek Phase II PS)	YES	
WW39	2392 N Kenswick Ave (Crofton Manner PS)	YES	
WW40	1811 S Cherry Hills Dr (Stone Bridge Meadow Phase II PS)	YES	
WW41	1608 S Springlake Dr (Crescent Lake PS)	YES	
WW44	6061 Dot Tipton Rd (Legacy Pointe Phase 4 PS)	NO	
WW45	4451 N Waterside Ct (Timberlake Office Park PS)	YES	
WW46	3788 E Spyglass Hill Dr (Stonebridge Meadows Phase V PS)	YES	
WW47	3601 E Albright Rd (Embry Acres PS)	YES	
WW48	2435 S Dead Horse Mountain Rd (McDonald PS)	YES	
WW49	3393 E Goff Farm Rd (Meadows PS)	YES	
WW52	485 N Broyles Ave (Broyles Ave PS)	YES	
WW53	1396 Zion Rd (Office Park PS)	YES	

E.1.4 All equipment, grounds, and facilities now existing within the present property boundaries of or being used to operate the City of Fayetteville's Biosolids Management Site located east of the Noland Water Resource Recovery Facility across the White River.

E.1.5 All equipment, grounds, and facilities associated with or being used to complete routine O&M activities for the City of Fayetteville's Mitigated Wetlands Site now existing within the present property boundaries located north of the West Side Water Resource Recovery Facility. These services include execution of seasonal Adaptive Management strategy including recommended herbicide applications, site maintenance & monitoring, monthly reporting, prescribed burn site preparations, land management BMP's to adjacent City of Fayetteville properties. Services exclude permit compliance over-sight, permit reporting and prescribed burn scheduling & execution.



E.1.6 The potable water SCADA system at the following locations:

<b>SCADA NODE</b>	<b>LOCATION</b>	<b>DESCRIPTION</b>
W1	215 W 24th St (South Mountain)	Pump Station
W2	844 N Crossover Rd (Hyland Park)	Pump Station
W4	1016 E Ash St	Pump Station
W5	707 E Rogers Dr	Pump Station
W6	456 E Baxter Ln	Ground Storage Tank (2 each)
W7	707 E Rogers Dr	Ground Storage Tank (2 each)
W8	133 N Sang Ave	Elevated Storage Tank
W9	1170 E South Skyline Dr	Elevated Storage Tank (Mt. Sequoyah)
W10	1044 E Township Rd	Elevated Storage Tank
W11	3280 W Judge Cummins Rd	Ground Storage Tank (2 ea) (Kessler Mountain)
W12	7001 E Mission (Highway 45 Valve	Pressure-Reducing Valve Station)
W13	1589 Fire Tower Road (Goshen)	Pump Station and Ground Storage Tank
W14	17301 Lake Sequoyah Rd (Round Mtn)	Pump Station
W15	14360 Round Mt Comm Church Rd	Stand Pipe County Rd #55 (Round Mountain)
W16	22032 Fire Tower Rd County Rd 4343	Stand Pipe (Benson Mountain)
W17	3265 N Gulley Rd	Elevated Storage Tank
W18	3788 N Gulley Rd	Pump Station
W19	3370 S Coach Rd	Pump Station
W20	2098 Woodcliff Rd (Springdale)	Surge Tank
W21	2210 N Old Wire Rd	Valve
W22	2800 N Old Missouri Rd	Flow Meter
W23	3385 N Par Ct	Valve
W24	3023 E Joyce Blvd	Valve
W25	2567 E Robinson (Springdale)	Valve
W27	17385 Blue Springs Rd (Goshen)	Pump Station
W28	17970 Lake Sequoyah Rd	Pump Station
W29	Beaver Water District	SCADA Interface
W30	1195 N. Canterbury Rd (Canterbury Tank)	Elevated Storage Tank
W31	2903 E. Flagstone Cir (Stonemountain)	Pump Station
WSOPC	2435 S Industrial Dr	Water & Sewer Ops Center
MTROB	12141 Ed Edwards Rd	Mt. Robinson Tower Site

E.1.6 Installation of the necessary Remote Terminal Units (RTUs) and equipment to acquire flow information from the collection system via SCADA. Flow monitoring devices (up to 17 remote locations) are scheduled to be installed by the City's Water and Sewer Division.

E.1.7 Provision and maintenance of RTUs at the following sites located in the City of Elkins, Arkansas:

<b>SCADA NODE</b>	<b>LOCATION</b>	<b>DESCRIPTION</b>
EW1		Lift Station
EW1		Ground Storage Tank

E.1.8 Maintenance of the odor control system associated with the following lift stations:

<b>LOCATION</b>	<b># OF CANISTERS</b>
LS #6 - 3021 N Old Wire Rd (Old Wire)	5
LS #7 - 2065 N Sunshine Rd (Hamestring)	7
LS #12 - 571 N Double Springs Road (Farmington West)	8
LS #22 - 630 N Double Springs Rd (Owl Creek)	2
LS #52 - 485 N Broyles Ave (Broyles Ave)	2

**Appendix F**

**ENVIRONMENTAL PERMITS AND PROJECT CHARACTERISTICS**

F.1 CH2M will operate Project so that effluent will meet the requirement of NPDES permit No. AR0020010 and AR0050288. CH2M shall be responsible for meeting the effluent quality requirements of City of Fayetteville’s NPDES current permits unless one or more of the following occurs:

- The Project influent does not contain Adequate Nutrients to support operation of Project biological processes;
- Contains Biologically Toxic Substances which cannot be removed by the existing process and facilities;

The influent flow, influent BOD<sub>5</sub>, and/or suspended solids exceeds the Project design parameters which are:

	Noland WRRF		West Side WRRF	
	Annual Average	Maximum Monthly Average	Annual Average	Maximum Monthly Average
Flow (MGD)	12.6	18.8	10.0	17.8
BOD (lbs/d)	29,666	44,264	14,595	18,853
TSS (lbs/d)	23,198	34,613	14,595	18,853

F.2 In the event any one of the Project influent characteristics, suspended solids, BOD<sub>5</sub>, or flow, exceeds the parameters listed above, CH2M shall return the plant effluent to the characteristics required by the NPDES permit in accordance with the following schedule after Project influent characteristics return to within design parameters.

Characteristics Exceeding Listed Parameters By	Recovery Period Maximum
10% or Less	5 days
> 10% but < 20%	10 days
20% and Above	30 days

Notwithstanding the above schedule if the failure to meet effluent quality limitations is caused by the presence of Biologically Toxic Substances or the lack of Adequate Nutrients in the influent, then CH2M will have a thirty (30) day recovery period after the influent is free from said substances or contains Adequate Nutrients.

F.3 CH2M shall not be responsible for fines or legal action as a result of discharge violations within the period that influent exceeds design parameters, does not contain Adequate Nutrients, contains Biologically Toxic Substances (that exceed process inhibiting levels or creates concentrations exceeding application or discharge limitations), and the subsequent recovery period.

F.5 The estimate Costs for services under this Agreement are based upon the following Project

characteristics:

Annual Average	Noland WRRF	West Side WRRF
Flow (MGD)	6.15	7.06
BOD (lbs/d)	15,559	12,819
TSS (lbs/d)	10,192	14,057

The above characteristics are the actual twelve (12) months average July through June prior to the date services are first provided under this Agreement. Any change of 10 percent (10%) or more in any of these characteristics, based upon a twelve (12) month moving average, may constitute a change in scope.

F.6 The current applicable environmental permits are as follows:

Permit	AFIN No.	Permit No.	Expiration Date
NPDES - Noland	72-00781	AR0020010	12/31/2022
NPDES - West Side	72-01033	AR0050288	11/30/10
No Discharge Permit – Biosolids Management Site & Noland	72-00829	4748-WR-3	07/31/2020
Air - Hamestring	72-01873	2179-A	N/A
Air - West Side	72-01033	2178-A	N/A
Stormwater No Exposure Certification (NEC) - Noland	72-00781	Tracking No. ARR00C377	06/30/19
Stormwater No Exposure Certification (NEC) - West Side	72-01033	Tracking No. ARR000390	06/30/19

**Appendix G**

**INDUSTRIAL WASTE DISCHARGES AND MONITORING PROGRAM**

- G.1 CH2M shall: Administer the Industrial Pretreatment Program in accordance with 40 CFR 403. Administration shall include:
  - G.1.1 Maintain the industrial waste sampling and analysis program for pretreatment and surcharge, as described in G.3.
  - G.1.2 Monitor the compliance status of the current Significant Industrial Users (SIU's) through sampling, analysis, inspection, and record reviews. Recommend appropriate enforcement action to City of Fayetteville.
  - G.1.3 Receive, review and act upon reports and notification from industrial users.
  - G.1.4 Prepare notice of violations and other enforcement documentation for City of Fayetteville signature in accordance with the Enforcement Response Plan in the State approved Industrial Pretreatment Program.
  - G.1.5 Track, determine, and publish industrial users in significant noncompliance.
  - G.1.6 Draft new, revised, and renewal industrial waste discharge permits for the SIU's for City of Fayetteville signature.
  - G.1.7 Conduct an Industrial Waste Survey periodically to identify new, or significant, industrial users in Fayetteville and in cities with which Fayetteville has inter-jurisdictional agreements for waste treatment.
  - G.1.8 Assist City of Fayetteville with review and revision of local limits, the sewer use ordinances, the pretreatment program, and inter-jurisdictional agreements.
  - G.1.9 Prepare for City of Fayetteville signature and submit the Industrial Pretreatment annual report.
  - G.1.10 Maintain all industrial monitoring records for at least three (3) years.
  - G.1.11 Maintain open communication with the SIU's.
  - G.1.12 Keep City of Fayetteville informed of pretreatment activities and changes in regulatory requirements.
  
- G.2 Significant costs due to new or changed Federal, State or local regulations shall cause a change of contract scope.
  
- G.3 Industrial Waste Dischargers and Monitoring Program in City of Fayetteville, AR:

<b>Industry</b>	<b>Parameters Analyzed</b>
Custom Powder Coating Services, Inc. 1629 W. Farmington St. Fayetteville, AR 72701	Cadmium, chromium, copper, lead, nickel, silver, zinc, cyanide
Elkhart Products Corporation 3265 Highway 71 South Fayetteville, AR 72701	Chromium, copper, lead, nickel, zinc, oil & grease

<b>Industry</b>	<b>Parameters Analyzed</b>
Hiland Dairy Company 301 E. 15 <sup>th</sup> Street Fayetteville, AR 72701	Biochemical oxygen demand, total suspended solids, phosphorus, pH, oil & grease
Marshalltown Company 2200 Industrial Drive Fayetteville, AR 72701	Cadmium, chromium, copper, lead, nickel, silver, zinc, cyanide
Pinnacle Foods Corporation 1100 W, 15 <sup>th</sup> Street Fayetteville, AR 72701	Biochemical oxygen demand, total suspended solids, phosphorus, pH, oil & grease
Superior Industries International Arkansas, LLC 1901 Borick Drive Fayetteville, AR 72701	Cadmium, chromium, copper, lead, nickel, silver, zinc, cyanide
Tyson Mexican Original, Inc. 2615 S. School Fayetteville, AR 72701	Biochemical oxygen demand, total suspended solids, phosphorus, pH, oil & grease

## Appendix H

### VEHICLE AND MOBILE EQUIPMENT DESCRIPTION (ROLLING STOCK)

<b>Unit #</b>	<b>Unit Description</b>	<b>Location</b>	<b>Year</b>
85U	1998 Ford F-800 Flatbed	Biosolids Management Site	1998
325U	Ford F350 Super Duty, Reg. Cab	Biosolids Management Site	2000
376	Ford F550 Super Duty/Crane, Crew Cab	Biosolids Management Site	2012
382	Ford F550 Super Duty/Crane, Crew Cab	Biosolids Management Site	2015
387	Ford F-350, Flatbed	Biosolids Management Site	2016
388	Ford F-350, Flatbed	Paul R Noland	2016
566	Ford/New Holland LS55 Lawn Tractor	Biosolids Management Site	1999
570	New Holland 8670 Tractor	Biosolids Management Site	2000
696	Caterpillar 420E Backhoe	Biosolids Management Site	2012
741U	Mack Semi Tractor	Biosolids Management Site	1996
748U	Freightliner M2-112 Dump Tandem Axle	Biosolids Management Site	2006
751	Sterling LT9500 Semi Tractor	Biosolids Management Site	2006
766	Kenworth T800 Semi Tractor	Biosolids Management Site	2011
768	Kenworth T470 (Spreader)	Biosolids Management Site	2012
770	Kenworth T800 Semi Tractor	Biosolids Management Site	2013
771	Kenworth T800 Semi Tractor	Biosolids Management Site	2013
818	Caterpillar P5000LP Forklift	West Side	2008
910	Trailer	Paul R Noland	1987
927	Parker 24' Gooseneck Trailer	Biosolids Management Site	1991
966	P.J. Trailer, 18FT	Biosolids Management Site	1996
969	LO-Boy 25T-36FT Trailer	Biosolids Management Site	1996
1166U	2006 Ford Explorer	Paul R Noland	2011
1274	Chevrolet Equinox	West Side	2014
2156	Chevy Colorado, 4X4	Paul R Noland	2012
5001	John Deere 6615 4X4 Tractor	Biosolids Management Site	2007
5002	John Deere 6615 4X4 Tractor	Biosolids Management Site	2007
5012	Ford/New Holland 4X4 T6030 Loader Tractor	Biosolids Management Site	2009
5022	Case Maxxum 125 4X4 Loader Tractor	Biosolids Management Site	2011
5024	R&R 35' Manure/Litter Conveyor	Biosolids Management Site	2011
5025	R&R 35' Manure/Litter Conveyor	Biosolids Management Site	2011
5031	John Deere MOCO6030 Discbine	Biosolids Management Site	2012
5032	New Holland BR740 Round Baler	Biosolids Management Site	2012
5033	New Holland BB9060 Square Baler	Biosolids Management Site	2012
5034	Rhino R180 Cutter	Biosolids Management Site	2012
5037	New Holland BR7060 Round Baler	Biosolids Management Site	2012
5044	John Deere 630 Mower Conditioner	Biosolids Management Site	2014
5045	John Deere 630 Mower Conditioner	Biosolids Management Site	2014

5057	Ford/New Holland Workmaster 55 4X4 Tractor	Biosolids Management Site	2015
5058	Ford/New Holland T6.155 4X4 Loader Tractor	Biosolids Management Site	2015
5059	John Deere 615D 4X4 Loader Tractor	Biosolids Management Site	2015
5070	Meyer Spreader	Biosolids Management Site	2016
5072	New Holland Hay Rake	Biosolids Management Site	2017
6000	John Deere Articulated Loader	Biosolids Management Site	2012
6018	Volvo MC135C Skid Steer	Biosolids Management Site	2016
9025	Volvo Penta 400 KW Generator	Lift Station12	2001
9034	Yale 5000# Fork Lift	Paul R Noland	2002
9111	Clement Star-Lite Trailer	Paul R Noland	2009
9124	Thompson 6" Diesel Power Pump/Trailer	Paul R Noland	2009
9142	Aulick 42' Belted Trailer	Biosolids Management Site	2011
9165	Clement Star-lite Trailer	Biosolids Management Site	2013
9166	Clement Star-lite Trailer	Biosolids Management Site	2013
9193	Clement Starlite End Dump Trailer	Biosolids Management Site	2015
9227	Clement Starlite End Dump Trailer	Biosolids Management Site	2016
9239	Genie S-45 Man Lift	Biosolids Management Site	2017
9241	Clement Starlite End Dump Trailer	Biosolids Management Site	2017
9250	Unicarriers 50 Forklift	Paul R Noland	2017
	Parkson Electronic Mole – Billy	Biosolids Management Site	2011
	Parkson Electronic Mole – Cricket	Biosolids Management Site	2011
	Parkson Electronic Mole – Goofy	Biosolids Management Site	2011
	Parkson Electronic Mole – Jurgens	Biosolids Management Site	2011
	Parkson Electronic Mole – Tiny Tim	Biosolids Management Site	2011
	Parkson Electronic Mole – Trick	Biosolids Management Site	2011
	Portable Generator for Lift stations	Paul R Noland	2005



## Appendix I

### BASE FEE ADJUSTMENT

I.1 The Base Fee adjustment formula is as follows:

$$ABF = BF \times (1 + AF)$$

Where:

- BF = Base Fee specified in Appendix D  
ABF = Adjusted Base Fee  
AF = Adjustment Factor as determined by the formula:

$$AF = .5 (ECI + CPI)$$

- ECI = The twelve month percent change (from the third quarter of the prior year to the third quarter in the current year) in the Employment Cost Index for Total Compensation for Civilian Workers, Not Seasonally Adjusted as published by U. S. Department of Labor, Bureau of Labor Statistics in the Detailed Report Series ID: CIU1010000000000A.  
CPI = The twelve month percent change (from October of the prior year to October of the current year) in the Consumer Price Index for All Urban Consumers, Not Seasonally Adjusted as published by U.S. Department of Labor, Bureau of Labor Statistics in the CPI Detailed Report Series Id: CUUR000SA0.