

## **REQUEST FOR QUALIFICATIONS (RFQ)**

**FOR**

### **OPERATION AND MAINTENANCE SERVICES FOR THE GREATER NORTHEAST HOUSTON SERVICE AREA WATER AND WASTEWATER UTILITIES AND FACILITIES**

**CITY OF HOUSTON  
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING**

**RFQ No. S22-Q23431**

#### **1. PURPOSE**

The Public Works and Engineering Department (PWE) invites the submittal of Statements of Qualifications (SOQs) from firms interested in providing operations and maintenance services for the Greater Northeast Houston Service Area Utilities and Facilities. Owned by the City of Houston, the Greater Northeast Houston Service Area Utilities and Facilities currently includes the Kingwood and Forest Cove Subdivisions, Lake Houston Water System, MUDs 48 and 58 as well as other surrounding Municipal Utility District Water Systems. The goal of this RFQ is to identify and pre-qualify or short list Service Providers having the demonstrated experience and financial capability to effectively and efficiently assume the responsibilities outline herein.

## **1.1 BACKGROUND INFORMATION**

The firms will provide a description of all services necessary to transition from the current contractor and to operate and maintain all drinking water production and wastewater treatment facilities and infrastructure in compliance with all applicable rules, regulations and City of Houston standards, as will be outlined in this Statement of Qualifications.

1.1.1 Prospective Service Providers are invited to submit a Statement of Qualifications to the City of Houston, Texas (City) for providing full-service operation and maintenance services for the Greater Northeast Houston Service Area Utilities and Facilities.

1.1.2 This Request for Qualifications (RFQ) has been issued by the City to provide firms with information, guidelines, and rules to prepare and submit a Statement of Qualification which must satisfy all criteria established in this RFQ to qualify for consideration.

1.1.3 The title of the work described in the RFQ is "Operation and Maintenance Services for the Greater Northeast Houston Service Area Utilities and Facilities.

1.1.4 It is planned that pre-qualified firms will be asked to provide a cost proposal for operation and maintenance of the Greater Northeast Houston Service Area Utilities and Facilities for a period of three (3) consecutive years, with two one-year options for extensions, commencing in early 2010. Pre-qualified firms will receive a copy of the proposed project contract and technical requirements to be used in preparation of their cost proposals.

## **1.2 NOTICE TO RESPONDENTS**

1.2.1 Please review the Scope of Work and Qualification Requirements. If you believe that your company/organization meets the minimum requirements as outlined in the Scope of Work and Qualification Requirements, please submit your response to Jun Chang P.E., via the following address no later than 5:00 p.m. on Wednesday October 7, 2009

Jun Chang P.E. City of Houston, Department of Public Works and Engineering 611 Walker, 25 Floor Houston, TX 77002

1.2.2 If a Respondent discovers any ambiguity, inconsistency, or error in the RFQ, the respondent shall be required to seek an interpretation in writing as described in the following paragraph before submitting its SOQ.

1.2.3 There will be no pre-qualification conference. Prospective Respondents needing additional information/clarification to this Request for Qualification (RFQ) are requested to e-mail questions to David Guernsey at david.[guernsey@cityofhouston.net](mailto:david.guernsey@cityofhouston.net) or alternatively Joe Goodman at [joe.goodman@cityofhouston.net](mailto:joe.goodman@cityofhouston.net). The deadline for submitting questions is Friday, September 25, 2009. All relevant questions will be answered via letter of clarification to this RFQ and posted on the City's e-bidding website.

### **1.3 STATEMENT OF QUALIFICATION (SOQ) SUBMITTAL**

1.3.1 The SOQ shall identify all terms and conditions anticipated with the types of services envisioned as part of this project. At a minimum, the technical SOQ shall contain the following items (10-page maximum for each section):

- Executive Summary
- Service Provider Information
- Examples of the most recent contracts
- References for relevant type of work
- Documentation of Certifications

1.3.2 One original shall be submitted on 8½ x 11-inch sheets in one loose-leaf binder with original signatures, labeled section dividers and 15 PDF copies on separate CDs. Text shall be double-spaced, and pages shall be single-sided use type font Arial size 11. Respondents must respond concisely to each of the requirements or questions presented in the following subsections. Each requirement or question must be responded to separately, with the requirement or question preceding each response.

1.3.2.1 Each SOQ shall be organized in the following order:

1.3.2.2 Outside Cover of the binder and/or first page: Shall contain the name of the SQQ ("Statement of Qualifications for the Greater Northeast Houston Service Area Utilities and Facilities), the name of the respondent, and the submittal date. Remember to label the cover and first page of the binder, with original documents in it, "ORIGINAL" on the cover.

1.3.2.3 Table of Contents: The next page shall be a table of contents.

1.3.2.4 Section: 1 Divider (Letters and Forms)

Transmittal Letter: The first page following the divider shall be a one-page letter transmitting the SOQ to Jun Chang P.E., Public Works and Engineering Department. The transmittal letter shall say that the signer of the document is authorized by the Respondent to sign the document. At least one copy of the transmittal letter shall contain the original signature of a partner, principal, or officer of respondent.

1.3.2.5. M/WBE Letter(s): Following the transmittal letter shall be a one-page letter from each City-certified M/WBE firm included on the team, indicating the M/WBE firm's desire to be included on the team and indicating a general statement of the scope of services the M/WBE firm will perform if Respondent is selected. **NOTE:** The scope of service proposed by the M/WBE firm must match the service for which the M/WBE firm is certified by City. At least one copy of each of this letter shall contain the original signature of a partner, principal or officer of the M/WBE firm.

1.3.2.6 Copy of Conflict of Interest Questionnaire: (Texas Ethics Commission Form CIQ found at [www.ethics.state.tx.us/forms/CIQ.pdf](http://www.ethics.state.tx.us/forms/CIQ.pdf)). Local Government Code Chapter 176 requires firms seeking to do business with the City of Interest Questionnaire with the City.

1.3.2.7 Section 2: Divider Project Brief:

The respondent shall select a total of three projects: To highlight as best representing the firm's experience and provide a briefing sheet for each that shall be one-page and should contain information, which shows the capability of the firm and Project Manager to provide the range of services that are required by this project. The work described must have been performed within the past ten years. Minimally, each brief shall contain:

- Project name and location

- Year operations were started, if operations are still under contract and brief explanation regarding steps respondent's team members took to maintain operations contract
- Short description of services provided
- How this operational experience relates to this RFQ project

#### 1.3.2.9 Section 3: Divider (Narrative)

Narrative: The Respondent will provide no more than three pages of narrative that describes:

- Firm's understanding of the City's needs and Firm's approach to this project
- Firm's knowledge of the elements involved in this project, and approach to be taken for the services requested. Elements of the project such as assessment of existing conditions, timely scheduling, cost-effectiveness, energy savings and operational efficiency, other environmental issues, quality control, agency regulations, operation, maintenance, and security may be included;
- Firm's systems and processes for insuring quality and timely performance on projects;
- Firm's track record of meeting deadlines and working with a budget.

## 1.4 QUALIFICATION REQUIREMENTS

1.4 In the "Service Provider Information" section of the technical proposal, respondents must provide the following information in a clear and comprehensive manner. Failure to do so may result in disqualification.

1.4.1 Provide the full name, tax identification number, and main office address of the entity that proposes to enter into the Agreement with the City and the proposed guarantor.

1.4.2 Identify when the entity and its guarantor were organized and, if a corporation, where incorporated.

1.4.3 State how many years the entity has been engaged in providing water and wastewater system operation and maintenance services under its current name.

1.4.4 Provide a listing of all full-service water and/or wastewater system operation, maintenance and management agreements to which the respondent and its guarantor are currently a party. Full service operation, maintenance, and management means, at a minimum, providing all labor and management, paying routine operation and maintenance expenses, guaranteeing a maximum cost for routine services, and guaranteeing compliance with applicable regulatory requirements. For each current agreement, provide the following information:

- Gross annual amount of each contract;
- Contract start date;
- Anticipated completion date;
- Name, address, contact person, and telephone number of the owner; and
- Size and type of facility.

## **1.5 QUALIFICATION REQUIREMENTS**

1.5.1 The City will qualify Respondents based upon their firm's experience, background and technical expertise in the subject area. Respondents must prove to the satisfaction of the City that they meet all the qualification requirements described herein. Respondents that meet the qualification requirements will be issued the RFP for operation of the Greater Northeast Houston Service Area Utilities and Facilities.

1.5.3 Each qualified Respondent shall hold a valid certificate of registration as a public water system operations company in accordance with 30 TAC §325.28(a). Additionally, each qualified Respondent shall hold a valid certificate of registration as a wastewater system operations company in accordance with 30 TAC §325.126(a).

1.5.5 The prospective Service Provider must demonstrate that it has successfully provided full-service management, operation, and maintenance of at least one 5 MGD or larger WWTP, utilizing the activated sludge process, in the United States for at least 3 years during the past 10 years.

1.5.6 The prospective Service Provider must demonstrate that it has successfully provided full-service management, operation, and maintenance of at least one groundwater treatment and distribution system, serving more than 25,000 people, in the United States for at least 3 years during the past 10 years.

1.5.7 The proposed guarantor must satisfy one of the following criteria in order to demonstrate its financial stability and capability to perform the required services. Respondents are hereby notified that the City reserves the right to require a different guarantor.

1.5.7.1 An investment grade credit rating on long-term debt, as determined by either Standard & Poor's Rating Services and/or Moody's Investor's Services, and the capability to obtain a performance bond of at least \$5 million dollars.

1.5.7.2 Capability to obtain a performance bond of at least \$5 million and cash or cash equivalents of at least \$5 million or an authorized letter of credit or line of credit of the same amount.

1.5.7.3 Capability to obtain a performance bond of at least \$10 million or an authorized letter of credit or line of credit of the same amount.

1.5.8 The prospective Service Provider must commit to provide a project manager with at least 10 years of progressive experience in contract operation and maintenance of municipal water and/or wastewater systems including at least one project with a contract value greater than \$1 million annually.

1.5.9 The prospective Service Provider must commit to provide a Class B certified groundwater operator who will bear overall responsibility for operation and maintenance of the Water Systems and sign all reports or certifications submitted to regulatory agencies.

1.5.10 All certified groundwater operators, proposed by the Service Provider, shall be subject to be approved by the Director. Certified operators may operate multiple systems so long as they comply with requirements of 30 TAC §290.

1.5.12 Any water system operator, except an operator-in-training, shall possess a valid certificate of competency as a public water system operator in accordance with 30 TAC §290.46. All duties performed by an operator-in-training shall be performed in the presence of a certified operator.

1.5.13 A certified groundwater treatment operator may perform all duties relating to the operation and maintenance of drinking water production and water distribution systems.

1.5.14 The prospective Service Provider must commit to provide a Class A certified wastewater treatment facility operator who will bear overall responsibility for operation and maintenance of the Wastewater Systems and sign all reports or certifications submitted to regulatory agencies.

1.5.15 Each Wastewater Collection System Operator, except an operator-in-training, shall hold a valid certificate of competency in accordance with applicable TCEQ requirements. An operator-in-training must work in the presence of a certified operator.

## **2. REQUIRED QUALIFICATIONS AND SELECTION CRITERIA**

2.1 The City is seeking highly qualified Contract Operations and Maintenance firms to manage its Drinking Water Production and Wastewater Treatment facilities and related infrastructure located in Northeastern Harris County. (See Map).

2.2 A selection Committee composed of representatives from PWE will review the SOQs. The criteria used to evaluate the RFQ responses will include the following:

2.2.1. Completeness of submittal response: SOQ follows the prescribed format and contains all information requested in RFQ (maximum 30 points).

2.2.2. Experience: in similar or relevant projects by firm (maximum 30 points).

In order to receive full points, a responding firm must have at least ten performance contracting references of similar size, scope or focus;

2.2.3. Business qualifications: project track record of firm, number of years in business or provider of the services being offered for this program; (maximum 15 points).

2.2.4. Financial qualifications: the long-term financial viability of the entity proposed to provide technical and financial guarantees; may be demonstrated by audited financial statements including income statements, balance sheets and statements of change for two most recent completed fiscal years (maximum 15 points).

2.2.5. Project management qualifications: ability to adhere to schedules and to timely complete all phases of the contracting process (maximum 15 points).

### **3.1 SCOPE OF WORK**

3.1 The purpose of this project is to cost effectively manage the operation and maintenance of the Greater Northeast Houston Service Area Utilities and Facilities. The goal of this RFQ is to select contractors that are capable efficiently providing quality service to our customers.

3.2 The objectives are to lower the capital and operating costs of all aspects of water and wastewater treatment, distribution, and collection; to improve the quality of water and wastewater services; and to continue local purchases of supplies and consumables, wherever practicable.



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## LIST OF FACILITIES

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### DRINKING WATER FACILITIES

#### UTILITY DISTRICT 5 WATER SYSTEM

Plant Name	Address	Key Map
Kingwood-1	500 Woodland Hills	336G
Kingwood-2	3211 Apalachin Trail	297P
Kingwood-3	8750 Mills Branch Dr.	297V
Forest Cove-2	1110 Mustang Trail	336F
Forest Cove-3	1625 Laurel Springs	336E
MUD 58	22605 Loop 494	296S

Plant Name	Tank No.	Address	Key Map	Storage Capacity (MG)
Kingwood-1	ES-1	2802 Water Well Road	336D	0.75
	ES-4	500 Woodland Hills	336G	1.50
	GS-1	2310 Northpark	296V	1.00
	GS-2	2310 Northpark	296V	1.00
Kingwood-2	ES-2	3211 Appalachian Trail	297P	1.50
	GS-1	3822 Rustic Woods	297X	1.41
	GS-2	3822 Rustic Woods	297X	0.948
Kingwood-3	ES-3	2903 High Valley	338A	1.50
	GS-1	8750 Mills Branch Drive	297V	1.706
	GS-2	8750 Mills Branch Drive	297V	0.00
Forest Cove-2	ES-1	1110 Mustang Trail	336F	0.25
	GS-1	1110 Mustang Trail	336F	0.085
	GS-2	1110 Mustang Trail	336F	0.085

Plant Name	Tank No.	Address	Key Map	Storage Capacity (MG)
Forest Cove-3	GS-1	1625 Laurel Springs	336E	0.592
	HYD-1	1625 Laurel Springs	336E	0.01
MUD 58	GS-1	22605 Loop 494	296S	0.429
	HYD-1	22605 Loop 494	296S	0.02

Plant Name	Well No.	Address	Key Map	Design Capacity (gpm)
Kingwood-1	Well-02	2310 North Park	296V	1,500
	Well-03	2200 North Park	296V	1,400
	Well-04	4205 Woodland Hills	296R	1,461
	Well-05	2703 North Park	297S	1,320
	Well-06	5511 Fairgrove	297N	1,400
Kingwood-2	Well-01	3822 Rustic Woods	297X	1,642
	Well-02	3331 Village Park	297X	1,759
	Well-03	4830 Kingwood Drive	337C	1,500
	Well-04	3940 Kingwood Drive	337B	1,600
Kingwood-3	Well-01	8750 Mills Branch Drive	297V	1,450
	Well-02	2903 High Valley	338A	1,639
	Well-03	6350 Kingwood Drive	297V	1,500
Forest Cove-2	Well-02	1110 Mustang Trail	336F	1,700
	Well-04	1110 Mustang Trail	336F	1,700
Forest Cove-3	Well-03	1625 Laurel Springs	336E	1,000
MUD 58	Well-01	22605 Loop 494	296S	1,000

Plant Name	Pump No.	Pump Type	Design Capacity (gpm)
Kingwood-1	BP-01	Vertical-Can	1,500
	BP-02	Vertical-Can	1,500
	BP-03	Vertical-Can	1,500
	BP-04	Vertical-Can	1,500
Kingwood-2	BP-01	Horizontal Split-Case	1,500
	BP-02	Horizontal Split-Case	1,500
	BP-03	Horizontal Split-Case	1,500
	BP-04	Horizontal Split-Case	1,730

Plant Name	Pump No.	Pump Type	Design Capacity (gpm)
Kingwood-3	BP-01	Horizontal Split-Case	1,800
	BP-02	Horizontal Split-Case	1,800
	BP-03	Horizontal Split-Case	1,800
Forest Cove-2	BP-01	Vertical-Can	500
	BP-02	Vertical-Can	250
Forest Cove-3	BP-01	Vertical-Can	400
	BP-02	Vertical-Can	400
	BP-03	Vertical-Can	400
MUD 58	BP-01	Vertical-Can	625
	BP-02	Vertical-Can	625
	BP-03	Vertical-Can	625

#### BELLEAU WOODS WATER SYSTEM

Plant Name	Address	Key Map
Belleau Wood-2	3422 White Deer	336Q
Moonshire Hills Re-Pump	19000 Moonshine Hill Loop	338C

Plant Name	Tank No.	Address	Key Map	Storage Capacity (MG)
Belleau Woods-2	GS-1	3422 White Deer	336Q	0.056
	HYD-1	3422 White Deer	336Q	0.02
Moonshire Hills	GS-1	19000 Moonshine Hill Loop	338C	0.203
	HYD-1	19000 Moonshine Hill Loop	338C	0.02

Plant Name	Well No.	Address	Key Map	Design Capacity (gpm)
Belleau Woods-2	Well-02A	3422 White Deer	336Q	339

Plant Name	Pump No.	Pump Type	Design Capacity (gpm)
Belleau Woods-2	BP-01	Horizontal Split-Case	200
	BP-02	Horizontal Split-Case	200

<b>Plant Name</b>	<b>Pump No.</b>	<b>Pump Type</b>	<b>Design Capacity (gpm)</b>
Moonshine Hills	BP-01	Horizontal Split-Case	700
	BP-02	Horizontal Split-Case	700
	BP-03	Horizontal Split-Case	700

<b>Plant Name</b>	<b>Generator No.</b>	<b>Address</b>	<b>Key Map</b>	<b>Design Capacity (KW)</b>	<b>Fuel Capacity (gal)</b>
Belleau Woods-2	GEN-01	3422 White Deer	336Q	80	500
Moonshine Hill	GEN-01	19000 Moonshine Hill Loop	338C	250	350

**MUNICIPAL UTILITY DISTRICT 73 WATER SYSTEM**

Plant Name	Address	Key Map
District 73-1	24120 E. Lake Houston Pkwy	338R
District 73-2	306 Blue Tail	338L

Plant Name	Tank No.	Address	Key Map	Storage Capacity (MG)
District 73-1	GS-1	24120 E. Lake Houston Pkwy	338R	0.065
	GS-2	24120 E. Lake Houston Pkwy	338R	0.5
District 73-2	ES-1	306 Blue Tail	338L	0.1
	GS-1	306 Blue Tail	338L	0.427
	GS-2	306 Blue Tail	338L	0.508
	HYD-1	306 Blue Tail	338L	0.02

Plant Name	Well No.	Address	Key Map	Design Capacity (gpm)
District 73-1	Well-01A	24120 E. Lake Houston Pkwy	338R	1,000
District 73-2	Well-03	306 Blue Tail	338L	811

Plant Name	Pump No.	Pump Type	Design Capacity (gpm)
District 73-1	BP-01	Horizontal Split-Case	500
	BP-02	Horizontal Split-Case	1,000
	BP-03	Horizontal Split-Case	1,000
	BP-04	Horizontal Split-Case	250
District 73-2	BP-01	Horizontal Split-Case	500
	BP-02	Horizontal Split-Case	500
	BP-03	Horizontal Split-Case	500

Plant Name	Generator No.	Address	Key Map	Design Capacity (KW)	Fuel Capacity (gal)
District 73-1	GEN-01	24120 E. Lake Houston Pkwy	338R	400	500
District 73-2	GEN-01	306 Blue Tail	338L	250	500

**MUNICIPAL UTILITY DISTRICT 82 WATER SYSTEM**

<b>Plant Name</b>	<b>Address</b>	<b>Key Map</b>
District 82	1340 West Lake	338C
Plantation Hills	26906 Plantation Hill	299V

<b>Plant Name</b>	<b>Tank No.</b>	<b>Address</b>	<b>Key Map</b>	<b>Storage Capacity (MG)</b>
Plantation Hills	GS-1	26906 Plantation Hill	299V	0.203
	GS-2	26906 Plantation Hill	299V	0.203
	HYD-1	26906 Plantation Hill	299V	0.01

<b>Plant Name</b>	<b>Well No.</b>	<b>Address</b>	<b>Key Map</b>	<b>Design Capacity (gpm)</b>
Plantation Hills	Well-01	26906 Plantation Hill	299V	1,000
	Well-02	27225 Huffman Cleveland	299V	1,000

<b>Plant Name</b>	<b>Pump No.</b>	<b>Pump Type</b>	<b>Design Capacity (gpm)</b>
Plantation Hills	BP-01	Horizontal Split-Case	200
	BP-02	Horizontal Split-Case	1,000
	BP-03	Horizontal Split-Case	1,000
	BP-04	Horizontal Split-Case	200

<b>Plant Name</b>	<b>Generator No.</b>	<b>Address</b>	<b>Key Map</b>	<b>Design Capacity (KW)</b>	<b>Fuel Capacity (gal)</b>
District 82	GEN-01	1340 West Lake	338C	25	500
Plantation Hills	GEN-01	26906 Plantation Hill	299V	300	1,000

## LAKE HOUSTON WATER SYSTEM

<b>Plant Name</b>	<b>Address</b>	<b>Key Map</b>
Eisenhower Park	13501 Aqueduct	418A

<b>Plant Name</b>	<b>Tank No.</b>	<b>Address</b>	<b>Key Map</b>	<b>Storage Capacity (MG)</b>
Eisenhower Park	HYD-1	13501 Aqueduct	418A	0.01
	HYD-2	13501 Aqueduct	418A	0.01

<b>Plant Name</b>	<b>Well No.</b>	<b>Address</b>	<b>Key Map</b>	<b>Design Capacity (gpm)</b>
Eisenhower Park	Well-01	13501 Aqueduct	418A	60

## WASTEWATER FACILITIES

Plant Name	Facility #	Address	Key Map	FLOW (MGD)*		
				ADF	TCEQ Permit	
KINGWOOD CENTRAL	518	3928	KINGWOOD DR.	337-F	5.300	7.000
KINGWOOD WEST	451	5900	SORTERS RD.	295-V	0.360	0.950
FOREST COVE	565	21951	TRAIL TREE LANE	336-E	0.302	0.950
CEDAR BAYOU	244	2804	HUFFMAN EASTGATE	339-G	0.655	0.950
WEST LAKE HOUSTON (Mud 450)	627	16880 1/2	WEST LAKE HOUSTON PARKWAY	377-G	0.300	0.02

LS Name				
AG FARM	516	2323 1/2	WOODLAKE LANE	336-G
BASSINGHAM	526	4202	BASSINGHAM	297-S
BEN'S BRANCH	503	2423	LAKE HOUSTON PKWY	337-B
BROOKDALE	527	2807	BROOKDALE	297-S
CHESTNUT RIDGE	512	2511	CHESTNUT RIDGE	336-A
CLOVER VALLEY	505	3415	CLOVER VALLEY	297-U
DEER RIDGE ESTATES	510	22	DEER RIDGE ESTATES	336-G
DEER SPRINGS	513	2230	DEER SPRINGS	337-N
ELMWOOD HILL	519	5938	ELMWOOD HILL LANE	338-E
FOREST GARDEN	501	1815	FOREST GARDEN	337-C
FOREST SHORES	509	2714	ROYAL CIRCLE	336-D
GOLF COURSE	521	1300	PINE BEN	337-E
KINGWOOD CENTRAL	517	3928	KINGWOOD DR.	337-B
KINGWOOD FOREST, NORTH	590	5510	ROCKY TRAIL DR.	297-N
LADBROOK	514	2307	LADBROOK	336-B
LAKE VILLAGE	508	1802	LAKE VILLAGE	336-C

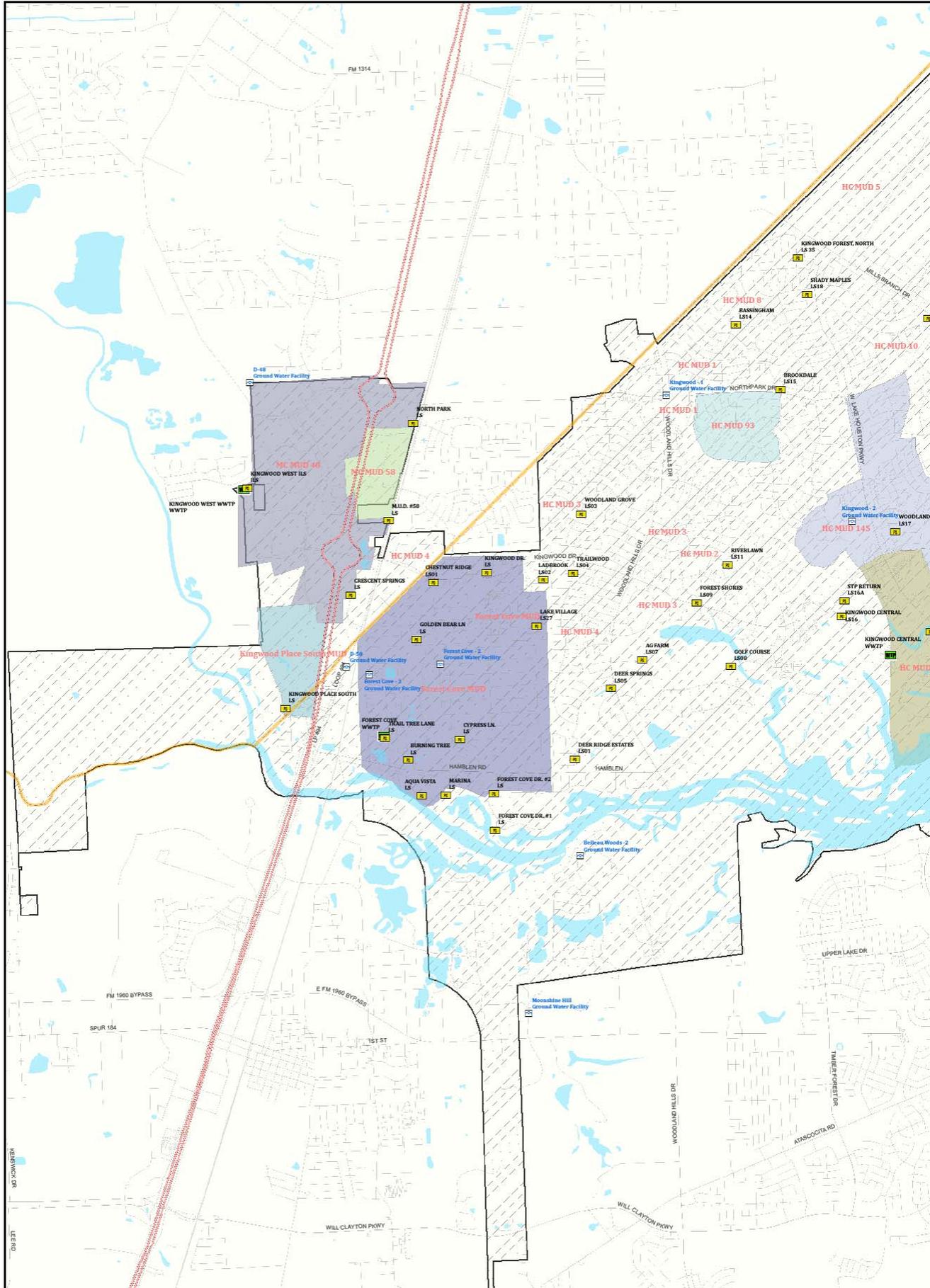
LAKE WILDERNESS	507	1602	LAKE WILDERNESS LANE	338-A
PINE PRAIRIE RIVER	523	5014	PINE PRAIRIE	297-U
RIVER	504	1313	LAKE HOUSTON PKWY	337-G
RIVERCHASE TRAIL	591	5725	RIVERCHASE TRAIL	297-V
RIVERLAWN	524	3326	RIVERLAWN	336-D
SHADY MAPLES	525	4911	SHADY MAPLES	297-N
STATELY OAKS	506	2302	STATELY OAKS	297-Z
STP RETURN	522	4006	KINGWOOD DR.	337-B
TRAIL RIVER	520	2100	TRAIL RIVER	337-D
TRAILWOOD	515	2451	TRAILWOOD VILLAGE	336-C
WOODLAND GROVE	511	1966	BROOKSHADOW	296-Y
WOODLAND RIDGE	502	2603	WOODLAND RIDGE	297-X
WOODSTREAM	528	4923	WOODSTREAM	297-O
ROYAL SHORES	616	1102 1/2	SOUTH ROYAL POINT DRIVE	338-B
CRESCENT SPRINGS	453	19001	CRESCENT SPRINGS	336-A
KINGWOOD PLACE SOUTH	455	200	SORTERS Rd.	335-H
M.U.D. #58	452	22405	LOOP 494	296-W
NORTH PARK	454	22405	LOOP #494 & NORTH PARK	296-S
AQUA VISTA	493	972	AQUA VISTA	336-J
BURNING TREE	489	1000 1/2	BURNING TREE	336-J
CYPRESS LN.	495	1307	CYPRESS LN.	336-F
FOREST COVE DR. #1	490	226	FOREST COVE DR.	336-K
FOREST COVE DR. #2	491	510	FOREST COVE DR.	336-K
GOLDEN BEAR LN	488	914	GOLDEN BEAR LN	336-A
KINGWOOD DR.	494	1717	KINGWOOD DR.	336-B
MARINA	492	1068	MARINA	336-K
TRAIL TREE LANE	566	21900	TRAIL TREE LANE	336-E
W.C.I.D. #73	230	11510	F.M. 1960 E.	339-N
SUNNYGLEN DR.	192	24435	SUNNYGLEN DR.	338-Q

<b>GLENGYLE</b>	<b>90</b>	<b>24017</b>	<b>GLENGYLE CT.</b>	<b>338-Q</b>
<b>COVECREST</b>	<b>582</b>	<b>23000 1/2</b>	<b>LAGOON LANE</b>	<b>338-V</b>
<b>FAIRLAKE</b>	<b>580</b>	<b>23504</b>	<b>FAIRLAKE DRIVE</b>	<b>338-R</b>
<b>FIR RIDGE</b>	<b>70</b>	<b>204</b>	<b>FIR RIDGE</b>	<b>338-M</b>
<b>G.A.TROTT'S</b>	<b>604</b>	<b>23815</b>	<b>LOGAN LANE</b>	<b>338-Q</b>
<b>HAPPY HIDEAWAY</b>	<b>605</b>	<b>1709</b>	<b>WILDCAT LN.</b>	<b>338-C</b>
<b>HIDDEN ECHO</b>	<b>578</b>	<b>225</b>	<b>CORDES</b>	<b>298-Y</b>
<b>SCOTTS POINT</b>	<b>462</b>	<b>130 1/2</b>	<b>DEEER LAKE</b>	<b>338-L</b>
<b>SHOREWOOD</b>	<b>581</b>	<b>22627 1/2</b>	<b>WEST SHOREWOOD DRIVE</b>	<b>338-V</b>
<b>SPANISH COVE</b>	<b>606</b>	<b>1500</b>	<b>NOGALUS DR.</b>	<b>338-Y</b>
<b>W.C.I.D. #82</b>	<b>234</b>	<b>1621</b>	<b>SHORE SHADOWS</b>	<b>298-Y</b>
<b>LAKE LIVINGSTON DR</b>	<b>622</b>	<b>13846 1/2</b>	<b>LAKE LIVINGSTON DRIVE</b>	<b>377-M</b>
<b>OFF SITE</b>				

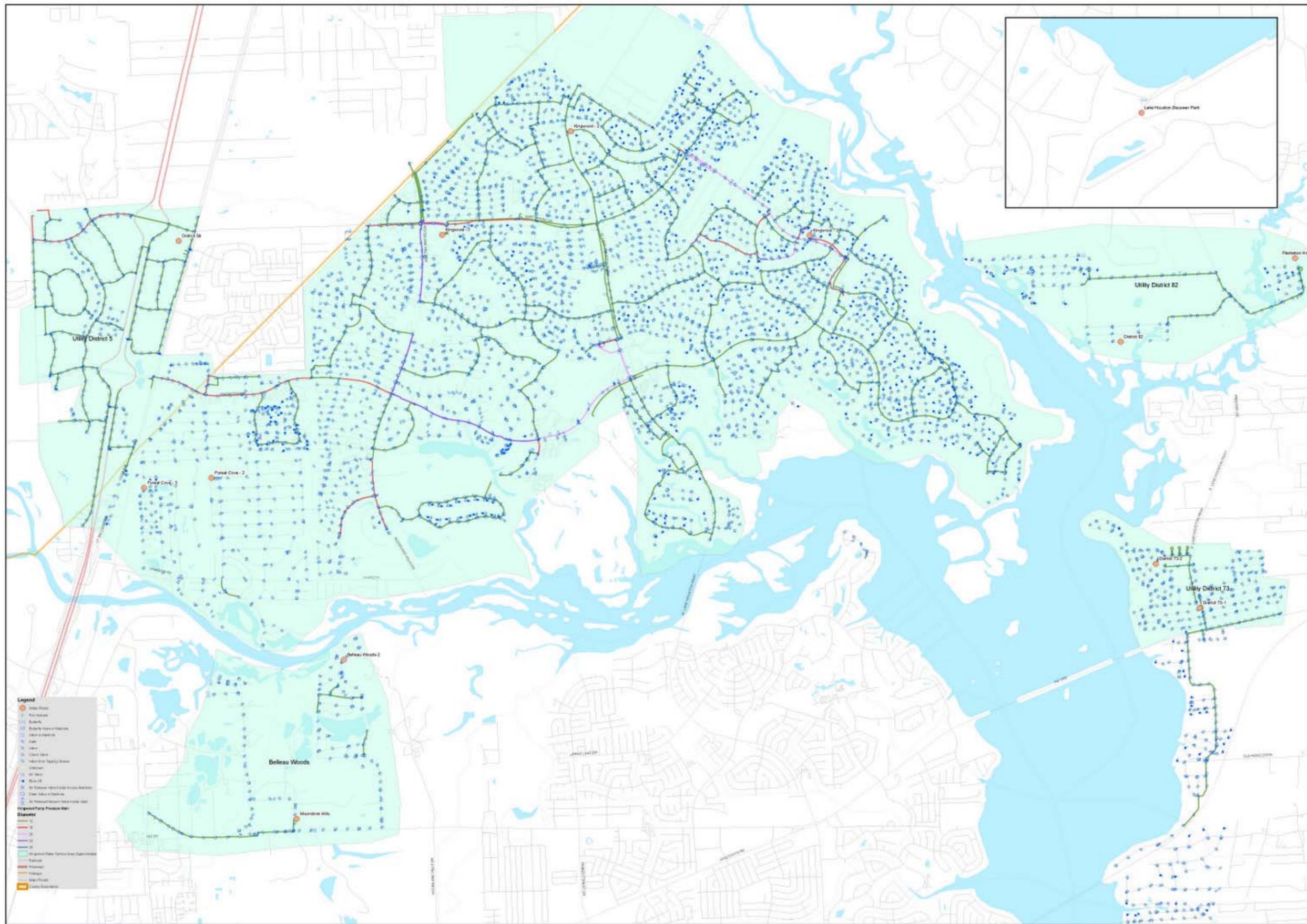
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## **SYSTEM MAPS**

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**Legend**

Water Mains

Valves

Hydrants

Water Bodies

Water Mains in Water

Water Mains in Air

Water Mains in Ground

Water Mains in Trench

Water Mains in Ditch

Water Mains in Canal

Water Mains in Pipeline

Water Mains in Tunnel

Water Mains in Bridge

Water Mains in Viaduct

Water Mains in Aqueduct

Water Mains in Conduit

Water Mains in Pipe

Water Mains in Tube

Water Mains in Cable

Water Mains in Wire

Water Mains in Fiber

Water Mains in Plastic

Water Mains in Metal

Water Mains in Concrete

Water Mains in Brick

Water Mains in Stone

Water Mains in Wood

Water Mains in Clay

Water Mains in Glass

Water Mains in Rubber

Water Mains in Leather

Water Mains in Paper

Water Mains in Fabric



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# Water Systems Map

**CITY OF HOUSTON**  
 Department of Public Works & Engineering  
 Public Utilities Division

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