



CITY OF HOUSTON INVITATION TO BID

Issued: July 15, 2011

BID OPENING

Sealed bids, in duplicate, will be received by the City Secretary of the City of Houston, in the City Hall Annex, Public Level, 900 Bagby, Houston, Texas 77002, until **10:30 AM September 8, 2011** and all bids will be opened and publicly read in the City Council Chamber, City Hall Annex, Public Level, 900 Bagby at 11:00 AM on that date for the purchase of:

**DRY PIT PUMP MAINTENANCE, REPAIR AND REPLACEMENT SERVICES
FOR THE PUBLIC WORKS & ENGINEERING DEPARTMENT
BID INVITATION NO.: S11-L23822
NIGP CODE: 936-43**

BUYER

Questions regarding this solicitation document should be addressed to Gloria Jordan-King at **832-393-8750** or e-mail to gloria.king@houstontx.gov.

ELECTRONIC BIDDING

In order to submit a bid for the items associated with this procurement, you must fill in the pricing information on the "**PLACE BID**" page.

PRE-BID CONFERENCE

A Pre-Bid Conference will be held for all Prospective Bidders at 900 Bagby Houston, Texas 77002 City Hall Tunnel Level (Basement) SPD Conference Room-2 at 1:30 p.m., on **Wednesday, July 20, 2011**.

All Prospective Bidders are urged to be present. It is the bidder's responsibility to ensure that they have secured and thoroughly reviewed the solicitation documents prior to the Pre-Bid Conference. Any revisions to be incorporated into this solicitation document arising from discussions before, during and subsequent to the Pre-Bid Conference will be confirmed in writing by Letter(s) of Clarification prior to the bid due date. Verbal responses will not otherwise alter the specifications, terms and conditions as stated herein.

Bidding forms, specifications, and all necessary information should be downloaded from the Internet at <https://purchasing.houstontx.gov/>. By registering and downloading this solicitation document, all updates to this solicitation document will be automatically forwarded via e-mail to all registered bidders. This information may also be obtained from the Supplier Assistance Desk, Strategic Purchasing Division, 901 Bagby, Concourse Level, Houston, Texas 77002.

The place of the bid opening may be transferred in accordance with Paragraph (b), (5) of Section 15-3 of The Code of Ordinances, Houston, Texas. The bid opening meeting may be rescheduled in accordance with Paragraph (b), (6) of said Section 15-3.

The City reserves the right to reject any or all bids or to accept any bid or combination of bids deemed advantageous to it.

City Employees are prohibited from bidding on this solicitation in accordance with the Code of Ordinances, Section 15-1.

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***NOTE 1:** Actual page numbers for each Section may change when the solicitation document is downloaded from the Internet or because of Letters of Clarification. Therefore, Bidders must read the bid document in its entirety and comply with all the requirements set forth therein.

***NOTE 2:** To be considered for award, please submit the electronic bid form and the forms listed in Section A, including the Official Signature Page, which must be signed by a company official authorized to bind the company.

SECTION A



**DRY PIT PUMP MAINTENANCE, REPAIR AND REPLACEMENT SERVICES
FOR THE PUBLIC WORKS & ENGINEERING DEPARTMENT
INVITATION NO.: S11- L23822
NIGP CODE: 936-43**

To The Honorable Mayor
and Members of the City Council
of the City of Houston (the "City"), Texas:

The undersigned Bidder hereby offers to contract with the City upon the terms and conditions stated in that certain **Dry Pit Pump Maintenance, Repair and Replacement Services for a three-year period with two (2) one-year option periods to extend for the Public Works & Engineering Department**, which was distributed by the City together with the "Notice to Bidders" and is hereby incorporated herein by this reference (the "Contract"). This offer is made at the prices stated on the electronic Bid Form. When issued by the City of Houston, Letters of Clarification shall automatically become part of this bid document and shall supersede any previous specifications or provisions in conflict with the Letters of Clarification. It is the responsibility of the bidder to ensure that it has obtained all such letters. By submitting a bid on this project, bidder shall be deemed to have received all Letters of Clarification and to have incorporated them into its bid.

The City may accept this bid offer by issuance of a Contract covering award of said bid to this Bidder at any time on or before the 180th day following the day this Official Bid Form is opened by the City. This offer shall be irrevocable for 180 days, but shall expire on the 181st day unless the parties mutually agree to an extension of time in writing.

The City of Houston reserves the option, after bids are opened, to increase or decrease the quantities listed, subject to the availability of funds, and/or make award by line item.

If the City accepts the foregoing offer, this Bidder promises to deliver to the City Purchasing Agent of the City, five (5) original counterparts of said Contract duly executed by this Bidder (as "Contractor") in accordance with this paragraph, proof of insurance as outlined in Article II of the Contract, all on or before the tenth (10th) day following the day this Bidder receives from the City the unsigned counterparts shall be executed so as to make it binding upon the Bidder, and all of the applicable requirements stated in the document entitled "Instructions for Execution of Contract Documents," (which was distributed by the City) shall be complied with.

***THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT, IN WHOLE OR IN PART, ANY OR ALL BIDS RECEIVED AND TO MAKE AWARD ON THE BASIS OF INDIVIDUAL GROUPS OR COMBINATION OF GROUPS, AS IT IS DEEMED IN THE BEST INTEREST OF THE CITY. IN ORDER TO BE CONSIDERED FOR AWARD OF A GROUP OR GROUPS, THE BIDDER MUST BID ALL ITEMS IN THAT GROUP; NO PARTIAL GROUP AWARD WILL BE MADE.**

If the City accepts the foregoing offer, this bidder shall furnish all labor, supervision, materials, supplies, equipment and tools necessary to provide **DRY PIT PUMPS** for the City in accordance with attached Specifications.

Documents/forms must be downloaded from the City's Website at <https://purchasing.houstontx.gov/>

Additional Required Forms to be included with this Bid:

In addition to the Electronic Bid Form and the Official Signature Page, the Forms listed in Table 1 **must be completed and submitted to the Office of the City Secretary on or before the date and time the bid is due.** When submitting bids via UPS/FedEx, etc. please label it with the name: Office of the City Secretary, City Hall Annex, Public Level, 900 Bagby, Houston, Texas 77002, along with the bid/proposal number:

TABLE 1 - REQUIRED FORMS
Affidavit of Ownership.doc
Fair Campaign Ordinance.doc
Statement of Residency.doc
Conflict of Interest Questionnaire.doc
Pay or Play Program Acknowledgement Form
Pay or Play Certification of Agreement to Comply w' the Program
Contractor's Questionnaire

Table 2 lists other documents and forms that should be viewed/downloaded from the City's website, but are not required to be submitted with the bid. The City will request these forms, as applicable, to be completed and submitted to the City by the recommended/successful bidder:

TABLE 2 - DOCUMENTS & FORMS
Drug Forms.doc
EEOC.doc
Formal Instructions for Bid Terms.doc
M/WBE.doc
Sample Insurance Over \$50,000.pdf
Pay or Play Office of Business Opportunity & Contract Compliance Q & A
Pay or Play Office of Business Opportunity & Contract Compliance Requirements
Pay or Play Contractor/Subcontractor Payment Reporting Form
Pay or Play Contractor/Subcontractor Waiver Request
Pay or Play List of Participating Subcontractors

Questions concerning the Bid should be submitted in writing to: City of Houston, Strategic Purchasing Division, 901 Bagby, Room B400, Houston, TX 77002, Attn: Gloria Jordan-King at **832-393-8750** or **e-mail (preferred method) to gloria.king@cityofhouston.net no later than Wednesday, August 15, 2011.**

CONTRACTOR’S QUESTIONNAIRE

In order to receive bid award consideration for any one of the Groups of Pumps listed in this bid, the bidder must be able to demonstrate one of the following requirements:

- 1. the bidder has been doing Repair and Maintenance Services for Dry Pit Pumps over the last ten (10) years
- 2. the bidder has been providing similar repair services for the specific Pump Group over the last five (5) years.
- 3. the bidder has at least one contract, as a prime contractor, that is similar in size and scope to this contract in the last five (5) years.

Bidder must have references documenting that it has performed Dry Pit Pump Maintenance, Repair and Maintenance Services for the Pump Group that they are submitting bids. The reference(s) should be included in the space provided below. Please attach another piece of paper if necessary. If references are not included with the bid, the bidder shall be required to provide such references to the City of Houston within five working days from receipt of a written request from the City of Houston to do so. **BIDDER’S CAPABILITY AND EXPERIENCE SHALL BE A FACTOR IN DETERMINING THE CONTRACTOR’S RESPONSIBILITY.**

1. Name: _____

Address: _____

City & State: _____

Name & Phone Number of Contact: _____ Years of Services: _____

2. Name: _____

Address: _____

City & State: _____

Name & Phone Number of Contact: _____ Years of Services: _____

3. Name: _____

Address: _____

City & State: _____

Name & Phone Number of Contact: _____ Years of Services: _____

QUALITY AND WORKMANSHIP

The bidder must be able to demonstrate upon request that it has satisfactorily performed services similar to the services specified herein. The bidder will provide records of warranty and repair services upon request by City. The City of Houston shall be the sole judge as to whether the services performed are similar to the scope of services contained herein and whether the bidder is capable of performing such services.

CONTRACT COMPLAINT:

The City reserves the right to monitor this contract to ensure that the contractor is providing the goods or services required in strict accordance contract specifications as well as complying with the contract terms and conditions.

Monitoring may take the form of, but not limited to:

- Inspection, testing, and/or sampling of goods delivered or to be delivered,
- Review of deliveries received for accuracy and timeliness,
- Review of Supplier's invoices for accuracy,
- Review of certifications and/or licenses, and
- Site visits.

The Contract Compliance Section of the applicable department(s) shall be responsible for contract compliance on this contract.

PRE-PERFORMANCE MEETING

Subsequent to contract approval/execution, the contractors shall be required to attend a pre-performance meeting. The Strategic Purchasing Division or the primary user department will host the pre-performance conference. The purpose of the pre-performance conference is for the contractor to introduce his or her project manager to the City staff and for City staff to introduce the contract end-users, contract compliance, and accounts payable representatives

SITE INSPECTION

The City of Houston reserves the right to inspect the bidder's current place of business to evaluate equipment condition and capabilities, staff experience, training and capabilities, and storage capabilities as they relate to the performance of this contract.

The Contractor and its subcontractor(s) shall be ready for the City's "Inspection Team" within 72 hours of a verbal or written notification from the City Purchasing Agent of designee.

All tools, equipment, and the qualified staff required to do the work specified by this contract shall be in place and fully operational and meeting these specifications during a "shop inspection" of the bidder's/contractor's repair facility and its subcontractors.

The Bidder/Contractor shall furnish the City Inspection Team valid documents indicating the facility meets the current OSHA, safety requirements, current EPA, and TCEQ requirements for air and water pollution as related to the equipment at the facility.

FAILURE OF THE BIDDER/CONTRACTOR TO SATISFY THIS REQUIREMENT OF THE CITY INSPECTION SHALL DISQUALIFY THE BIDDER/CONTRACTOR FROM FURTHER CONSIDERATION.

The bidders shall complete all bid forms associated with the GROUP (s) that the contractor wants to be considered. Any incomplete bid form or partial response of such group may disqualify the bidder from further consideration for that group.

SECTION B
SCOPE OF WORK/SPECIFICATIONS
DRY PIT PUMP MAINTENANCE, REPAIR AND REPLACEMENT SERVICES
FOR THE
PUBLIC WORKS & ENGINEERING DEPARTMENT

1.0 GENERAL REQUIREMENTS AND SCOPE OF SERVICES

- 1.1 The Contractor shall furnish all supervision, labor, parts, tools, materials, equipment, supplies, and facilities necessary to provide precision repair services for dry pit pumps at various City of Houston Wastewater and Drinking Water Operations facilities.
- 1.2 The meaning of some specific terms as used in this contract /specification is given in Exhibit A, Definitions.
- 1.3 The manufacturer, type, size, and the facilities location of the existing pumps of City of Houston's Wastewater and Drinking Water Operations are given in the Exhibits B1 and B2.
- 1.4 The dry pit pumps are grouped (see Exhibit A, Definitions) as Group-1, Group-2, Group-3, Group-4, Group 5 and Group 6 to indicate the manufacturer, size, and type of the units.
- 1.5 This specification covers the general requirements for the reconditioning, repairing, and testing of the pumps located at the City of Houston Wastewater and Drinking Water Operations Branch facilities. This includes, but it is not limited to, pumps, pump integral gearboxes, pump couplings, pump packing or mechanical seal, discharge check and isolation valves, pump control system, and general mechanical work. The specification defines minimum acceptable requirements for the repair of the pumps.
- 1.6 All test equipment required for test results shall be calibrated at least annually against standards traceable to the National Institute of Standards and Technology (NIST) or equivalent standards laboratories. The Contractor shall establish, document, and maintain calibration records for test and measuring equipment used to demonstrate conformance of product to specified requirements.
- 1.7 The Contractor shall be able to furnish copies of current environmental permits and demonstrate compliance with current environmental regulations.
- 1.8 The Contractor facility shall be subject to inspection to verify that the equipment and personnel deemed necessary to perform the type of repair required under this contract are in place at the time of inspection. (See Item 15.0 and 16.0 in Scope of Work/Specification).
- 1.9 Subcontractors to the Contractor for the performance of work are subject to the same standards as the contractor.
- 1.10 The pumps at City facilities are purchased and installed under City's Master Specifications (latest edition) at the time of procurement requiring compliance with the applicable sections of the following standards and codes:
 - 1.10.1 American National Standard Institute (ANSI)
 - 1.10.2 Anti-Friction Bearing Manufacturing Association (AFBMA)
 - 1.10.3 Institute of Electrical and Electronic Engineers (IEEE)
 - 1.10.4 National Electrical Code (NEC)
 - 1.10.5 National Electrical Manufacturers Association (NEMA)
 - 1.10.6 American Society of Mechanical engineers (ASME)

- 1.11 Wherever this document refers to the following codes and standards, that specific section of the code/standard shall apply to the repairs being carried out by the Contractor:
- 1.11.1 Steel Structures Painting Council (SSPC)
 - 1.11.2 Anti-Friction Bearing Manufacturing Association (AFBMA)
 - 1.11.3 American Society for Non-Destructive Testing
- 1.12 The installed pumps at City facilities and pumps to be purchased in the future are manufactured by the following (but not limited to) companies:
- 1.12.1 Positive Displacement Pumps
 - Moyno
 - Wemco
 - Goulds
 - Gorman-Rupp
 - 1.12.2 Centrifugal Pumps
 - ITT Allis - Chalmers
 - Fairbanks Morse
 - Chicago Yeoman
 - Paco
 - Ingersol Dresser
 - Worthington
 - Dean Brothers
 - Cornell
 - Demin
 - Finish Thompson
 - Floway
 - Met Pro Corp
 - Haywood
 - Franklin Miller
 - Weinman
 - Krogh
 - Peerless
 - KSB
 - Sewatec
 - Penn Valley
 - Aurora
- 1.13 The Contractor's price must be based on the use of new and original equipment manufacturer (OEM) parts in the repair of city's pumps.
- 1.14 All markups shall be based on part vendor's or sub-contractor's actual original invoiced documents. The contractor shall submit these actual original invoices, as attachments, with the invoice for payment to City for the work performed by the sub-contractor(s).
- 1.15 At Contractor's repair facility, the Contractor shall disassemble the unit, inspect it and prepare a scope of work to repair and replace parts with *new* OEM parts. The Contractor shall not charge time for "research", or time spent researching the availability and cost of parts, etc. required to complete the repair. The cost is considered as part of doing business.
- 1.16 If the Contractor plans to use any part other than an OEM specified part, the Contractor shall obtain, in advance to use such part(s), written permission/approval from UDR to use such part(s).

- 1.17 A City representative will pick up all non-repairable pumps. Non-repairable units do not need to be reassembled.
- 1.18 Whenever hourly work is performed on behalf of the City, the Contractor and/or its Sub-Contractors shall fully document the time spent on each job. The documentation shall be noted on the Contractor's time-sheet records or any other mutually agreed method indicating the Contractor's Job Number.
- 1.19 Contractor shall ensure the Equipment Inventory number (EI) tag remains attached to the equipment. Contractor shall notify the UDR if the (EI) tag is damaged or missing.
- 1.20 Wherever OEM documentation such as Operation and Maintenance Manual, etc., specify torque values, the Contractor shall use a torque wrench and adhere to the OEM torque values.
- 1.21 If requested by the UDR, Contractor shall furnish parts needed for maintenance activities of pumps by City Personnel. Contractor shall charge the same price for these parts as referenced in the fee and cost schedule (Exhibit "H") under "**Parts and Material.**"
- 1.22 Paint booth shall not be used for Sandblasting.
- 1.23 At Contractor shop, the Contractor shall document all information about the conditions of the unit and parts that shall include digital photographs.
- 1.24 The City reserves the right to pick up any and all parts that are quoted by the Contractor to be replaced. This includes, but is not limited to, seals, bearings, impeller, end plates, gears, and other items of a pump unit.
- 1.25 Before disassembly nameplate data shall be verified, all missing or damaged parts shall be identified in writing, recorded, and special items shall be noted on the inspection form.
- 1.26 Any equipment removed from City Facility shall be documented on a City Equipment Release Form (see Appendix B). The department requesting services shall provide the City Equipment Release Form. The user department shall revise the Form to reflect the Contract Number and Ordinance Numbers pertaining to this Contract.
- 1.27 The Contractor shall advise the City of the name(s) and location(s) of any new shop(s) that will be used for specific repair work and obtain written approval from the CTR before subcontracting the work.
- 1.28 All metal parts shall be checked for structural integrity and cracks, and shall be repaired or replaced as needed.
- 1.29 All repairs made shall bring the pumps to meet OEM's specifications
- 1.30 All illegible or defective nameplates shall be replaced on completion of repair. All original nameplate information, except where changed, shall be stamped on a new stainless or aluminum nameplate. New nameplates shall be permanently attached with mechanical fasteners. The cost of a new nameplate shall be included as a part of the base cost of any repair.
- 1.31 Contractor shall install a stainless steel identification tag stamped with the Contractor's Job Number and Repair Date to each pump housing. The tag shall be secured with stainless steel drive pins. The cost of the identification tag shall be included as a part of the base cost of any repair.
- 1.32 Before painting, all pumps with peeling paint or rust shall be sandblasted. The cost of sandblasting shall be included as a part of the base cost of any repair.

- 1.33 Assembled pump units shall be tested for vibration. The vibration level shall not exceed the level (in inches per second unfiltered) specified by the OEM. The vibration measurements shall be recorded on the final repair report. All costs associated with the test shall be included as a part of the base cost of any repair.
- 1.34 The enclosed City of Houston "Teardown" reports included in this document shall be used for each repair.
- 1.35 The repair shop must be able to verify all hours charged for machine work. This will apply to work done by the Contractor/Sub-contractors. In-house work will be supported with copies of time cards. This verification shall be submitted with the invoice.
- 1.36 The City reserves the right to review all payments made to the Contractor by auditing any and all documents associated with this contract at a later date. Subject to such audit, any overpayments shall be recovered by the City from the Contractor.
- 1.37 The Contractor shall be responsible for storage of the pump units and all parts. Any parts lost or damaged while in the possession of the Contractor shall be repaired or replaced at Contractor's expense.
- 1.38 The price of parts and material and cost of a replacement unit supplied for this contract shall be the total **original invoiced cost to the contractor plus percentage (%) markup specified in the Fee and Cost Schedule** (Exhibit "H") for the item. The Contractor shall submit the supporting documentations with the final invoice.
- 1.39 The Contractor who is an OEM Distributor/Shop shall use the OEM's latest list price **minus** the OEM Distributor/Shop's **discount percentage (%)** for the price of parts and material and cost of a replacement unit supplied for this contract. The **discount percentage offered** shall be equal or better than what the Distributor/Shop offers to their best customer within 50 miles from City Hall. The quoted discount percentage shall be subject to audit by the City.
- 1.40 The Contractor shall provide to the City a full set of repair record (including completed teardown sheets, work performed on the unit, and test run results including vibration levels at all bearings of the drive and the pump) upon completion of work, if requested by the UDR. The Contractor shall establish and maintain the repair records for at least three (3) years from the date the unit passed acceptance inspection and/or test.
- 1.41 All labor to perform teardown inspections, cleaning, and disassembly, sand blasting, balancing, reassembly, painting, shop testing, and documenting shall be included as labor/base price for the pump overhaul-repair.
- 1.42 The field time sheets should be signed daily by a City Representative at the facility location, if a City Representative is available. All time sheets shall be approved by the User Department Representative (UDR) on the last working day of each week.
- 1.43 The City shall be billed only for the hours the contractor works on City equipment whether at City facility or at Contractor's facility. Labor rate for work at a City facility shall cover the travel expense of the contractor. No itemized travel time is allowed.
- 1.44 The City desires a single contractor to do the work described in this contract documents, but may award to more than one Contractor by groups of pump units, as listed in (Exhibit A, Definition).

1.45 At a City location, all machinery and equipment that are undergoing maintenance and repair shall be locked-out/tagged-out (LOTO) to protect against accidental or inadvertent operation when such operation could cause injury to personnel or damage to equipment. Only authorized personnel, who may include qualified electricians, mechanics, and operators shall carry out LOTO.

2.0 REPAIR AND REPLACEMENT

2.1 The Contractor shall inspect, repair, and/or troubleshoot the pumps including accessories (sub-assemblies) of the pumps in lieu of replacement unless the repair cost of the pump and or sub-assemblies exceeds seventy (70) percent of the cost for replacing it with a new item. Generally the seventy (70) percent rule applies, but the City reserves the right to purchase or repair units based on pump economic evaluation and various operational considerations.

2.2 The Contractor shall attach quotes/invoices for User Department Representative (UDR) review when submitting scope of work. All major components such as impellers, shafts, gears, and gear assembly the repair scope of work shall include the cost of a new item as well as the estimated cost to repair such item. Every scope o work shall include the purchase price of a new pump identical to the one being repaired.

2.3 The Contract Technical Representative (CTR) must approve the purchase of a new unit in lieu of repair.

2.4 Replacement pump and accessories shall be same size and type as the existing ones, unless otherwise authorized in writing by the Contract Technical Representative (CTR).

2.5 If the unit is **considered to be “non-repairable”**, the Contractor shall use the “Non-Repairable Shop Cost” to invoice for the work performed by the Contractor to include all costs associated with teardown, reports, and diagnostic as outlined in Fee and Cost Schedule (Exhibit “H”).

2.6 Contractor shall use the “Cost to Replace a Unit”, as outlined in fee and Cost Schedule (Exhibit “H”) to invoice the replacement cost.

3.0 SPECIFIC TASKS AND SCOPE OF WORK

3.1 Upon request from the User Department Representative (UDR) and within one working day the contractor shall inspect the pump at the Wastewater or Drinking Water Treatment facility. If repairs can be performed at City facility at the time of inspection, the Contractor shall do the needed repair and release/return the unit to operation.

3.2 Upon request from the “UDR” and within one working day the contractor shall send a crew to perform the field alignment of the pump and the drive of the unit where the City personnel had re-connected drive unit.

3.3 If the pump can be repaired at City location but additional parts and services are needed, the Contractor shall notify the “UDR” and prepare a scope of the work within forty-eight (48) hours and submit it to the User Department Representative “UDR” for approval. The Contractor, upon receipt of approval, shall complete the repair of the pump within five (5) working days and release/return the unit to operation.

3.4 If the pump cannot be repaired at City location, the Contractor shall notify the “UDR”. Within forty-eight (48) hours, the Contractor shall uncouple the unit from the drive, remove from foundation, and load on Contractor’s vehicle, and transport/deliver the unit to contractor’s repair facility. The Contractor shall ensure that all openings to pipes, inlet and discharge are blocked to prevent entry of rain, dirt, rodents, birds, and crawling animals. The covers for the openings shall be made of metal or plywood of sufficient thickness, strength, rigidity, and shall be secured to resist damage by wind and rainstorm.

- 3.5 The Contractor shall furnish hoist, crane, etc. for loading and unloading of the unit at City facilities and at Contractor's facility.
- 3.6 Before disassembly of the unit at Contractor's shop, the Contractor shall inspect the unit and document the damaged and missing parts. In addition, the Contractor shall photograph the pump and sub-assemblies, as received. These photographs and any subsequent photographs of the pump and its parts shall be part of the repair record.
- 3.7 The Contractor shall chemically and mechanically clean all external surfaces, as required.
- 3.8 The Contractor shall disassemble pumps and clean all internal parts.
- 3.9 The Contractor shall inspect all components of the pumps and all critical areas to determine if clearances are within OEM tolerances, and the parts meet manufacturer's specifications. If the manufacturer's data is not available, the tolerances shall be verified with the relevant tables in industry standards to assure its conformance.
- 3.10 If needed, the City will assist the Contractor to obtain the OEM data from the manufacturers.
- 3.11 The Contractor shall inspect the pumps and its shaft for corrosion, erosion, chipping, and other damages and shall record these observations on the "Teardown" report.
- 3.12 The Contractor shall inspect the rotor shaft for "roundness run-out" and determine if it is within OEM tolerance. If the manufacturer's data is not available, the tolerances shall be verified with the relevant tables in industry standards to assure its conformance.
- 3.13 The Contractor shall inspect the shaft extensions and key seats (keyways). Shaft extensions must be smooth, polished, and concentric with shaft center. Shaft extension dimension shall be checked to determine if it is within OEM tolerance. If the manufacturer's data is not available, the tolerances shall be verified with the relevant tables in industry standards to assure it conformance.
- 3.14 Contractor shall inspect each bolt for damaged threads.
- 3.15 Repair shall include sandblasting, welding and machining as required. Other services required of Contractor shall include Non-Destructive Testing (NDT), chroming and metalizing when required.
- 3.16 Contractor shall determine what parts are to be machined or replaced with new parts. At a minimum the Contractor shall replace all roller element bearings and seals when the original pump was furnished with such items.
- 3.17 For Units, which are being repaired at Contractor's facility, the Contractor shall prepare and submit, within ten (10) working days, to the User Department Representative (UDR) a good faith of the repair work to be carried out on the pump. This good faith estimate shall include a brief description of the work to be performed, itemized cost for new replacement OEM parts, and any additional labor hours beyond what is required and specified in item 4.0 of scope of work (Pump Inspection and Repair), for the repair of the unit. This scope of work shall include the estimated time for delivery of parts and the schedule to complete the work.
- 3.18 Upon acceptance of cost estimate by the UDR, Contractor shall proceed with repairs. The Contractor shall commence to work on the unit and complete the repair within the allocated time for delivery of such item:
 - 3.18.1 Positive Displacement Pumps 8 weeks
 - 3.18.2 Centrifugal Pumps 8 weeks

- 3.19 The Contractor shall notify the User Department Representative (UDR) immediately if the Contractor cannot complete the job within the contractually agreed time period as specified in item 3.18 of scope of work. The Contractor shall submit to User Department Representative (UDR) in writing a detailed explanation for the delay with a new schedule to complete the job.
- 3.20 At all times during the repair process, the Contractor shall maintain City's equipment in a clean and weather protected storage area.
- 3.21 The shaft assembly shall be checked for total indicated run out (TIR) and recorded on the rotor information sheet. This test shall be carried out on a lathe.
- 3.22 Shaft seal surface, bearing journals and coupling fit, shall be micrometer checked and recorded on the rotor information sheet.
- 3.23 End bells and bearing housing critical dimensions shall be micrometer checked and recorded on the mechanical inspection sheet.
- 3.24 The above measurements shall be submitted to the User Department Representative (UDR), along with other data sheets, during the teardown inspection.
- 3.25 When non-OEM parts are approved for replacement bearings shall have an L₁₀ rating life in accordance with ANSI/AFBMA equal to or longer that of the OEM bearing.
- 3.26 After parts have been repaired, the Contractor shall put together the rotating assembly and balance it. The Contractor shall reassemble the pump, test, seal and paint, as required.
- 3.27 The Contractor shall prepare the surfaces to be painted to white a "metal finish" by blast cleaning to SSPC-SP5.
- 3.28 Surface of all units shall be primed and finished, in an approved paint booth, using the pump OEM standard painting system:
 - 3.28.1 The minimum Prime coat thickness shall be 3 mils DFT, **dry film thickness (DFT)**.
 - 3.28.2 The minimum finish coat thickness shall be 6 mils DFT, **dry film thickness (DFT)**.
- 3.29 If OEM paint information is not available, the following City standard specification for surface coating of pumps and equipment shall be followed:
 - 3.29.1 The primer and finish coats shall be two-component, rust-inhibitive, polyamide-cured epoxy coating with a recoat able finish,
 - 3.29.2. The prime coat shall be Ameron 38P, Tnemec 69, or equal.
 - 3.29.3 The finish coat shall be Ameron 38S, Tnemec 69, or equal.
- 3.30 No deviation from the paint specification is allowed, unless advance written approval for variance to paint specifications was given by the User Department Representative (UDR).
- 3.31 The paint color shall be as the OEM standard for such units unless specifically requested otherwise, in written, by the User Department Representative (UDR).
- 3.32 The Contractor shall return the repaired unit to a City facility, set on foundation, check the leveling of the pump base, couple, precision align the drive / pump / coupling, and reconnect piping. The Contractor shall ensure that all shutdown systems/protections are operational before the test run.

- 3.33 If requested by the User Department Representative (UDR), the Contractor shall couple, precision align the drive, pump and coupling of the units which had their drive replaced by the City personnel. The charge for this service will be based on the unit price as quoted in Fee and Cost Schedule (Exhibit "H") for the Pump Group.
- 3.34 The Contractor shall start the unit. The Contractor shall measure/record the vibration of the pump and the drive at DE and ODE in axial, vertical, and horizontal directions.
- 3.35 The vibration levels shall be as specified by the OEM. If needed, the City will assist the Contractor to obtain the OEM data from the manufacturers.
- 3.36 The final alignment shall be made at the end of the test run when the pump and the drive have reached their operating temperatures. Alignment shall be adjusted, as required, before placing the unit into permanent service.

4.0 Pump Inspection and Repair

- 4.1 The Contractor shall provide a repair record and report showing the condition of the pump upon receipt, the repair work done, vibration levels, and the final test results.
- 4.2 During disassembly, the pump components and parts shall be visually inspected to determine and record/report the cause of failure.
- 4.3 The shaft assembly shall be inspected for wear, scoring, cracks.
- 4.4 Shaft seal surface, bearing journals and coupling fit, shall be checked with a micrometer and recorded on the rotor information sheet.
- 4.5 Pumps that are overhauled-repaired at the Contractor facility shall be thoroughly cleaned to be free from dirt, grit, grease, oil, and shall be inspected for damage and repairs made to damaged areas.
- 4.6 Torch heating shall NOT be used for clean up.
- 4.7 The grit blasting shall be done with approved material.
- 4.8 **Overhaul Repair, at the Contractor's Facility:** The following work items shall be performed as part of the overhaul repair of the pump. All bearings shall be replaced with new OEM specified bearings that have an L₁₀ rating life as the original OEM or longer in accordance with ANSI/AFBMA. Equivalent bearing may be used if approved by the User Department Representatives (UDR) in writing. The fee and cost schedule (Exhibit "H") price of the for overhaul-repair at the Contractor's facility of a pump shall include all cost of supervision, labor, tools, equipment, supplies to complete the work specified herein for Shop-Repair. The **UNIT PRICE** does not include the cost of the bearings, damaged or broken or worn parts (which are reimbursable) if replacements were authorized by the User Department Representatives (UDR).
 - 4.8.1 Positive Displacement Pumps:
 - 4.8.1.1 Disassemble the pump.
 - 4.8.1.2 Sandblast and clean all parts as needed, inspect all parts.
 - 4.8.1.3 Chase all tapped holes and de-burrs and inspect.
 - 4.8.1.4 Re-chrome the rotors.
 - 4.8.1.5 Clean and de-burr the bearing housing and hone all faces.
 - 4.8.1.6 Clean and de-burr the shaft and check for straightness.

- 4.8.1.7 NDT check impellers for cracks, balance impellers, balance shaft, check mechanical run outs, and balance rotor assembly.
- 4.8.1.8 Replace packing glands when bent or damaged.
- 4.8.1.9 Replace mechanical seal with OEM specified mechanical seal.
- 4.8.1.10 Paint the assembled unit.
- 4.8.2 Centrifugal Pumps:
 - 4.8.2.1 Disassemble the pump.
 - 4.8.2.2 Sandblast and clean all parts, chase all tapped holes and de-burr, and inspect.
 - 4.8.2.3 Clean case and cover.
 - 4.8.2.4 NDT gear teeth, check mechanical run outs.
 - 4.8.2.5 Clean and de-burr the bearing housing and hone all faces.
 - 4.8.2.6 Clean and de-burr the shaft and check for straightness.
 - 4.8.2.7 NDT check impellers for cracks, balance impellers, balance shaft, rotor assemblies.
 - 4.8.2.8 Check drive shaft repair when needed.
 - 4.8.2.9 Replace packing glands when bent or damaged.
 - 4.8.2.10 Replace mechanical seal with OEM specified mechanical seal.
 - 4.8.2.11 Replace wear ring when damaged and needed.
 - 4.8.2.12 Paint the assembled unit.

5.0 Response Time:

- 5.1 The Contractor shall be accessible to the City via telephone during normal business hours, 7:00 A.M. – 4:00 P.M., Monday through Friday, excluding weekends and City Holidays. The Contractor shall be ready to start work on any unit within twenty-four (24) hours of receiving the call for the service.
- 5.2 The Contractor shall be available and accessible to the City via telephone to work overtime if requested by the User Department Representative (UDR).
- 5.3 The Contractor shall be available and accessible to the City via telephone to work on an emergency basis if requested by the User Department Representative (UDR).
- 5.4 The Contractor shall start an emergency job immediately, without scheduling delays, and will not be restricted to normal working hours. The User Department Representative (UDR) shall coordinate the emergency and overtime work.

6.0 Acceptance of Repair

- 6.1 The User Department Representative (UDR) shall inspect the repaired unit before the run test can begin. It is the Contractor's responsibility to ensure communication has been established with the User Department Representative (UDR) for witnessing of the performance test.
- 6.2 The vibration measurements shall be taken on the complete assembled unit at the DE and ODE, horizontal, axial, and vertical directions on the bearing housings adjacent to the shaft. The measurements shall be performed and recorded for the drive as well as the pump.
- 6.3 After the unit has run continuously for at least four hours, the Contractor shall measure/record the vibration and temperatures level that are specified by the OEM.
- 6.4 If deficiencies are detected, the repair work shall be rejected and the contractor shall make the necessary repairs, adjustments or replacements.
- 6.5 After corrective actions are made, the unit shall go through a new test run before the pump is accepted.
- 6.6 The repair record and report covering teardown report, photographs of the condition of the pump, specific measurements, and tests such as balancing of rotating elements, vibration measurements, mechanical measurements, temperature readings and others shall be kept for three years by the Contractor, and shall be furnished to the City if requested by the User Department Representative (UDR).
- 6.7 The City shall NOT make any payment to the Contractor until ALL corrective actions are made and the equipment repair is accepted.
- 6.8 DISINFECTION OF PUMPS (*DRINKING WATER OPERATIONS*) FOR POTABLE WATER SERVICE: PRIOR TO PACKAGING AND PREPARATION FOR RETURN TO THE CITY, ALL REPAIRED OR REPLACED PUMPING EQUIPMENT OR RELATED PARTS SUPPLIED OR OTHERWISE HANDLED OR MANIPULATED UNDER THIS CONTRACT - THE SURFACES OF WHICH (INTERIOR AND EXTERIOR) WHICH WILL BE IN DIRECT CONTACT WITH POTABLE WATER UPON RETURN TO THE CITY - SHALL BE CLEANED, SWABBED WITH A 1% HYPOCHLORITE SOLUTION (CONTACT TIME 10-30 MINUTES), AND THEN THOROUGHLY RINSED WITH POTABLE WATER AFTER COMPLETION OF CONTRACT REPAIRS AND/OR HYDRAULIC OR HYDROSTATIC TESTING. A SEPARATE CERTIFICATE OF DISINFECTION COMPLETION, SIGNED BY THE RESPONSIBLE CONTRACTING AUTHORITY, SHALL ACCOMPANY ALL AFFECTED PARTS AND/OR EQUIPMENT.

7.0 Silence of Specifications:

- 7.1 The apparent silence of these specifications as to any detail, or apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only the best commercial practice is to prevail and that only material and workmanship of the highest quality be used. All interpretations of these specifications shall be made on the basis of this statement.

8.0 Labor Rate:

- 8.1 The labor rate shall include all cost associated for the qualified person to work on and repair City equipment including wages paid, all company benefits, transportation, company profits. Other overheads.

9.0 Additional Services:

- 9.1 Prior to commencement of any "Additional Services," the Contractor shall submit a written proposal for approval by the User Department Representative (UDR) and the Contractor Technical Representative (CTR) describing the work to be done and include a good faith estimate of the cost. The proposal shall include as a minimum a list of repairs, sub-contractor(s), and a schedule of the repairs.
- 9.2 The Contractor shall perform "Additional Services" using the unit rates in the Fee and Cost Schedule (Exhibit "H") as specified for the type of service provided. If the Fee and Cost schedule (Exhibit "H") do not cover the work the Contractor shall be paid on the reimbursable cost-plus basis, supported by documentations. Timing of any "Additional Services" shall be mutually agreed upon between the UDR/CTR and the Contractor.
- 9.3 All hourly labor charges shall require timesheet backup to be paid. City will not pay for lunch; One (1) hour shall be deducted FOR EACH EMPLOYEE SHOWN WORKING PAST 1300 HOURS ON EACH TIMESHEET.
- 9.4 All field rate hourly work sheets that serve as written documentation of time and personnel on the job shall require the signatures of a City representative (UDR, plant operator, ETC.) UPON ARRIVAL AND DEPARTURE to confirm the crew's time ON THE JOB.

10.0 Warranties

- 10.1 Definitions: "Acceptance" as used in this clause, means the act of an authorized representative of the City by which the City assumes for itself, approval of specific services as partial or complete performance of the contract.

"Correction" as used in this clause, means the elimination of a defect.
- 10.2 Notwithstanding inspection and acceptance by the City or any provision concerning the conclusiveness thereof, the Contractor warrants that all services performed under this contract will, at the time of acceptance, be free from defects in workmanship and conform to the requirements of this contract. The City shall give written notice of any defect or nonconformance to the Contractor within a one-year period from the date of acceptance by the City. This notice shall state either (1) that the Contractor shall correct or re-perform any defective or non-conforming services at no additional cost to the City, or (2) that the City does not require correction or re-performance.
- 10.3 If the Contractor is required to correct or re-perform, it shall be at no cost to the City, and any services corrected or re-performed by the Contractor shall be subject to this clause to the same extent as work initially performed. If the Contractor fails or refuses to correct or re-perform, the City may, by contract or otherwise, correct or replace with similar services and charge to the Contractor the cost occasioned to the City thereby, or make an equitable adjustment in the contract price.
- 10.4 If the City does not require correction or re-performance, the City shall make an equitable adjustment in the payment due to the contractor.
- 10.5 The Contractor shall observe the highest standards of diligence and care in the performance of repair services and shall meticulously follow the standards and procedures required by the equipment manufacturer.
- 10.6 The Contractor further warrants that all service and replacement parts it provides shall be in strict compliance with all applicable regulations.
- 10.7 A minimum full warranty of 12 months is required upon completion of repair services. The warranty period shall begin after satisfactory four-hour test run and the day the City officially accepts the repaired unit.

10.8 During the warranty period all related work shall be started by the Contractor within twenty-four (24) hours after notification and shall be completed within fifteen (15) days. If the unit undergoing warranty work is out of service more than fifteen (15) days over the twelve (12) month warranty period, the warranty period shall extend by the number of days the unit has been out of service for warranty repair.

10.9 During the warranty period all failed units shall be re-repaired at the Contractor's expense if failure occurs under normal operating conditions or if the failure is due to faulty parts or negligence of the Contractor.

11.0 Invoices:

Contractor shall submit invoices for payment in triplicate (one original and two copies) that are on Contractor's company stationary with the original signed by an authorized agent of the company. The invoice number shall not be duplicated during the term of the contract periods. Each invoice shall detail the following information:

11.1 The City Contract, City Ordinance, City Organization, City Equipment (EI), City Purchase Order, City Work Order, and Contractor's Job, and Service Release Order (SRO) numbers.

11.2 The Contractor's Job Number shall appear clearly on all time sheets, invoices, and suppliers' Invoices.

11.3 The Contract Year shall appear clearly on the all time sheets, invoices, and suppliers' invoices.

11.4 The Contractor's name and address, and where the service was performed.

11.5 The Contractor shall provide the City Facility number and address where equipment had been prior to repairs.

11.6 Provide the City Facility Number and address where equipment was delivered to after repairs.

11.7 Teardown Repair Form and Repair Scope.

11.8 Cost Estimate Form with detailed description of services rendered.

11.9 Description of parts or components repaired or replaced. Provide Part Numbers listing before and after discount. If parts are OEM reconditioned, the costs to recondition parts must be listed as well as the cost of new OEM parts.

11.10 Detailed invoices of Subcontractors with description of work performed, hours, and total cost.

11.11 Detailed cost of Labor (labor hours and rates as quoted in Bid Forms) for in-house work.

11.12 Subtotal the costs for parts and labor separately.

11.13 Clearly indicate the cost of the repair of the unit as a percentage of cost for a new unit.

11.14 City delivery and pickup tickets

11.15 Final Acceptance Tests Form

11.16 All unit prices for labor and parts shall be easily identified against the quoted contract pricing.

11.17 Total cost for the job.

11.18 Mail invoices to the address within 30-days of completion of repairs or replacement of pumps pertaining to the work order.

Mail invoices to::
Public Works and Engineering Department
Accounts Payable
P.O. Box 61449
Houston, Texas 77208-1449

12.0 Additions & Deletions:

The City, by written notice from the City Purchasing Agent to the Contractor, at any time during the term of this contract, may add or delete like or similar equipment, supplies, locations and/or services to the list of equipment, supplies, locations, and/or services to be provided. Any such written notice shall take effect on the date stated in the notice from the City. Similar equipment, supplies, services, or locations added to the contract shall be in accordance with the contract specification/scope of services, and the charges or rates for items added shall be the same as specified in the fee schedule. In the event that the additional equipment, supplies, locations and/or services are not identical to the item(s) already under contract, the charges therefore will then be the Contractor's normal and customary charges or rates for the equipment, supplies, locations and/or services classified in the fee schedule.

13.0 Estimated Quantities not Guaranteed

The estimated quantities specified herein are not a guarantee of actual quantities, as the City does not guarantee any particular quantity of dry pit pumps repair services during the term of this contract. The quantities may vary depending upon the actual needs of the user Department. The quantities specified herein are good faith estimates of usage during the term of this contract. Therefore, the City shall not be liable for any contractual agreements/obligations the Contractor enters into based on the City purchasing/requiring all the quantities specified herein.

14.0 Minimum Wage:

- 14.1 Contractor shall at least pay all employees the Federal minimum hourly wage rate while working under this Contract.
- 14.2 If, during the term of this agreement, there is legislation enacted regarding an increase or increases in the minimum wage law, Contractor may submit a request (s) for increase in the Contract Fees to the City Purchasing Agent for consideration, provided such request is accompanied by documentation as requested by the City Purchasing Agent verifying that only Contractor's employees' salaries* were increased accordingly. The City Purchasing Agent shall consult with the Director before responding to the request.

Appendices: A-Field Inspection Form
B-Equipment Release Authorization Form
C-Teardown and Recommended Repair Report Form
D-Recommended Repair Estimate Form
E-Progress and Status Report Form

15.0 CONTRACTOR'S FACILITY AND INSPECTION

- 15.1 The City intends to inspect the work on its equipment during the course of its repair. This facility shall be equipped to provide the services specified and shall be staffed with qualified personnel.

- 15.2 The successful Contractor shall satisfy the City by maintaining a repair facility to allow monitoring and inspection of the Contractor's work by User Department Representative (UDR) and/or Contract Technical Representative (CTR), or City of Houston designee. The successful Contractor shall maintain a repair facility within Houston Metropolitan Area, to allow for delivery, pickup, monitoring and inspection of dry pit pumps at the Contractor's location (workplace) by City of Houston Personnel. All sub-contractors' shops shall also be located within the Houston Metropolitan Area. The City of Houston will monitor the repair of its dry pit pumps on regular basis. **Additional, These REQUIREMENT SHALL APPLY TO ALL SUB-CONTRACTORS THAT WILL PERFORM WORK RELATED TO THIS CONTRACT FOR THE CONTRACTOR.**
- 15.3 The facility shall meet all Federal, State, and Local Building Codes, regulations of the City of Houston Fire Department and/or local regulations, ordinances, codes, and standards which ***govern such facilities and the equipment therein.***
- 15.4 The facility shall have an area designated as **storage area** for safe storage of the dry pit pump(s) under repair, pump components, and the repaired pump(s) awaiting shipment. This area shall be weather- protected and isolated from teardown, sandblasting, steam cleaning and similar sources of contaminants that could damage the components or the pump(s). The parts and pump assemblies shall be kept off the ground.
- 15.5 The facility shall have an area designated as **teardown area**. The teardown area shall be weather-protected and isolated from storage and assembly areas.
- 15.6 The facility shall have an area designated as "**assembly area**." The assembly area shall be weather protected and isolated from tear-down, sandblasting and similar contaminants that could cause damage to the components or the pump assemblies.
- 15.7 The facility shall have all the necessary overhead cranes and/or "**jib**" cranes to handle the pumps equipped with lifting eyes, or similar factory lifting points throughout the repair process. This applies to the Contractor's shop as well as subcontractors' worksite.
- 15.8 The facility shall have precision V-Blocks or be capable of subcontracting to check the largest size rotor assembly for roundness and run-out, if required. The checking shall be performed using dial indicators.
- 15.9 The facility shall have **balancing machine(s)** to perform dynamic balancing of the largest size rotor assembly. The machine(s) shall provide a printout of the values of "before" and "after" balancing. This equipment may be at the Contractor's shop or at a sub-contractors worksite.
- 15.10 The facility shall have adequate access for City of Houston vehicles to enter, load, and exit safely without exposing the operator of the vehicle to danger, such as backing in traffic lanes, and crossing medians. This applies to the Contractor's shop.
- 15.11 Each instrument and testing equipment shall bear record of recent calibration. This applies to the Contractor's shop as well as subcontractors' worksite.
- 15.12 The Contractor shall provide a smoke-free environment for the City Inspector to check the job progress and observe the test-run. This applies to the Contractor's shop as well as sub-contractors' worksite.
- 16.0 REPAIR TECHNICIANS**
- 16.1 The repair technicians of the Contractor shall be qualified, properly trained in the repair/recondition of pumps of the type and sizes specified for this contract.

- 16.2 The repair technicians of the Contractor shall have a minimum of three (3) years experience in repair/recondition of pumps of the Group and sizes specified in this contract
- 16.3 THE CONTRACTOR SHALL FURNISH THE RESUME OF THE TECHNICIANS TO THE CITY INSPECTION TEAM DURING THE TEAM'S INITIAL VISIT TO THE CONTRACTOR'S FACILITY. ADDITIONALLY SUBMIT THE RESUME (S) OF NEW TECHNICIANS HIRED DURNING THE DURATION OF THIS CONTRACT.
- 16.4 These requirements shall apply to all of the sub-contractors who work for the Contractor.

END OF SECTION

Appendix "A"

Field Inspection Form

City of Houston

Public Works & Engineering Department

DRY PIT PUMP MAINTENANCE, REPAIR AND REPLACEMENT SERVICES

Sample Only, Actual Form is subject to change by CTR after Award of the contract

Contractor: _____ Contractor Job #: _____

Contract # _____ Ordinance#: _____ City Work Order #: _____

City Facility Name: _____ City Facility#: _____ EI #: _____

Nameplate Information:

Make:			
Model:			
Serial:			

Visual Inspection Comments and Deficiencies:

Field Repairs:

Standard Electronic Test: _____

Standard Mechanical Test _____

Field Testing and Certification Results:

Tests Performed By: _____ Job Title: _____ Date: _____

Witnessed By UDR: _____ Job Title: _____ Date: _____

Appendix "B"

**Equipment Release Authorization Form
City of Houston
Public Works & Engineering Department
DRY PIT PUMP MAINTENANCE, REPAIR AND REPLACEMENT SERVICES
Sample Only, Actual Form is subject to change by CTR after Award of the contract**

RELEASE #: _____

DATE: _____

CITY WORK ORDER #: _____

CITY FACILITY NAME: _____ CITY FACILITY#: _____ EI #: _____

CONTRACTOR: _____ CONTRACTORJOB#: _____

CONTRACTOR ADDRESS: _____

CONTRACT #: _____

ORDINANCE #: _____

NAME PLATE INFORMATION:

MAKE:	VOLT:	HP:	RPM:
MODEL:	AMP:	HZ:	SF:
SERIAL:			

REASON FOR THE PULLING OF THE DRY PIT PUMP:

NAME OF THE SHOP THE EQUIPMENT IS BEING TAKEN TO:

IS THERE A PICTURE (S) OF THE DRY PIT PUMP ATTACHED?

YES: _____ No: _____

CONTRACTOR REPRESENTATIVE

CITY OF HOUSTON REPRESENTATIVE

NAME: _____

NAME: _____

EMPLOYEE #: _____

SIGNATURE: _____

SIGNATURE: _____

EMPLOYEE NUMBER: _____

EMPLOYEE #: _____

COMMENTS: _____

Appendix "D"

Recommended Repair Estimate Form

City of Houston

Public Works & Engineering Department

DRY PIT PUMP MAINTENANCE, REPAIR AND REPLACEMENT SERVICES

Sample Only, Actual Form is subject to change by CTR after Award of the contract

Contract #:	City Work Order #:
Ordinance #:	Contractor Job #:
City Facility:	Facility #:
Dry Pit Pump Information:	
Manufacturer:	Work Notification Date:
Model #:	Field Inspection Date:
Serial #:	Equipment Pull Date:
El#:	Estimate Date:

UNIT PRICE ITEMS:	Unit	Extended
Item 1 - Prepare for Removal – Each	1.00	
Item 2 - Transport to Shop – Each	1.00	
Item 3 - Return to City – Each	1.00	
Sub-Total Unit Price Items		

COST PLUS ITEMS:	<u>Contract</u>	<u>Extended</u>
	<u>Cost</u> <u>Mark Up</u>	<u>Price</u>
Item 4 -	1.**	
Item 5 -	1.**	
Item 6 - Work by Sub-contractor (see Original invoices)	1.**	
Item 8 - Parts: (see parts Original Invoices)	1.**	
Item 9 - Rented Crane/Rigging	1.**	
Sub-Total Cost Plus Items		

Additional Services (see worksheet):

Total Estimated Project Costs

Total Estimated Dry Pit Pump Unit Repair Only

Replacement Cost of an Identical Unit

I. Repair Cost Expressed as % of Replacement Cost

Repair Estimate Prepared By: Print Name: Signature: Date:

Repair of Dry Pit Pump Unit Approved by City of Houston UDR: Print Name: Signature: Date:

Replacement of Dry Pit Pump Unit Approved By City of Houston CTR: Print Name: Signature: Date:

Appendix "E"
Progress and Status Report Form
City of Houston
Public Works & Engineering Department
DRY PIT PUMP MAINTENANCE, REPAIR AND REPLACEMENT SERVICES
Sample Only, Actual Form is subject to change by CTR after Award of the contract

Release Number	Work Order #	Work Order Date	E.I. #	Facility #	Facility Name	Manufacture	Model #	Serial #	Problem	Inspect Date	Test Date	Person Called Date	Allocated Amount	Cost Of Repair	Expended To Date
													\$	\$	\$

**EXHIBIT B1
LOCATIONS OF DRY PIT PUMPS
FOR
WASTEWATER OPERATIONS**

WASTEWATER OPERATIONS DRY PIT PUMPS								
GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)								
< 25HP								
Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
ITT A-C	189	SOUTHEAST WWTP		BP1	2000	B6Y210381		3
ITT A-C	189	SOUTHEAST WWTP		BP2	2000	B6Y210375		3
ITT A-C	116	KNOX	Dry Pit / Wet Pit	1	6X6X12SC / 300	205713-01-02	880	5
ITT A-C	116	KNOX	Dry Pit / Wet Pit	2	6X6X12SC / 300	205713-01-01	880	5
GOULDS	190	SOUTHWEST WWTP		PW1	3758S			5
GOULDS	190	SOUTHWEST WWTP		PW2	3756S			5
GOULDS	190	SOUTHWEST WWTP		PW3	3756S			5
WORTHINGTON	400	69THWWTP		WS2C	3FNC-10	79TP90333-1		7.5
WORTHINGTON	400	69THWWTP		WS2C/D	3FNC-10	79TP90332-2		7.5
WORTHINGTON	400	69THWWTP		WS2D	3FNC-10	79TP90333-3		7.5
WORTHINGTON	400	69THWWTP		WS2E	3FNC-10	80TP90542-2		7.5
WORTHINGTON	400	69THWWTP		WS2E/F	3FNC-10	80TP90542-3		7.5
WORTHINGTON	400	69THWWTP		WS2F	3FNC-10	80TP90541-2		7.5
WORTHINGTON	400	69THWWTP		WS2B	3FNC-10	79TP90333-2		7.5
WORTHINGTON	400	69THWWTP		WS2A/B	3FNC-10	79TP90332-1		7.5
WORTHINGTON	400	69THWWTP		WS2A/B	3FNC-10	79TP90332-3		7.5

WORTHINGTON	400	69THWWTP		WS2G	3FNC-10	80TP90541-1		7.5
WORTHINGTON	400	69THWWTP		WS2G/H	3FNC-10	80TP90542-1		7.5
WORTHINGTON	400	69THWWTP		WS2H	3FNC-10	80TP90541-3		7.5
WORTHINGTON	400	69THWWTP		NPW	3FNC-10	91TP92296-1		7.5
ALLIS CHALMERS	016	BISSONNET #1	Dry Pit / Wet Pit	2	300	1-86559-1-1	695	10
ITT A-C	108	HUDSON CT.	Dry Pit / Wet Pit	3	300	229412-03-02	1170	10
ITT A-C	108	HUDSON CT.	Dry Pit / Wet Pit	2	300	229412-03-03	1170	10
ITT A-C	108	HUDSON CT.	Dry Pit / Wet Pit	1	300	229412-03-01	1170	10
ITT A-C	114	KIRBY DRIVE #1	Dry Pit / Wet Pit	1	F73D		865	10
ITT A-C	114	KIRBY DRIVE #1	Dry Pit / Wet Pit	2	F73D		865	10
GOULDS	286	UPPER BRAES WWTP		GRIT 1	HSD4X4X12	M33326	880	10
GOULDS	286	UPPER BRAES WWTP		GRIT 2	HSD4X4X12	M33325	880	10
GOULDS	286	UPPER BRAES WWTP		GRIT 3	HSD4X4X12	M33324	3600	10
ALLIS CHALMERS	238	INT. AIRPORT WWTP		NPW #1		871-39865-01-2		15
ALLIS CHALMERS	238	INT. AIRPORT WWTP		NPW #2		871-39865-01-1		15
ALLIS CHALMERS	270	NORTHGATE WWTP		LP #1				15
ALLIS CHALMERS	397	METRO CENTRAL WWTP		RAS #1	NSWV-300	87139629-	575	15
ALLIS CHALMERS	397	METRO CENTRAL WWTP		RAS #2	NSWV-300	87139629-	575	15
ALLIS CHALMERS	397	METRO CENTRAL WWTP		RAS #3	NSWV-300	87139629-	575	15
ALLIS CHALMERS	400	69THWWTP		TKNR4				15
ALLIS CHALMERS	400	69THWWTP		TKNR5				15
ALLIS CHALMERS	400	69THWWTP		TKNR6	150			15
ALLIS CHALMERS	400	69THWWTP		TKNR7	150			15
ALLIS CHALMERS	400	69THWWTP		TKNR8	150			15
ITT A-C	400	69THWWTP		TKN4R1	150			15

ITT A-C	400	69THWWTP		TKNR2	150			15
ITT A-C	400	69THWWTP		TKNR3	150			15
ITT A-C	603	RUNNELS	Dry Pit / Wet Pit	1	250	2546997-1	1165	15
ITT A-C	603	RUNNELS	Dry Pit / Wet Pit	2	250	2546997-2	1165	15
ITT A-C	603	RUNNELS	Dry Pit / Wet Pit	3	250	2546997-3	1165	15
ITT A-C	189	SOUTHEAST WWTP		NPW1	B042A	UJ15S1AFP		15
ITT A-C	189	SOUTHEAST WWTP		NPW2	B042A	UJ15S1AFP		15
ITT A-C	189	SOUTHEAST WWTP		NPW3	B042A	UJ15S1AFP		15
ITT A-C	315	NORTH BELT	Dry Pit / Wet Pit	1	250	241C800-3	1200	20
ITT A-C	315	NORTH BELT	Dry Pit / Wet Pit	2	250	241C800-2	1200	20
ITT A-C	315	NORTH BELT	Dry Pit / Wet Pit	3	250	241C800-2	1200	20
ITT A-C	033	WOODWAY #2	Dry Pit / Wet Pit	3	8X6X12SC	97-229412-01-03	1165	20
ITT A-C	033	WOODWAY #2	Dry Pit / Wet Pit	1	8X6X12SC	97-229412-01-01	1165	20
ITT A-C	033	WOODWAY #2	Dry Pit / Wet Pit	2	8X6X12SC	97-229412-01-02	1165	20
ITT A-C	512	CHESTNUT RIDGE	Dry Pit / Wet Pit	2	230	237722-01-02	1180	20
ITT A-C	512	CHESTNUT RIDGE	Dry Pit / Wet Pit	1	230	237722-01-01	1180	20
GOULDS	183	SIMS BAYOU WWTP		TP7125	6100.3X3-16	M34703	675/108	20/8.89
GOULDS	183	SIMS BAYOU WWTP		TP7126	6100.3X3-16	M34704	675/108	20/8.89
GOULDS	183	SIMS BAYOU WWTP		TP7127	6100.3X3-16	M34705	675/108	20/8.89
GOULDS	183	SIMS BAYOU WWTP		TP7128	6100.3X3-16	M34706	675/108	20/8.89
INGERSOLL DRESSER	040	CLINTON PARK WWTP LS	Dry Pit / Wet Pit	3	8MFV13FR5T	9709MS000226- 2	879	20
INGERSOLL DRESSER	040	CLINTON PARK WWTP LS	Dry Pit / Wet Pit	4	8MFV13FR5T	9709MS000227- 1	879	20
INGERSOLL DRESSER	040	CLINTON PARK WWTP LS	Dry Pit / Wet Pit	1	8MFV13FR5T	9709MS000227- 1	879	20
INGERSOLL DRESSER	040	CLINTON PARK WWTP LS	Dry Pit / Wet Pit	2	8MFV13FR5T	9709MS000227- 2	879	20

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)

25 HP thru 50 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
ALLIS CHALMERS	183	SIMS BAYOU WWTP		RAS 6		1-64986-01	589	25
ALLIS CHALMERS	183	SIMS BAYOU WWTP		RAS 5		1-64988-01-2	589	25
ALLIS CHALMERS	094	GRAND	Dry Pit / Wet Pit	1	250	1-75708-01-02	586	25
ALLIS CHALMERS	094	GRAND	Dry Pit / Wet Pit	2	250	1-75708-01-01	586	25
ALLIS CHALMERS	016	BISSONNET #1	Dry Pit / Wet Pit	1	300	2-86859-2-1	695	25
ITT A-C	482	HUNTERWOOD M.U.D.	Dry Pit / Wet Pit	1	NSWV Model 300	243C343-1	1775	25
ITT A-C	482	HUNTERWOOD M.U.D.	Dry Pit / Wet Pit	2	NSWV Model 300	243C343-2	1775	25
ITT A-C	141	BRAESWOOD, N.	Dry Pit / Wet Pit	1	250	200166-03-03	1185	25
ITT A-C	141	BRAESWOOD, N.	Dry Pit / Wet Pit	2	250	200166-13-02	1185	25
ITT A-C	141	BRAESWOOD, N.	Dry Pit / Wet Pit	3	250	200166-03-01	1185	25
ITT A-C	065	EMNORA #2	Dry Pit / Wet Pit	2	200	207615-01-02	705	25
ITT A-C	065	EMNORA #2	Dry Pit / Wet Pit	3	200	207615-01-01	705	25
CORNELL PUMP CO.	334	FRAWLEY	Dry Pit / Wet Pit	1	12NHTM-VC18DB	11073117.50DEG10	704	25
CORNELL PUMP CO.	334	FRAWLEY	Dry Pit / Wet Pit	2	12NHTM-VC18DB	11073117.50DEG10	704	25
CORNELL PUMP CO.	334	FRAWLEY	Dry Pit / Wet Pit	3	12NHTM-VC18DB	11073117.50DEG12	704	25
ALLIS CHALMERS	250	KEEGANS BAYOU WWTP		NPW 1		871-3979201-1	1750	30
ALLIS CHALMERS	250	KEEGANS BAYOU WWTP		NPW 2		871-3979201-3	1750	30
ALLIS CHALMERS	250	KEEGANS BAYOU WWTP		NPW 3		871-3979201-2	1750	30
ALLIS CHALMERS	088	GESSNER #2	Dry Pit / Wet Pit	1	250	881-64119-01-1	585	30
ITT A-C Pump	300	ALDINE BENDER	Dry Pit / Wet Pit	1	300	238C140-1	705	30

ITT A-C Pump	300	ALDINE BENDER	Dry Pit / Wet Pit	2	300	238C140-3	705	30
ITT A-C	300	ALDINE BENDER	Dry Pit / Wet Pit	3	300	238C140-2	705	30
ITT A-C	270	NORTHGATE WWTP	Dry Pit / Wet Pit	3	250	W237C307-2	600	40
ITT A-C	270	NORTHGATE WWTP	Dry Pit / Wet Pit	4	250	W237C307-1	600	40
ITT A-C	270	NORTHGATE WWTP	Dry Pit / Wet Pit	2	250	W237C308-2	600	40
ITT A-C	270	NORTHGATE WWTP	Dry Pit / Wet Pit	1	250	W237C308-1	600	40
ITT A-C	270	NORTHGATE WWTP	Dry Pit / Wet Pit	5	250	W237C307-3	600	40
GOULDS	190	SOUTHWEST WWTP		NPW0153	3410	M285B724-3 imp 11.5		40
GOULDS	190	SOUTHWEST WWTP		NPW0154	3410	M285B724-2 imp 11.5		40
GOULDS	190	SOUTHWEST WWTP		NPW0155	3410	M285B724-1 imp 11.5		40
INGERSOLL DRESSER	242	BELTWAY WWTP		LP 84	10MFV16FRGA	96-5000049-1	890	40
INGERSOLL DRESSER	242	BELTWAY WWTP		LP 85	10MFV16FRGA	96-5000049-2	890	40
INGERSOLL DRESSER	242	BELTWAY WWTP	Dry Pit / Wet Pit	2	IOMFV16FR6A	96-S000049-2	890	40
INGERSOLL DRESSER	242	BELTWAY WWTP	Dry Pit / Wet Pit	1	10MFV16FR6A	96-S000049-1	890	40
INGERSOLL DRESSER	274	WHITE OAK WWTP	Dry Pit / Wet Pit	1	10MFV21-FR6A	0005MS001126-5	710	40
INGERSOLL DRESSER	274	WHITE OAK WWTP	Dry Pit / Wet Pit	2	10MFV21-FR6A	0005MS001126-2	710	40
INGERSOLL DRESSER	274	WHITE OAK WWTP	Dry Pit / Wet Pit	3	10MFV21-FR6A	0005MS001126-3	710	40
INGERSOLL DRESSER	274	WHITE OAK WWTP	Dry Pit / Wet Pit	4	10MFV21-FR6A	0005MS001126-1	710	40
INGERSOLL DRESSER	274	WHITE OAK WWTP	Dry Pit / Wet Pit	5	10MFV21-FR6A	0005MS001126-4	710	40
GOULDS	40	CLINTON PARK WWTP		WAS #1	JC-4X6-14	M30868	1750	45
GOULDS	40	CLINTON PARK WWTP		WAS #2	JC-4X6-14	M30869	1750	45
ALLIS CHALMERS	270	NORTHGATE WWTP		LP #3				50
ALLIS CHALMERS	270	NORTHGATE WWTP		LP #4				50
ALLIS CHALMERS	270	NORTHGATE WWTP		LP #5				50
ITT A-C	6	ALMEDA SIMS WWTP		LP3	250	1-75243-011		50

ALLIS CHALMERS	088	GESSNER #2	Dry Pit / Wet Pit	2	250	881-64119-01-2	705	50
ALLIS CHALMERS	054	DOCKAL	Dry Pit / Wet Pit	1	200	1-85876-1	800	50
ALLIS CHALMERS	054	DOCKAL	Dry Pit / Wet Pit	2	200	1-85876-2	800	50
ITT A-C	015	BINTLIFF	Dry Pit / Wet Pit	1	250	200166-01-03	585	50
ITT A-C	015	BINTLIFF	Dry Pit / Wet Pit	2	250	200166-01-02	585	50
ITT A-C	015	BINTLIFF	Dry Pit / Wet Pit	3	250	200166-01-01	585	50

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)

76 HP thru 125 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
ITT A-C	002	OLD KATY ROAD	Dry Pit / Wet Pit	1	250	204479-02-01	880	100
ITT A-C	002	OLD KATY ROAD	Dry Pit / Wet Pit	2	250	204479-01-01	880	100
INGERSOLL DRESSER	006	ALMEDA SIMS EAST	Dry Pit / Wet Pit	1	16MNZ25FR7L	9903M5000726-1	585	100
INGERSOLL DRESSER	006	ALMEDA SIMS EAST	Dry Pit / Wet Pit	2	16MNL25FR7L	9903MS000726-2	585	100
WORTHINGTON	237	WEST DISTRICT WWTP	Dry Pit / Wet Pit	3	30MNZ-33	85ZUS8351-2	440	100
ALLIS CHALMERS	186	MACGREGOR WAY, N. #3	Dry Pit / Wet Pit	3	NSWV	1757090103	885	125
ALLIS CHALMERS	186	MACGREGOR WAY, N. #3	Dry Pit / Wet Pit	2	NSWV	1757090101	885	125
ALLIS CHALMERS	186	MACGREGOR WAY, N. #3	Dry Pit / Wet Pit	1	NSWV	1757090102	885	125
GOULDS	138	N. E. SLUDGE		1	JCHS6X6X14	FM37560	1750	125
GOULDS	138	N. E. SLUDGE		2	JCHS6X6X14	FM37581	1750	125
INGERSOLL DRESSER	006	ALMEDA SIMS EAST	Dry Pit / Wet Pit	3	16MNZ25FR8L	9903MS000727-3	585	125
INGERSOLL DRESSER	006	ALMEDA SIMS EAST	Dry Pit / Wet Pit	4	16MNZ25FR8L	9903MS000727-2	585	125
INGERSOLL DRESSER	006	ALMEDA SIMS EAST	Dry Pit / Wet Pit	5	16MNZ25FR8L	9903MS000727-1	585	125
INGERSOLL DRESSER	400	69THWWTP		RS701A	20MNZ24	78-ZUS8165-12		125/31.25

INGERSOLL DRESSER	400	69THWWTP		RS701A/B	20MNZ24	78-ZUS8165-9		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS701E/F	20MNZ24	80-ZUS8213-12		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS701C	20MNZ24	80-ZUS8213-2		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS701F	20MNZ24	78-ZUS8165-5		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS701C/D	20MNZ24	80-ZUS8213-11		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801A	20MNZ24	78-ZUS8165-4		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS701D	20MNZ24	80-ZUS8213-8		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS701G	20MNZ24	78-ZUS8165-6		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS701G/H	20MNZ24	80-ZUS8213-6		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS701H	20MNZ24	78-ZUS8185-6		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS601A/B	20MNZ24	78-ZUS8165-9R		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801B	20MNZ24	80-ZUS8213-1		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801C	20MNZ24	78-ZUS8165-10		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801C/D	20MNZ24	78-ZUS8165-11		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801D	20MNZ24	80-ZUS8213-5		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801E	20MNZ24	78-ZUS8165-1		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801E/F	20MNZ24	78-ZUS8165-3		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801F	20MNZ24	80-ZUS8213-3		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801G	20MNZ24	80-ZUS8165-7		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801G/H	20MNZ24	78-ZUS8165-2		125/31.25
INGERSOLL DRESSER	400	69THWWTP		RS801H	20MNZ24	78-ZUS8165-4		125/31.25

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)

126 HP thru 200 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
ITT A-C	209	WESTHEIMER #1	Dry Pit / Wet Pit	1	250	237C6060-3	890	150
ITT A-C	209	WESTHEIMER #1	Dry Pit / Wet Pit	2	250	237C6060-3	890	150
ITT A-C	209	WESTHEIMER #1	Dry Pit / Wet Pit	3	250	237C6060-3	890	150
INGERSOLL DRESSER	400	69THWWTP		WAS1		96-5000025-1		150
INGERSOLL DRESSER	400	69THWWTP		WAS 3		96-5000025-2		150
INGERSOLL DRESSER	400	69THWWTP		WAS 2		95-50000250		150
INGERSOLL DRESSER	559	BELMONT	Dry Pit / Wet Pit	1	24MN233FR9H	97-5-0G0092-1	501	150
INGERSOLL DRESSER	559	BELMONT	Dry Pit / Wet Pit	6	24MNC23K9H	975000092-2	705	150
ITT A-C	201	TURKEY CREEK WWTP		WAS1	300	1-74324-02-1	1775	200
ITT A-C	201	TURKEY CREEK WWTP		WAS2	300	1-74324-02-2	1775	200
WORTHINGTON	237	WEST DISTRICT WWTP	Dry Pit / Wet Pit	1	30MNZ-33	85ZUS8352-1	440	200

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)

201 HP thru 400 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
CORNELL PUMP CO.	198	TEXAS	Dry Pit / Wet Pit	1	14NHGA-VF18DR	109342-18-09	1190	250
CORNELL PUMP CO.	198	TEXAS	Dry Pit / Wet Pit	2	14NHGA-VF18DR	109343-18-09	1190	250
CORNELL PUMP CO.	198	TEXAS	Dry Pit / Wet Pit	3	14NHGA-VF18DR	109344-18-09	1190	250
INGERSOLL DRESSER	145A	NORTHWEST (DRY)	Dry Pit / Wet Pit	1	20MNZ24FR8L		705	250
INGERSOLL DRESSER	145A	NORTHWEST (DRY)	Dry Pit / Wet Pit	2	20MNZ24FR8L		705	250
WORTHINGTON	400	69th STREET WWTP	Dry Pit / Wet Pit	1	30-MWZ-33		505	400
WORTHINGTON	400	69th STREET WWTP	Dry Pit / Wet Pit	2	30-MWZ-33		505	400
WORTHINGTON	400	69th STREET WWTP	Dry Pit / Wet Pit	7	30-MWZ-33		505	400
WORTHINGTON	400	69th STREET WWTP	Dry Pit / Wet Pit	8	30-MWZ-33		505	400

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)

401 HP Thru Larger HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
INGERSOLL DRESSER	559	BELMONT	Dry Pit / Wet Pit	2	24MNC23K9H	976SMS000091-2	705	450
INGERSOLL DRESSER	559	BELMONT	Dry Pit / Wet Pit	3	24MNC23K9H	976SMS000091-2	705	450
INGERSOLL DRESSER	559	BELMONT	Dry Pit / Wet Pit	4	24MNC23K9H	976SMS000091-3	705	450
INGERSOLL DRESSER	559	BELMONT	Dry Pit / Wet Pit	5	24MNC23K9H	950SMS000091-4	705	450
WORTHINGTON	188	MACGREGOR WAY, N. #1	Dry Pit / Wet Pit	1	24 MNF 39	85ZUS-8349-1	560	600

WORTHINGTON	188	MACGREGOR WAY, N. #1	Dry Pit / Wet Pit	4	24 MNF 39	85ZUS-8349-4	560	600
WORTHINGTON	188	MACGREGOR WAY, N. #1	Dry Pit / Wet Pit	3	24 MNF 39	85ZUS-8349-3	560	600
WORTHINGTON	188	MACGREGOR WAY, N. #1	Dry Pit / Wet Pit	2	24 MNF 39	85ZUS-8349-2	560	600

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

< 25 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FAIRBANKS MORSE	118	LANG	Dry Pit / Wet Pit	1	5443B28	K2P1055511-1	695	5
FAIRBANKS MORSE	118	LANG	Dry Pit / Wet Pit	2	5443B28	K2P1055511-0	695	5
PACO PUMPS	354	JOHN ALBER RD.	Dry Pit / Wet Pit	1	49513-146D00-268350	9878030101	1175	5
PACO PUMPS	354	JOHN ALBER RD.	Dry Pit / Wet Pit	2	49513-146D00-268350	9878030102	1175	5
PACO PUMPS	353	WEST CANINO RD.	Dry Pit / Wet Pit	1	NCF52-61215-58D15-04	97R8009301-3	870	7.5
PACO PUMPS	353	WEST CANINO RD.	Dry Pit / Wet Pit	2	NCF52-61215-58D15-04	97R8009301-2	870	7.5
PACO PUMPS	353	WEST CANINO RD.	Dry Pit / Wet Pit	3	NCF52-61215-58D15-04	97R8009301-1	870	7.5
AURORA	159	RANDOLPH	Dry Pit / Wet Pit	2			870	7.5
AURORA	159	RANDOLPH	Dry Pit / Wet Pit	1			870	7.5
FAIRBANKS MORSE	329	MILLBANKS	Dry Pit / Wet Pit	1	65415	945132-1	875	7.5
FAIRBANKS MORSE	329	MILLBANKS	Dry Pit / Wet Pit	2	65415	945132-0	875	7.5
AURORA	401	69TH SLTP		BWP1463		83-12841-3		10
AURORA	401	69TH SLTP		BWP1462		83-12841-1		10
AURORA	401	69TH SLTP		BWP1461		83-12842-2		10
FAIRBANKS MORSE	351	GULF BANK RD. #1	Dry Pit / Wet Pit	1	B-5443C		1,170	10
FAIRBANKS MORSE	351	GULF BANK RD. #1	Dry Pit / Wet Pit	2	B-5443C		1,170	10
FAIRBANKS MORSE	351	GULF BANK RD. #1	Dry Pit / Wet Pit	3	B-5443C		1,170	10

FAIRBANKS MORSE	172	SCOTT #1	Dry Pit / Wet Pit	10	4-B5442CLV	K4E1-062354-0	1755	10
FAIRBANKS MORSE	172	SCOTT #1	Dry Pit / Wet Pit	9	4-B5442CLV	K4E1-062354-1	1755	10
FAIRBANKS MORSE	324	JADEWOOD	Dry Pit / Wet Pit	2		5261213	865	10
AURORA	213	WILLOWBEND	Dry Pit / Wet Pit	2	6125F	71-147380	715	15
AURORA	213	WILLOWBEND	Dry Pit / Wet Pit	3	6125F	71-147381	715	15
AURORA	213	WILLOWBEND	Dry Pit / Wet Pit	1	6125F	71-147382	715	15
FAIRBANKS MORSE	451	MC MUD 48	Dry Pit / Wet Pit	2	B5413 - 4"	K3J1053261-1	1160	15
FAIRBANKS MORSE	451	MC MUD 48	Dry Pit / Wet Pit	3	B5413 - 4"		1160	15
FAIRBANKS MORSE	451	MC MUD 48	Dry Pit / Wet Pit	4	B5413 - 4"		1160	15
FAIRBANKS MORSE	425	NORTHBOROUGH # 1	Dry Pit / Wet Pit	1	5443	K3B1084302-1	1160	15
FAIRBANKS MORSE	425	NORTHBOROUGH # 1	Dry Pit / Wet Pit	3	5443	K3B1084302-1	1160	15
FAIRBANKS MORSE	422	QUAIL GLEN	Dry Pit / Wet Pit	2	5414	K3B1084619	700	15
FAIRBANKS MORSE	444	BELVEDERE	Dry Pit / Wet Pit	1	B5414	125425	705	15
FAIRBANKS MORSE	444	BELVEDERE	Dry Pit / Wet Pit	2	B5414	125425	705	15
FAIRBANKS MORSE	444	BELVEDERE	Dry Pit / Wet Pit	3	B5414	125425	705	15
FAIRBANKS MORSE	012	BEECHNUT	Dry Pit / Wet Pit	2	6X85414C	K2T1-069087	700	15
AURORA	401	69TH SLTP			PTP1911	63-12840-1		20
AURORA	401	69TH SLTP			PTP1912	83-12840-2		20
AURORA	401	69TH SLTP			PTP1913	83-12840-3		20
AURORA	401	69TH SLTP			PTP1914	83-12840-4		20
FAIRBANKS MORSE	576	WESTBURY	Dry Pit / Wet Pit	2	B5414L	304719-2	885	20
FAIRBANKS MORSE	576	WESTBURY	Dry Pit / Wet Pit	3	B5414L	304719-0	885	20
FAIRBANKS MORSE	576	WESTBURY	Dry Pit / Wet Pit	1	B5414L	304719-1	885	20
FAIRBANKS MORSE	422	QUAIL GLEN	Dry Pit / Wet Pit	1	5414	K3B1084319	1175	20
FAIRBANKS MORSE	077	FONDREN #2	Dry Pit / Wet Pit	3	14-B5711C		585	20

FAIRBANKS MORSE	077	FONDREN #2	Dry Pit / Wet Pit	1	14-B5711C		585	20
FAIRBANKS MORSE	077	FONDREN #2	Dry Pit / Wet Pit	2	14-B5711C		585	20
FAIRBANKS MORSE	423	QUAIL VIEW	Dry Pit / Wet Pit	1		K3B-1092681-1	865	20
FAIRBANKS MORSE	423	QUAIL VIEW	Dry Pit / Wet Pit	2		K3B-1092681	865	20
FAIRBANKS MORSE	426	NORTHBOROUGH # 2	Dry Pit / Wet Pit	1	T 40	K38D1087604-2	880	20
FAIRBANKS MORSE	426	NORTHBOROUGH # 2	Dry Pit / Wet Pit	2	T 40	K38D1087604	880	20
FAIRBANKS MORSE	426	NORTHBOROUGH # 2	Dry Pit / Wet Pit	3	T 40	K38D187604 -1	880	20
FAIRBANKS MORSE	542	PARKER ROAD	Dry Pit / Wet Pit	1	8544S	K4G1-078238-4	880	20
FAIRBANKS MORSE	542	PARKER ROAD	Dry Pit / Wet Pit	2	85444S	K4G1-078238-3	880	20
FAIRBANKS MORSE	542	PARKER ROAD	Dry Pit / Wet Pit	3	85444S	K4G1-078238-1	880	20
FAIRBANKS MORSE	542	PARKER ROAD	Dry Pit / Wet Pit	4	85444S	K4G1-078238-2	880	20
FAIRBANKS MORSE	183	SIMS BAYOU		RAS 3		K3X1071314-1	589	20
FAIRBANKS MORSE	183	SIMS BAYOU		RAS 2		K3X1071314-2	589	20
FAIRBANKS MORSE	183	SIMS BAYOU		RAS 1		K3X1071314-0	589	20

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

25 HP thru 50 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FAIRBANKS MORSE	212	WHEELER	Dry Pit / Wet Pit	1	8-DJ5434WD	k401076063-1	1140	25
FAIRBANKS MORSE	212	WHEELER	Dry Pit / Wet Pit	2	8-DJ5434WD	k401076063-2	1140	25
FAIRBANKS MORSE	212	WHEELER	Dry Pit / Wet Pit	3	8-DJ5434WD	k401076063-0	1140	25
FAIRBANKS MORSE	337	SCOTT #3	Dry Pit / Wet Pit	5	B5413	K4E1-062383-0	1765	25
FAIRBANKS MORSE	337	SCOTT #3	Dry Pit / Wet Pit	6	B5413	K4E1-062383-1	1765	25
FAIRBANKS MORSE	274	WHITE OAK WWTP		WAS #1				25

FAIRBANKS MORSE	279	WCID #111 WWTP		WAS #2				25
FAIRBANKS MORSE	242	BELTWAY WWTP		RAS 2		K3H1-060244	865	25
AURORA	350	KIRBY DRIVE #2	Dry Pit / Wet Pit	1	613-SF	79-7279-1	690	25
AURORA	350	KIRBY DRIVE #2	Dry Pit / Wet Pit	2	613-SF	79-7279-1	690	25
CHICAGO	265	PARK TEN #2	Dry Pit / Wet Pit	1	61-23813-A	61-23813	885	25
CHICAGO	265	PARK TEN #2	Dry Pit / Wet Pit	2	61-23813-A	61-23813	885	25
CHICAGO	265	PARK TEN #2	Dry Pit / Wet Pit	3	61-23813-A	61-23813	885	25
YEOMANS	332	BELLFORT, WEST NO. 2	Dry Pit / Wet Pit	3	108515	9804474-3	885	25
YEOMANS	332	BELLFORT, WEST NO. 2	Dry Pit / Wet Pit	2	108515	9804474-2	885	25
YEOMANS	332	BELLFORT, WEST NO. 2	Dry Pit / Wet Pit	1	108515	9804474-1	885	25
AURORA	401	69TH SLTP		SWP1671	4118F			30
AURORA	401	69TH SLTP		SWP1672	4118F			30
AURORA	401	69TH SLTP		SWP1673	4118F			30
AURORA	401	69TH SLTP		SWP1674	4118F			30
AURORA	181	SHERWOOD OAKS	Dry Pit / Wet Pit	2	613ASF	89-07680-1	875	30
AURORA	181	SHERWOOD OAKS	Dry Pit / Wet Pit	1	613ASF	89-07680-2	875	30
AURORA	014	BERING DR.	Dry Pit / Wet Pit	1			590	30
AURORA	014	BERING DR.	Dry Pit / Wet Pit	2			590	30
AURORA	014	BERING DR.	Dry Pit / Wet Pit	3			590	30
CHICAGO	286	UPPER BRAES WWTP		RAS 1	61425006A			30
CHICAGO	286	UPPER BRAES WWTP		RAS 10	61425006A			30
CHICAGO	286	UPPER BRAES WWTP		RAS 2	61 425006 A			30
CHICAGO	286	UPPER BRAES WWTP		RAS 3	61425006A			30
CHICAGO	286	UPPER BRAES WWTP		RAS 4	61425006A			30
CHICAGO	286	UPPER BRAES WWTP		RAS 5	61425006A			30
CHICAGO	286	UPPER BRAES WWTP		RAS 6	61425006A			30

CHICAGO	286	UPPER BRAES WWTP		RAS 7	6125007			30
CHICAGO	286	UPPER BRAES WWTP		RASI	61425006A			30
CHICAGO	286	UPPER BRAES WWTP		RAS 9	6125007B			30
CHICAGO	286	UPPER BRAES WWTP		RAS				30
FAIRBANKS MORSE	358	VICKERY	Dry Pit / Wet Pit	1	T 40	K3D1037104	860	30
FAIRBANKS MORSE	358	VICKERY	Dry Pit / Wet Pit	2	T 40	K3D1087104-3	860	30
FAIRBANKS MORSE	358	VICKERY	Dry Pit / Wet Pit	3	T 40	K3D1087114	860	30
FAIRBANKS MORSE	330	NORTHBROOK	Dry Pit / Wet Pit	1	5414-T8D1D		875	30
FAIRBANKS MORSE	330	NORTHBROOK	Dry Pit / Wet Pit	2	5414-T8D18		875	30
FAIRBANKS MORSE	280	POST OAK #1	Dry Pit / Wet Pit	1	10X12	KST1069922	1095	30
FAIRBANKS MORSE	617	SOUTH KIRKWOOD	Dry Pit / Wet Pit	1	B414L	1444551-0	880	30
FAIRBANKS MORSE	617	SOUTH KIRKWOOD	Dry Pit / Wet Pit	2	B414L	1444551-1	880	30
FAIRBANKS MORSE	617	SOUTH KIRKWOOD	Dry Pit / Wet Pit	3	B414L	1444551-2	880	30
FAIRBANKS MORSE	183	SIMS BAYOU WWTP		RAS 4		K3X1071306	589	30
FMC CORP	401	69TH SLTP		FFP1454	W1122D	A275982		30
FMC CORP	401	69TH SLTP		FFP1453	W1122D	A275985		30
FMC CORP	401	69TH SLTP		FFP1451	W1122D	A275988		30
FMC CORP	401	69TH SLTP		FFP1452	W1122D	A275989		30
AURORA	283	SIMS SOUTH WWTP		NPW5502	344 A	03-981399	3500	40
AURORA	283	SIMS SOUTH WWTP		NPW5504	344 A	03-981399	3500	40
AURORA	283	SIMS SOUTH WWTP		NPW5503	344 A	03-981399	3500	40
FAIRBANKS MORSE	280	POST OAK #1	Dry Pit / Wet Pit	2	10X12	KST1069923	1095	40
FAIRBANKS MORSE	280	POST OAK #1	Dry Pit / Wet Pit	3	10X12	KST1069931	1095	40
FAIRBANKS MORSE	171	SAGEMONT WWTP	Dry Pit / Wet Pit	1	B54145	K4E1-077990-1	1165	40
FAIRBANKS MORSE	171	SAGEMONT WWTP	Dry Pit / Wet Pit	2	B54145	K4E1-077990-2	1165	40

FAIRBANKS MORSE	197	GESSNER #1	Dry Pit / Wet Pit	1	B5444K	K4G1-078764-2	1185	40
FAIRBANKS MORSE	197	GESSNER #1	Dry Pit / Wet Pit	2	B5444K	K4G1-078764-1	1185	40
FAIRBANKS MORSE	197	GESSNER #1	Dry Pit / Wet Pit	3	B5444K	K4G1-078764-3	1185	40
FAIRBANKS MORSE	201	TURKEY CREEK WWTP	Dry Pit / Wet Pit	3		K3F 105 0900		40
FAIRBANKS MORSE	171	SAGEMONT WWTP		DLP#1	B54145			40
FAIRBANKS MORSE	171	SAGEMONT WWTP		DLP#2		K4E1-0077990-1		40
PACO PUMPS	347	DAIRY ASHFORD RD. #1	Dry Pit / Wet Pit	3	52-801422-KV23X4-NCR	01R8005702A	1190	40
PACO PUMPS	347	DAIRY ASHFORD RD. #1	Dry Pit / Wet Pit	2	52-801422-KV23X4-NCR	01R8005702C	1190	40
PACO PUMPS	347	DAIRY ASHFORD RD. #1	Dry Pit / Wet Pit	1	52-801422-KV23X4-NCR	01R8005702B	1190	40
FAIRBANKS MORSE	243	M.U.D. # 203 WWTP	Dry Pit / Wet Pit	1	B5414		1160	40 / 30
FAIRBANKS MORSE	243	M.U.D. # 203 WWTP	Dry Pit / Wet Pit	2	B5414		1160	40 / 30
FAIRBANKS MORSE	243	M.U.D. # 203 WWTP	Dry Pit / Wet Pit	4	B5414	K3H1051966-2	1160	40 / 30
FAIRBANKS MORSE	243	M.U.D. # 203 WWTP		LP #1		K3H1051966-2	1160	40/30
FAIRBANKS MORSE	243	M.U.D. # 203 WWTP		LP #2				40/30
FAIRBANKS MORSE	243	M.U.D. # 203 WWTP		LP #3		K3H1051966		40/30
AURORA	6	ALMEDA SIMS WWTP		NPW 1	411-BF	95-07844-1		50
AURORA	6	ALMEDA SIMS WWTP		NPW 2	411-BF	95-07844-2		50
AURORA	243	MUD #203 WWTP		NPW #1				50
AURORA	243	MUD #203 WWTP		NPW #2				50
AURORA	401	69TH SLTP		PWP1563		83-12841-3		50
AURORA	401	69TH SLTP		PWP1562		83-12841-1		50
AURORA	401	69TH SLTP		PWP1561		83-12841-3		50
AURORA	274	WHITE OAK WWTP		LP #1	200-A022			50
AURORA	274	WHITE OAK WWTP		LP #2	200-A022			50
FAIRBANKS MORSE	59	EASTHAVEN WWTP		LP#2		K3B1-084211	705/885	50

FAIRBANKS MORSE	59	EASTHAVEN WWTP		LP#3		K3B1-084211 -1	705/885	50
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WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

51 HP thru 75 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
AURORA	225	WCID NO. 47 WWTP	Dry Pit / Wet Pit	5	612A	97-03765	580	60
AURORA	225	WCID NO. 47 WWTP	Dry Pit / Wet Pit	1	612A	97-03765	580	60
AURORA	225	WCID NO. 47 WWTP	Dry Pit / Wet Pit	2	612A	97-03765	580	60
AURORA	225	WCID NO. 47 WWTP	Dry Pit / Wet Pit	3	612A	97-03765	580	60
AURORA	225	WCID NO. 47 WWTP	Dry Pit / Wet Pit	4	612A	97-03765	580	60
AURORA	313	GILPIN	Dry Pit / Wet Pit	3	612A	97-03766-1	720	60
CHICAGO	171	SAGEMONT WWTP		SLG#1	43155C-4A			60
YEOMANS	171	SAGEMONT WWTP		SLG#2	43155C-4A		1775	60
FAIRBANKS MORSE	131	MARKET ST. #1	Dry Pit / Wet Pit	1		K4E1-062447-0		60
FAIRBANKS MORSE	131	MARKET ST. #1	Dry Pit / Wet Pit	3		K4E1-062447-2		60
FAIRBANKS MORSE	131	MARKET ST. #1	Dry Pit / Wet Pit	6		K4E1-062447-1		60
FAIRBANKS MORSE	59	EASTHAVEN WWTP		LP#1	5711	K3B1-084212	720	60
FAIRBANKS MORSE	242	BELTWAY WWTP		RAS3		K3H1-06249	585	60
PACO PUMPS	182	SIMS BAYOU WWTP		NPW 1	K10336-0	16213301	3545	60
PACO PUMPS	182	SIMS BAYOU WWTP		NPW 2	91878743	197102138510	3545	60
PACO PUMPS	182	SIMS BAYOU WWTP		NPW 3	91878543	197102195910	3545	60
PACO PUMPS	5	ALMEDA SIMS WWTP		NPW1		VD9OR8107601		60
FAIRBANKS MORSE	458	MACGREGOR WAY, N. #2	Dry Pit / Wet Pit	2	230	1-75360-03-1	1190/891	60/34
FAIRBANKS MORSE	458	MACGREGOR WAY, N. #2	Dry Pit / Wet Pit	3	230	1-75360-03-2	1190/891	60/34

FAIRBANKS MORSE	458	MACGREGOR WAY, N. #2	Dry Pit / Wet Pit	4	250	1-75360-03-4	885	62
FAIRBANKS MORSE	458	MACGREGOR WAY, N. #2	Dry Pit / Wet Pit	1	250	1-75360-03-3	885	62
FAIRBANKS MORSE	131	MARKET ST. #1	Dry Pit / Wet Pit	2		K4E1-062466-1		75
FAIRBANKS MORSE	131	MARKET ST. #1	Dry Pit / Wet Pit	4		K4E1-062466-0		75
FAIRBANKS MORSE	131	MARKET ST. #1	Dry Pit / Wet Pit	5		K4E1-062466-2		75
FAIRBANKS MORSE	131	MARKET ST. #1	Dry Pit / Wet Pit	7		K4E1-062466-3		75
FAIRBANKS MORSE	337	SCOTT #3	Dry Pit / Wet Pit	1	C5415	K4E1-062382-5	710	75
FAIRBANKS MORSE	337	SCOTT #3	Dry Pit / Wet Pit	2	C5415	K4E1-062382-0	710	75
FAIRBANKS MORSE	337	SCOTT #3	Dry Pit / Wet Pit	3	C5415	K4E1-062382-1	710	75
FAIRBANKS MORSE	337	SCOTT #3	Dry Pit / Wet Pit	4	C5415	K4E1-062382-3	710	75
FAIRBANKS MORSE	560	BRETSHIRE WWF	Dry Pit	6		K4E1-077895	3550	75
FAIRBANKS MORSE	560	BRETSHIRE WWF	Dry Pit	7		K4E2-077895	3550	75
FAIRBANKS MORSE	189	SOUTHEAST WWTP	Dry Pit / Wet Pit	1	C5415	K441-062742-2	890	75
FAIRBANKS MORSE	189	SOUTHEAST WWTP	Dry Pit / Wet Pit	2	C5415	K441-062742-4	890	75
FAIRBANKS MORSE	189	SOUTHEAST WWTP	Dry Pit / Wet Pit	3	C5415		891	75
FAIRBANKS MORSE	189	SOUTHEAST WWTP	Dry Pit / Wet Pit	4	C5415	K441-062742-3	C5415	75
FAIRBANKS MORSE	189	SOUTHEAST WWTP	Dry Pit / Wet Pit	5	C5415	K441-062742-1	890	75
FAIRBANKS MORSE	397	METRO CENTRAL WWTP	Dry Pit / Wet Pit	3	C5415		890	75
FAIRBANKS MORSE	397	METRO CENTRAL WWTP	Dry Pit / Wet Pit	5	C5415	K4H1062743-2	890	75
FAIRBANKS MORSE	397	METRO CENTRAL WWTP	Dry Pit / Wet Pit	1	C5415		890	75
FAIRBANKS MORSE	397	METRO CENTRAL WWTP	Dry Pit / Wet Pit	2	C5415		890	75
FAIRBANKS MORSE	397	METRO CENTRAL WWTP	Dry Pit / Wet Pit	4	C5415		890	75
FAIRBANKS MORSE	402	BAYFIELD	Dry Pit / Wet Pit	3	B5446	K3E1-012016-2	1160	75
FAIRBANKS MORSE	402	BAYFIELD	Dry Pit / Wet Pit	2	B5446	K3E1-012016-1	1160	75
FAIRBANKS MORSE	402	BAYFIELD	Dry Pit / Wet Pit	1	B5446	K3E1-012016	1160	75

FAIRBANKS MORSE	099	GULFTON	Dry Pit / Wet Pit	1	5410		700	75
FAIRBANKS MORSE	099	GULFTON	Dry Pit / Wet Pit	2	5410		700	75
FAIRBANKS MORSE	242	BELTWAY WWTP		RFP		K3H1-060248		75
PACO PUMPS	5	ALMEDA SIMS WWTP		NPW2				75

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

76 HP thru 125 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
AURORA	313	GILPIN	Dry Pit / Wet Pit	1	612A	9703766-2	720	100
AURORA	313	GILPIN	Dry Pit / Wet Pit	2	612A	9703766-3	720	100
FAIRBANKS MORSE	356	GOODYEAR	Dry Pit / Wet Pit	1	16-E5711	309813-2	710	100
FAIRBANKS MORSE	356	GOODYEAR	Dry Pit / Wet Pit	2	16-E5711	309813-1	710	100
FAIRBANKS MORSE	356	GOODYEAR	Dry Pit / Wet Pit	3	16-E5711	309813-0	710	100
FAIRBANKS MORSE	171	SAGEMONT WWTP	Dry Pit / Wet Pit	5	B5711		705	100
FAIRBANKS MORSE	171	SAGEMONT WWTP	Dry Pit / Wet Pit	3	B5711		705	100
FAIRBANKS MORSE	171	SAGEMONT WWTP	Dry Pit / Wet Pit	4	B5711		705	100
FAIRBANKS MORSE	172	SCOTT #1	Dry Pit / Wet Pit	2	16-B5711C	K4E1-062352-1	888	100
FAIRBANKS MORSE	172	SCOTT #1	Dry Pit / Wet Pit	1	16-B5711C	K4E1-062352-0	888	100
FAIRBANKS MORSE	572	SCOTT ST	Dry Pit / Wet Pit	1	16-B5711C	K4 E1-062352-0	900	100
FAIRBANKS MORSE	572	SCOTT ST	Dry Pit / Wet Pit	2	16-B5711C	K4E1-062352-1	900	100
FAIRBANKS MORSE	618	TREEWATER	Dry Pit / Wet Pit	1	E2415	1444294-2	712	100
FAIRBANKS MORSE	618	TREEWATER	Dry Pit / Wet Pit	2	E2415	1444294-1	712	100
FAIRBANKS MORSE	618	TREEWATER	Dry Pit / Wet Pit	3	E2415	1444294-0	712	100
FAIRBANKS MORSE	321	WEST BAY AREA BLVD.	Dry Pit / Wet Pit	2	05416	1472732-2	705	125

FAIRBANKS MORSE	321	WEST BAY AREA BLVD.	Dry Pit / Wet Pit	1	05416	1472732-1	705	125
FAIRBANKS MORSE	321	WEST BAY AREA BLVD.	Dry Pit / Wet Pit	3	05416	1472732-3	705	125
AURORA	349	RICHMOND AVE. #1	Dry Pit / Wet Pit	1	HVE	310294010002-1	875	125
AURORA	349	RICHMOND AVE. #1	Dry Pit / Wet Pit	2	HVE	310294010002-2	875	125
AURORA	349	RICHMOND AVE. #1	Dry Pit / Wet Pit	3	HVE	310294010002-3	875	125
AURORA	349	RICHMOND AVE. #1	Dry Pit / Wet Pit	4	HVE	310294010002-4	875	125
AURORA	181	SHERWOOD OAKS	Dry Pit / Wet Pit	3	613ASF	69-07079-2	875	125
AURORA	181	SHERWOOD OAKS	Dry Pit / Wet Pit	4	613ASF	69-07079-1	875	125

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

126 HP Thru 200 HP

PumpManufacturer	Facility.	Facility Name	PumpType	Pump .	PumpModel.	PumpSerial.	Pump Rated RPM	Motor Horse Power
YEOMANS	006W	ALMEDA SIMS WEST	Dry Pit / Wet Pit	2	12622-5			150
YEOMANS	006W	ALMEDA SIMS WEST	Dry Pit / Wet Pit	1	12622-5			150
FAIRBANKS MORSE	6	ALMEDA SIMS WWTP		LP2		KJV1 065560		150

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

201 HP Thru 400 HP

PumpManufacturer	Facility.	Facility Name	PumpType	Pump .	PumpModel.	PumpSerial.	Pump Rated RPM	Motor Horse Power
FAIRBANKS MORSE	517	KINGWOOD CENTRAL	Dry Pit / Wet Pit	1	5400	K4E1-078005-2	1180	238
FAIRBANKS MORSE	517	KINGWOOD CENTRAL	Dry Pit / Wet Pit	2	5400	K4E1-078005-0	1180	238
FAIRBANKS MORSE	517	KINGWOOD CENTRAL	Dry Pit / Wet Pit	3	5400	K4E1-078005-1	1180	238
FAIRBANKS MORSE	242	BELTWAY WWTP	Dry Pit / Wet Pit	4		K3H1060245	580	250

FAIRBANKS MORSE	242	BELTWAY WWTP	Dry Pit / Wet Pit	5			580	250
FAIRBANKS MORSE	242	BELTWAY WWTP	Dry Pit / Wet Pit	3			580	250
FAIRBANKS MORSE	242	BELTWAY WWTP		LP 81		K3H1 -06246-0	705	250
YEOMANS	006W	ALMEDA SIMS WEST	Dry Pit / Wet Pit	3	20532-D3			300
YEOMANS	006W	ALMEDA SIMS WEST	Dry Pit / Wet Pit	4	20532-D3			300
YEOMANS	006W	ALMEDA SIMS WEST	Dry Pit / Wet Pit	5	20532-D3			300
FAIRBANKS MORSE	172	SCOTT #1	Dry Pit / Wet Pit	5	16-2414	K4E1-062353-2	885	350
FAIRBANKS MORSE	172	SCOTT #1	Dry Pit / Wet Pit	8	16-2414	K4E1-062353-3	885	350
FAIRBANKS MORSE	172	SCOTT #1	Dry Pit / Wet Pit	6	16-2414	K4E1-062353-4	885	350
FAIRBANKS MORSE	172	SCOTT #1	Dry Pit / Wet Pit	4	16-2414	K4E1-062353-5	885	350
FAIRBANKS MORSE	172	SCOTT #1	Dry Pit / Wet Pit	3	16-2414	K4E1-062353-0	885	350
FAIRBANKS MORSE	172	SCOTT #1	Dry Pit / Wet Pit	7	16-2414	K4E1-062353-1	885	350
FAIRBANKS MORSE	572	SCOTT ST	Dry Pit / Wet Pit	6	16-2414	K4E1-062353-4	900	350
FAIRBANKS MORSE	572	SCOTT ST	Dry Pit / Wet Pit	7	16-2414	K4E1-062353-1	900	350
FAIRBANKS MORSE	572	SCOTT ST	Dry Pit / Wet Pit	5	16-2414	K4E1-062353-2	900	350
FAIRBANKS MORSE	572	SCOTT ST	Dry Pit / Wet Pit	4	16-2414	K4E1-062353-5	900	350
FAIRBANKS MORSE	572	SCOTT ST	Dry Pit / Wet Pit	3	16-2414	K4E1-062353-0	900	350
FAIRBANKS MORSE	572	SCOTT ST	Dry Pit / Wet Pit	8	16-2414	K4E1-062353-4	900	350
FAIRBANKS MORSE	242	BELTWAY WWTP		LP 82		K3H1-06246-0	585	400
FAIRBANKS MORSE	242	BELTWAY WWTP		LP 83		K3H1-06245-1	585	400

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

401 HP thru Larger HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FAIRBANKS MORSE	400	69th STREET WWTP	Dry Pit / Wet Pit	5			320	500
FAIRBANKS MORSE	400	69th STREET WWTP	Dry Pit / Wet Pit	6			320	500
FAIRBANKS MORSE	400	69th STREET WWTP	Dry Pit / Wet Pit	3			320	750
FAIRBANKS MORSE	400	69th STREET WWTP	Dry Pit / Wet Pit	4			320	750

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP III (GORMAN RUPP/MARLOW/MOYNO/NEMO/PENN VALLEY/SYNCRFLO/VAUGHN/WEMCO)

< 25 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
GORMAN RUPP	244	CEDAR BAYOU WWTP		SLG#1	T4AJ4-B	713765		0.5
GORMAN RUPP	190	SOUTHWEST WWTP		PRCL2S1	11-1/2A2-E	998396		1.5
GORMAN RUPP	190	SOUTHWEST WWTP		PRCL2S2	11-1/2A52-B	1090396		3
GORMAN RUPP	190	SOUTHWEST WWTP		PRCL2S4	11-1/2A52-B	1097395		3
GORMAN RUPP	240	GREENRIDGE WWTP		BPSLG #1				3
MOYNO	250	KEEGANS BAYOU WWTP		POLY 1	2EOF5155F	AS41256		5
MOYNO	250	KEEGANS BAYOU WWTP		POLY 2	2EOF5155F	AS41256-3		5
MOYNO	250	KEEGANS BAYOU WWTP		POLY 3	2EOF5155F	AS41256		5
MOYNO	250	KEEGANS BAYOU WWTP		POLY 4	2EOF5155F	AS41256		5
MOYNO	270	NORTHGATE WWTP		SLG #1		AM10406-4		5
MOYNO	397	METRO CENTRAL WWTP		DTP #1	1E036G1CDO	AS493499	345	5
MOYNO	397	METRO CENTRAL WWTP		DTP #2	1E036G1CDO	AS493499	345	5

MOYNO	397	METRO CENTRAL WWTP		BPSLG	1E036G1CDO	AS1129T	345	5
MOYNO	397	METRO CENTRAL WWTP		BPSLG	1E036G1CDO	AS1129T	345	5
MOYNO	397	METRO CENTRAL WWTP		BPSLG #1	1FOGS1-CDO	AS41294-2	345	5
MOYNO	397	METRO CENTRAL WWTP		BPSLG #2	1FOGS1-CDO	AS41294-0	345	5
VAUGHAN	190	SOUTHWEST WWTP		SCMA316	3306HDS-065	23-233A-788	1750	5
VAUGHAN	190	SOUTHWEST WWTP		SCMB318	3306HDS-065	23-2338-781	1750	5
VAUGHAN	190	SOUTHWEST WWTP		SCMA317	3306HDS-065	23-233C-7M	1750	5
VAUGHAN	190	SOUTHWEST WWTP		SCMB317	3306HDS-065	23-233D-7M	1750	5
VAUGHAN	190	SOUTHWEST WWTP		SCMC317	3306HDS-065	23-233E-788	1750	5
VAUGHAN	190	SOUTHWEST WWTP		SCMA318	3306HDS-065	23-233F-788	1750	5
VAUGHAN	190	SOUTHWEST WWTP		SCMB318	3306HDS-065	23-233G-7U	1750	5
VAUGHAN	190	SOUTHWEST WWTP		SCMC318	3306HDS-065	23-233H-7M	1750	5
VAUGHAN	190	SOUTHWEST WWTP		SCMB319	3306HDS-065	23-233J-788	1750	5
VAUGHAN	190	SOUTHWEST WWTP		SCMC319	3306HDS-065	23-233K-788	1750	5
VAUGHAN	190	SOUTHWEST WWTP		SCMA319	3306HDS-065	23-233I-788	1750	5
VAUGHAN	240	GREENRIDGE WWTP		WP #1		64923B	1190	5
VAUGHAN	240	GREENRIDGE WWTP		WP #2		64923A	1190	5
VAUGHAN	274	WHITE OAK WWTP		SCUM #1	V00-548			5
VAUGHAN	274	WHITE OAK WWTP		SCUM #2	V00-548			5
VAUGHAN	274	WHITE OAK WWTP		SCUM #3	V00-548			5
MOYNO	250	KEEGANS BAYOU WWTP		POLY 1	2EOF5155F	AS41257-1		7.5
MOYNO	250	KEEGANS BAYOU WWTP		POLY 2	2EOF5155F	AS41257-2		7.5
MOYNO	286	UPPER BRAES WWTP		SLG 1	1G065G1CDQ			7.5
MOYNO	286	UPPER BRAES WWTP		SLG2	1G065G1CDQ			7.5
WEMCO	250	KEEGANS BAYOU WWTP		GRIT1	C	8698384-3	680	7.5

WEMCO	250	KEEGANS BAYOU WWTP		GRIT2	C	8698384-2	680	7.5
GORMAN RUPP	6	ALMEDA SIMS WWTP		SCM 2	T4A3-B			7.5
GORMAN RUPP	6	ALMEDA SIMS WWTP		SCM 1	T4A3-8			7.5
GORMAN RUPP	238	INT. AIRPORT WWTP		SLG #1	T4A24-B	882778		7.5
GORMAN RUPP	244	CEDAR BAYOU WWTP		WAS#1	T4A24-B	632437		7.5
GORMAN RUPP	268	IMPERIAL VALLEY WWTP		SLG #1	T4A24-B			7.5
GORMAN RUPP	268	IMPERIAL VALLEY WWTP		WAS #1	T4A24-B	879356		7.5
GORMAN RUPP	268	IMPERIAL VALLEY WWTP		WAS #2	T4A24-B	875776		7.5
GORMAN RUPP	83	FWSD #23 WWTP		DEOD#1	T4A24-B	88277		7.5
GORMAN RUPP	83	FWSD #23 WWTP		DEOD#2	T4A24-B	632433		7.5
GORMAN RUPP	6	ALMEDA SIMS WWTP		TSLG 3	T4A3-B	795753		10
GORMAN RUPP	6	ALMEDA SIMS WWTP		TSLG 1	T4A3-B	795754		10
GORMAN RUPP	6	ALMEDA SIMS WWTP		TSLG 2	T4A3-B	791377		10
GORMAN RUPP	240	INT. AIRPORT WWTP		SLG #2	T4A24-B	879354		10
GORMAN RUPP	242	BELTWAY WWTP		THICK 1	TGA3-B	1078724	1800	10
GORMAN RUPP	242	BELTWAY WWTP		THICK 2	TGA3-B	1078721	1800	10
GORMAN RUPP	242	BELTWAY WWTP		THICK 3	TGA3-B	1078722	1800	10
GORMAN RUPP	242	BELTWAY WWTP		THICK	TGA3-B	1078723	1800	10
MARLOW	270	NORTHGATE WWTP		SCUM#1	4DT	839789		10
MARLOW	270	NORTHGATE WWTP		SCUM#2	4DT	839790		10
MOYNO	286	UPPER BRAES WWTP		THICK 1	1G065G1	AS-41381-2		10
MOYNO	286	UPPER BRAES WWTP		THICK 2	1G065G1	AS-41383-2		10
NEMO	242	BELTWAY WWTP		SLG 1				10
NEMO	242	BELTWAY WWTP		SLG 2				10
VAUGHAN	240	GREENRIDGE WWTP		SCM #1	SP4CBAV	64894B	1250	10

VAUGHAN	240	GREENRIDGE WWTP		SCM #2		64894A	1250	10
WEMCO	250	KEEGANS BAYOU WWTP		CENT 1		01463WN		10
WEMCO	250	KEEGANS BAYOU WWTP		CENT 2		01463WN		10
WEMCO	250	KEEGANS BAYOU WWTP		CENT 3		014063WN	185	10
WEMCO	250	KEEGANS BAYOU WWTP		CENT 4		014063WN	185	10
MARLOW	107	HOMESTEAD WWTP		WAS #1	4DTH14EB	8122514		15
MARLOW	107	HOMESTEAD WWTP		WAS #2	4DTH14EB	8122516		15
MARLOW	183	SIMS BAYOU WWTP		WS 1		1-75085-01-2		15
MARLOW	183	SIMS BAYOU WWTP		WS 2		1-75085-01-1		15
GORMAN RUPP	283	SIMS SOUTH WWTP		TAS5104	T4A24-B	882779		15
GORMAN RUPP	283	SIMS SOUTH WWTP		TAS5108	T6A3B	676803N		15
GORMAN RUPP	250	KEEGANS BAYOU WWTP		WAS 1				15
GORMAN RUPP	250	KEEGANS BAYOU WWTP		WAS 2				15
GORMAN RUPP	250	KEEGANS BAYOU WWTP		WAS 3				15
GORMAN RUPP	250	KEEGANS BAYOU WWTP		WAS 4				15
GORMAN RUPP	39	CHOCOLATE BAYOU WWTP		WS	T4AS B/F			15
MOYNO	250	KEEGANS BAYOU WWTP		SLG 1		AS4 1258-1		15
MOYNO	250	KEEGANS BAYOU WWTP		SLG 2		AS41258-2		15
PENN VALLEY	182	SIMS BAYOU WWTP		PSP8511	4DDDX24CNU	0502141/0502142	730	15
PENN VALLEY	182	SIMS BAYOU WWTP		PSP8512	4DDDX24CNU	01592B/04J55	730	15
PENN VALLEY	182	SIMS BAYOU WWTP		PSP8513	4DDDX24CNU	04J59/04J58	730	15
PENN VALLEY	182	SIMS BAYOU WWTP		PSP8514	4DDDX24CNU	04C86/04C87	730	15
PENN VALLEY	39	CHOCOLATE BAYOU WWTP		SP1	6DDHD			15
PENN VALLEY	39	CHOCOLATE BAYOU WWTP		SP2	6DDHD			15
PENN VALLEY	240	GREENRIDGE WWTP		DSP 1	4DDHO	02H24A	730	15
PENN VALLEY	240	GREENRIDGE WWTP		DSP 2	4DDHO	02H23A	730	15

PENN VALLEY	240	GREENRIDGE WWTP		SP 1	M6DDAO	03H27B	730	15
PENN VALLEY	240	GREENRIDGE WWTP		SP 2	M6DDAO	03H28B	730	15
PENN VALLEY	240	GREENRIDGE WWTP		TP 1	4DDHO	02H26A	730	15
PENN VALLEY	240	GREENRIDGE WWTP		TP 2	4DDHO	02H25A	730	15
GORMAN RUPP	6	ALMEDA SIMS WWTP		SW2	T4A3-B			20
GORMAN RUPP	6	ALMEDA SIMS WWTP		SW1	T4A3-8			20
GORMAN RUPP	250	KEEGANS BAYOU WWTP		SLG 1	T843-B	1064469		20
GORMAN RUPP	250	KEEGANS BAYOU WWTP		SLG 2	T843-B	1069457		20
GORMAN RUPP	250	KEEGANS BAYOU WWTP		SLG 3	T843-B	1064459		20
GORMAN RUPP	250	KEEGANS BAYOU WWTP		THICK 1	T843-B	1069462		20
GORMAN RUPP	250	KEEGANS BAYOU WWTP		THICK 1	T843-B	1067980		20
GORMAN RUPP	250	KEEGANS BAYOU WWTP		THICK 2	T843-B	1067981		20
GORMAN RUPP	250	KEEGANS BAYOU WWTP		THICK 3	T843-B	1073627		20
GORMAN RUPP	250	KEEGANS BAYOU WWTP		THICK 3	T843-B	1073626		20
SYNCRFLO INC.	183	SIMS BAYOU WWTP		NPW 1		910279-1	3525	20
SYNCRFLO INC.	183	SIMS BAYOU WWTP		NPW 2		910279-2	3525	20
SYNCRFLO INC.	183	SIMS BAYOU WWTP		NPW 3		910279-3	3525	20

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP III (GORMAN RUPP/MARLOW/MOYNO/NEMO/PENN VALLEY/SYNCRFLO/VAUGHN/WEMCO)

25 HP Thru 50 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
WEMCO	6	ALMEDA SIMS WWTP		WS 1	CE	7893748-2		25
WEMCO	6	ALMEDA SIMS WWTP		WS 2	CE	8398573-3		25
WEMCO	6	ALMEDA SIMS WWTP		WS3	CE	8396573-1		25
WEMCO	397	METRO CENTRAL WWTP		WP #1	4X4 C	8296285-1	400/640	25
WEMCO	397	METRO CENTRAL WWTP		WP #2	4X4 C	8296265-2	400/640	25
GORMAN RUPP	283	SIMS SOUTH WWTP		NPW5501	54B2-B	880218		40
WEMCO	59	EASTHAVEN WWTP		WP#1	4X1 5M	02XW03825-0	1350	40
WEMCO	59	EASTHAVEN WWTP		WP#2	4X1 5M	02XW03825-0	1350	40
WEMCO	190	SOUTHWEST WWTP		GRIT0192	CE	8798654-5		50
WEMCO	190	SOUTHWEST WWTP		GRIT0193	CE	8798654-4		50
WEMCO	190	SOUTHWEST WWTP		GRIT0194	CE	8796654-6		50

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP IV (FLOWAY/PEABODY)

< 25 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
PEABODY	286	UPPER BRAES WWTP		NPW2		87-20703		20
PEABOBY	286	UPPER BRAES WWTP		NPW1			3600	20

WASTEWATER OPERATIONS DRY PIT PUMPS								
GROUP IV (FLOWAY/PEABODY)								
<i>126 HP thru 200 HP</i>								
Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
PEABODY	201	TURKEY CREEK WWTP		NPW 1		42-21329	200	150

WASTEWATER OPERATIONS DRY PIT PUMPS								
GROUP IV (FLOWAY/PEABODY)								
<i>201 HP thru 400 HP</i>								
Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FLOWAY	400	69THWWTP		NPW A	24 MKM	44761-1-1	1175	300
FLOWAY	400	69THWWTP		NPW B	24 MKM		1175	300
FLOWAY	400	69THWWTP		NPW C	24 MKM		1175	300

WASTEWATER OPERATIONS DRY PIT PUMPS								
GROUP V (KSB/SEWATEC)								
<i>< 25 HP</i>								
Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
KSB	327	GREEN RIVER DR.	Dry Pit / Wet Pit	1	SEWARLOC K150	S-M26-71162311-3	875	10
KSB	327	GREEN RIVER DR.	Dry Pit / Wet Pit	2	SEWARLOC K150	S-M26-71162311-2	875	10
KSB	327	GREEN RIVER DR.	Dry Pit / Wet Pit	3	SEWARLOC K150	S-M26-71162311-1	875	10
KSB	328	LONGWOODS LN.	Dry Pit / Wet Pit	2		248185	1175	20
KSB	328	LONGWOODS LN.	Dry Pit / Wet Pit	1		227950	1175	20
KSB	240	GREENRIDGE WWTP		RSP #1	K250-401	5M26713480-1	875	20
KSB	240	GREENRIDGE WWTP		RSP #2	K250-401	5M26713480-2	875	20

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP V (KSB/SEWATEC)

26 HP thru 50 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
KSB	598	COOK RD	Dry Pit / Wet Pit	3	L-250-401	5-M26-749-559 / 2	1180	40
KSB	598	COOK RD	Dry Pit / Wet Pit	1	L-250-401	5-M26-749-559 / 3	1180	40
KSB	598	COOK RD	Dry Pit / Wet Pit	2	L-250-401	5-M26-749-559 / 1	1180	40
KSB	379	STROUD	Dry Pit / Wet Pit	2	9970767627000700	200263	695	40
KSB	379	STROUD	Dry Pit / Wet Pit	3	9970767627000700	200261	695	40
KSB	379	STROUD	Dry Pit / Wet Pit	1	9970767627000700	200262	695	40

- WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP V (KSB/SEWATEC)

51 HP thru 75HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
SEWATEC	222	NORTH SHORE	Dry Pit / Wet Pit	1	K 300-400	6-M26 712 815/3	880	60
SEWATEC	222	NORTH SHORE	Dry Pit / Wet Pit	2	K 300-400	6-M26 712 815/2	880	60
SEWATEC	222	NORTH SHORE	Dry Pit / Wet Pit	3	K 300-400	6-M26 712 815/1	880	60
KSB	240	GREENRIDGE WWTP	Dry Pit / Wet Pit	2	K300-401	5-M26-713480/A3	1160	75
KSB	240	GREENRIDGE WWTP	Dry Pit / Wet Pit	6	K300-401	5-M26-713480/A6	1160	75
KSB	240	GREENRIDGE WWTP	Dry Pit / Wet Pit	5	K300-401	5-M26-713480/A1	1160	75
KSB	240	GREENRIDGE WWTP	Dry Pit / Wet Pit	3	K300-401	5-M26-713480/A2	1160	75
KSB	240	GREENRIDGE WWTP	Dry Pit / Wet Pit	1	K300-401	5-M26-713480/A3	1160	75
KSB	240	GREENRIDGE WWTP	Dry Pit / Wet Pit	4	K300-401	5-M26-713480/A1	1160	75
KSB	240	GREENRIDGE WWTP		RSP #3	K250-401	5M26713480-3	875	75

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP VI (MISC PUMPS: WEINMAN/METPRO COPR/THOMPSON/FRANKLIN MILLER/DEAN/DENMIN/GORDON/HYDROMATIC/KROGH)

< 25 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
WEINMAN	270	NORTHGATE WWTP		POLY#1				0.75
MET PRO CORP	283	SIMS SOUTH WWTP		PRCL2S	KMSP1035NT	3156		1
MET PRO CORP	400	69THWWTP		GRB	KMSP1035NT	131293		1
MET PRO CORP	400	69THWWTP		PRCL2B	KMSP1035NT	131293		1
MET PRO CORP	400	69THWWTP		PRCL2A	KMSP1035NT	131293		1
FINISH THOMPSON	400	69THWWTP		RCR 2	KMSP1035NT	3113		2
FINISH THOMPSON	400	69THWWTP		RCR 3	KMSP1035NT	3113		2
FINISH THOMPSON	400	69THWWTP		RCR 1	KMSP1035NT	3113		2
FRANKLIN MILLER	286	UPPER BRAES WWTP		GRIND 1	8512-TM	4977C		3
FRANKLIN MILLER	286	UPPER BRAES WWTP		GRIND 2	8512-TM	4977D		3
DEAN BROTHERS	401	69TH SLTP	-	-	R5144	142484		5
DEAN BROTHERS	401	69TH SLTP	-	-	R5144	142485		5
DEMIN	303	CHASEWOOD	Dry Pit / Wet Pit	1	7182	DP 710338	1200	5
DEMIN	303	CHASEWOOD	Dry Pit / Wet Pit	2	7182	DP 710339	1200	5
FRANKLIN MILLER	242	BELTWAY WWTP		GRIND 1	8512-TM	4977-B		5
FRANKLIN MILLER	242	BELTWAY WWTP		GRIND 2	8512-TM	4977-A		5
HAYWOOD GORDON	238	INT. AIRPORT WWTP		GRIT #1	XR47	2319942		5
HAYWOOD GORDON	238	INT. AIRPORT WWTP		GRIT #2	XR47			5
HYDROMATIC	494	KINGWOOD DR.	Dry Pit / Wet Pit	2				5
HYDROMATIC	494	KINGWOOD DR.	Dry Pit / Wet Pit	1				5

HYDROMATIC	586	RUTERFORD LANE	Self Priming	1	40MP	P2134		7.5
KROGH	377	HILLCROFT	Dry Pit / Wet Pit	3		99511	700	15
KROGH	377	HILLCROFT	Dry Pit / Wet Pit	1		99516	700	15
KROGH	377	HILLCROFT	Dry Pit / Wet Pit	2		99515	700	15

WASTEWATER OPERATIONS DRY PIT PUMPS

GROUP VI (MISC PUMPS: WEINMAN/METPRO COPR/THOMPSON/FRANKLIN MILLER/DEAN/DENMIN/GORDON/HYDROMATIC/KROGH)

25 HP thru 50 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
KROGH	333	RIDGECREEK	Dry Pit / Wet Pit	2	V1977G	76624 RH		25
KROGH	333	RIDGECREEK	Dry Pit / Wet Pit	3	V1977G	76625 RH		25
HAYWOOD GORDON	201	TURKEY CREEK WWTP		SCUM 1	X84-12	220585-1	820	25
HAYWOOD GORDON	201	TURKEY CREEK WWTP		SCUM 2	X84-12	220585-1	820	25
HAYWOOD GORDON	201	TURKEY CREEK WWTP		SCUM 3	X84-12	220585-1	820	25
HAYWOOD GORDON	201	TURKEY CREEK WWTP		SCUM 4	X84-12	220585-1	820	25
PEERLESS	182	SIMS BAYOU WWTP		CBP8526				30
PEERLESS	182	SIMS BAYOU WWTP		CBP8525				30
DEAN BROTHERS	401	69TH SLTP		FUP1711	R5184	142482		50/22.22
DEAN BROTHERS	401	69TH SLTP		FUP1712	R5184	142483		55/22.22

**EXHIBIT B2
LOCATIONS OF DRY PIT PUMPS
FOR
DRINKING WATER OPERATIONS**

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)

< 25 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
CORNELL	165	NEWPP	Dry Pit / Wet Pit	09-P-01	4NNTL4/M			3
CORNELL	165	NEWPP	Dry Pit / Wet Pit	09-P-02	4NNTL4/M			3
CORNELL	165	NEWPP	Dry Pit / Wet Pit	03-P-08	3180			20
GOULDS	165	NEWPP	Dry Pit / Wet Pit	03-P-09	3180			20
GOULDS	165	NEWPP	Dry Pit / Wet Pit	03-P-208	3180			20
GOULDS	165	NEWPP	Dry Pit / Wet Pit	03-P-209	3180			20
CHALMERS	030	SHARPSTOWN # 2		BP1				20

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)

25 HP thru 50 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
GOULDS	165	NEWPP	Dry Pit / Wet Pit	09-P-03	3196			40
GOULDS	165	NEWPP	Dry Pit / Wet Pit	09-P-04	3196			40
GOULDS	165	NEWPP	Dry Pit / Wet Pit	09-P-203	3196			40
GOULDS	165	NEWPP	Dry Pit / Wet Pit	09-P-204	3196			40
WORTHINGTON	79	EWPP	Waste Transfer Pump	CD368APY				50

WORTHINGTON	79	EWPP	Waste Transfer Pump	CD368APY				50
INGERSOLL-RAND	131	DISTRICT 254		BP4				40
CHALMERS	030	SHARPSTOWN # 1		BP1				50
CHALMERS	030	SHARPSTOWN # 1		BP2				50
ITT A-C	117	MEYERLAND		BP2				50

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)

51 HP thru 75 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
GOULD	128	PARK TEN CENTRAL		BP1				60

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)

76 HP thru 125 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
ITT A-C	113	DISTRICT 158		BP2				125
ITT A-C	113	DISTRICT 158		BP3				125

DRINKING WATER OPERATIONS DRY PIT PUMPS								
GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)								
126 HP Thru 200 HP								
PumpManufacturer	Facility.	Facility Name	PumpType	Pump .	PumpModel.	PumpSerial.	Pump Rated RPM	Motor Horse Power
ITT A-C	113	DISTRICT 158		BP1				200
ITT A-C	113	DISTRICT 158		BP4				200
ITT A-C	004	HEIGHTS PLANT		BP1				200

DRINKING WATER OPERATIONS DRY PIT PUMPS								
GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)								
201 HP thru 400 HP								
Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
WORTHINGTON	118	EWPP	Transfer Pump	TRSF-P-301	24KMD30-2	176081	710	400
WORTHINGTON	118	EWPP	Transfer Pump	TRSF-P-302	23KMD30-2	83-TU2568-1	720	400
GOULD	077	JERSERY VILLAGE		BP1				250
GOULD	077	JERSERY VILLAGE		BP2	3410	254C279		250
GOULD	001	ACRES HOMES		BP1	95053C02	M95053C02		400
GOULD	001	ACRES HOMES		BP4	3420	M95053C01		400
ITT A-C	011	SPRING BRANCH		BP1		98-229899-01-02		250
ITT A-C	011	SPRING BRANCH		BP2		98-229889-02-02		250
ITT A-C	011	SPRING BRANCH		BP3		98-229889-02-01		250
ITT A-C	011	SPRING BRANCH		BP4		98-229889-01-01		250
ITT A-C	002	BELLAIRE BRAES		BP1	9100	738C932-1		350
ITT A-C	002	BELLAIRE BRAES		BP3	9100	738C932-2		350

ITT A-C	002	HEIGHTS PLANT		BP2				350
ITT A-C	005	KATY ADDICKS		BP1		W237C680		350
ITT A-C	005	KATY ADDICKS		BP2		W237C681-2		350
ITT A-C	005	KATY ADDICKS		BP3		W237C681-1		350
ITT A-C	004	HEIGHTS PLANT		BP3		W237C681-1		400
ITT A-C	008	SIMS BAYOU		BP3		97-210356-03-03		400
ITT A-C	008	SIMS BAYOU		BP4		97-210356-03-02		400
ITT A-C	008	SIMS BAYOU		BP5		97-210356-03-01		400
ITT A-C	077	JERSERY VILLAGE		BP3		85Z002859-1		350

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP I (ITT A-C/ALLIS CHALMERS/CORNELL/GOULDS/INGERSOLL-DRESSER/WORTHINGTON)

401 HP Thru Larger HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
Worthington	122	SEWPP	Dry Pit / Wet Pit	BWP-3164				300
Worthington	122	SEWPP	Dry Pit / Wet Pit	BWP-3165				300
Worthington	118	EWPP	Distribution	PMP 401	12LINCH	MLDOC213-1	1200	600
Worthington	118	EWPP	Distribution	PMP 402	12LINCH		1200	600
Worthington	79	EWPP	Transfer Pump	TRSF-P-B-5	5KVF84463400501	1H284001938	593	600
Worthington	79	EWPP	Transfer Pump	TRSF-P-B-4	75KVF84463400501	70213A	598	600
Worthington	118	EWPP	Transfer Pump	TRSF-P-303	36MD42-2	1868AA	505	700
Worthington	118	EWPP	Transfer Pump	TRSF-P-304	36MD42-2	83-TU2570-1	514	700
Worthington	122	SEWPP	Dry Pit	HSP-5105				900
Worthington	122	SEWPP	Dry Pit	HSP-5106				900
ITT	122	SEWPP	Dry Pit / Wet Pit	TP-3160				900

ITT	122	SEWPP	Dry Pit / Wet Pit	TP-3161				900
ITT	122	SEWPP	Dry Pit / Wet Pit	TP-3162				900
Worthington	118	EWPP	Distribution	PMP 403	82624-001	842002624-1	720	1500
Worthington	118	EWPP	Distribution	PMP 404	82624-002	84200264-2	720	1500
Worthington Inc.	79	EWPP	Transfer Pump	601	4MFC-11	93-33-92618		1800
Worthington Inc.	79	EWPP	Transfer Pump	602	4MFC-11	93-33-92618-2		1800
Worthington Inc.	79	EWPP	Transfer Pump	603	4MFC-11	93-33-92618-6		1800
Worthington-Dresser	118	EWPP	Rapid Mix Pump		6MFO-11	93-33-92617-1		1800
Worthington-Dresser	118	EWPP	Rapid Mix Pump		6MFO-11	93-33-92617-2		1800
Worthington-Dresser	118	EWPP	Rapid Mix Pump		6MFO-11			1800
Worthington	122	SEWPP	Dry Pit	HSP-5101				2000
Worthington	122	SEWPP	Dry Pit	HSP-5102				2000
Worthington	122	SEWPP	Dry Pit	HSP-5103				2250
Worthington	122	SEWPP	Dry Pit	HSP-5104				2750
GOULD	001	ACRES HOMES		BP2	3420	220C888		600
GOULD	001	ACRES HOMES		BP3	3420	220C781		600
GOULD	001	ACRES HOMES		BP5	3420	246C302		1100
GOULD	001	ACRES HOMES		BP6	3420	246C301		1100
ITT A-C	004	HEIGHTS PLANT		BP4				450
ITT A-C	004	HEIGHTS PLANT		BP5				450
ITT A-C	002	BELLAIRE BRAES		BP2	9100	238C933-2		500
ITT A-C	002	BELLAIRE BRAES		BP5	9100	238C933-1		500
ITT A-C	005	KATY ADDICKS		BP4	150	W2376682-1		500
ITT A-C	005	KATY ADDICKS		BP5	150	W2376682-2		500
ITT A-C	008	SIMS BAYOU		BP1				500

ITT A-C	008	SIMS BAYOU		BP2	150	21356-01-01		500
WORTHINGTON	077	JERSERY VILLAGE		BP4		852002860-1		500

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

< 25 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
NETZSCH	165	NEWPP	Dry Pit / Wet Pit	09-P-03	NM076SY01L04K		280	15
NETZSCH	165	NEWPP	Dry Pit / Wet Pit	09-P-04	NM076SY01L04K		280	15
NETZSCH	165	NEWPP	Dry Pit / Wet Pit	09-P-203	NM076SY01L04K		280	15
NETZSCH	165	NEWPP	Dry Pit / Wet Pit	09-P-204	NM076SY01L04K		280	15
AURORA	133	DISTRICT 237		BP1	180A025	04-1059382		20

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

25 HP thru 50 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
AURORA	122	SEWPP	Dry Pit / Wet Pit	BWWP-3170	611			25
AURORA	122	SEWPP	Dry Pit / Wet Pit	BWWP-3171	611			25
AURORA	082	DISTRICT 90 #2		BP1				25
AURORA	082	DISTRICT 90 #2		BP2				25
AURORA	137	ENCLAVE #2		BP1				30
AURORA	082	DISTRICT 90 #2		BP3				40
AURORA	149	HUNTERWOOD		BP1				40
AURORA	149	HUNTERWOOD		BP2				40

AURORA	117	MEYERLAND		BP1				40
AURORA	133	DISTRICT 237		BP2	180A025	04-1059381		50

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

51 HP thru 75 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
AURORA	122	SEWPP	Dry Pit / Wet Pit	PWP-3181	364A			75
AURORA	122	SEWPP	Dry Pit / Wet Pit	PWP-3182	364A			75
AURORA	122	SEWPP	Dry Pit / Wet Pit	PWP-3183	364A			75
AURORA	036	WESTBURY #1		BP1				60
AURORA	036	WESTBURY #1		BP2				60
AURORA	126	DISTRICT 223		BP1				75
AURORA	126	DISTRICT 223		BP2				75
AURORA	126	DISTRICT 223		BP3				75
AURORA	137	ENCLAVE #2		BP2				75
AURORA	137	ENCLAVE #2		BP3				75
AURORA	137	ENCLAVE #2		BP4				75
AURORA	117	MEYERLAND		BP3				75

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

76 HP thru 125 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FAIRBANKS MORSE	79	EWPP	Transfer Pump	TRSF-P-E-1		598415		100
Aurora	122	SEWPP	Dry Pit / Wet Pit	SWP-3190	410			125
Aurora	122	SEWPP	Dry Pit / Wet Pit	SWP-3191	410			125
AURORA	036	WESTBURY #1		BP3				100
AURORA	023	SHARPSTOWN #1		BP3				125
AURORA	128	PARK TEN CENTRAL		BP2				150
FAIRBANKS	129	DISTRICT 175		BP1				125
FAIRBANKS	129	DISTRICT 175		BP2				125
PACO	033	PARKGLEN #1		BP2				100
PACO	033	PARKGLEN #1		BP3				100

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP II (AURORA/YEOMANS CHICAGO CORPORATION/FAIRBANKS MORSE/FMC CORP./PACO)

126 HP Thru 200 HP

PumpManufacturer	Facility.	Facility Name	PumpType	Pump .	PumpModel.	PumpSerial.	Pump Rated RPM	Motor Horse Power
AURORA	128	PARK TEN CENTRAL		BP3				150
PACO	033	PARKGLEN #1		BP1				150

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP III (GORMAN RUPP/MARLOW/MOYNO/NEMO/PENN VALLEY/SYNCRFLO/VAUGHN/WEMCO)

25 HP Thru 50 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
WEMCO	79	EWPP	Sludge Transfer Pump	WD	04317-02			40
WEMCO	79	EWPP	Sludge Transfer Pump	WD	97W15913			40
WEMCO	79	EWPP	Sludge Transfer Pump	WD	04317-01			40
WEMCO	79	EWPP	Sludge Transfer Pump	WD	04317-02			40

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP IV (FLOWAY/PEABODY)

25 HP thru 50 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FLOWAY	057	DISTRICT 51 #2		BP1				30
FLOWAY	057	DISTRICT 51 #2		BP2				50
FLOWAY	111	WEST HOUSTON #3		BP1				50
FLOWAY	111	WEST HOUSTON #3		BP2				50
FLOWAY	111	WEST HOUSTON #3		BP3				50
FLOWAY	111	WEST HOUSTON #3		BP4				50

DRINKING WATER OPERATIONS DRY PIT PUMPS								
GROUP IV (FLOWAY/PEABODY)								
51 HP thru 75 HP								
Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FLOWAY	018	BRAESWOOD		BP1				75
FLOWAY	047	DISTRICT 54		BP3				75
DRINKING WATER OPERATIONS DRY PIT PUMPS								
GROUP IV (FLOWAY/PEABODY)								
76 HP thru 125 HP								
Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FLOWAY	074	DSITRICT 71		BP3				100
FLOWAY	003	105 SABINE		BP5				125
FLOWAY	003	105 SABINE		BP6				125
FLOWAY	018	BRAESWOOD		BP3				125
FLOWAY	047	DISTRICT 54		BP1				125
FLOWAY	047	DISTRICT 54		BP2				125
FLOWAY	074	DISTRICT 71		BP1				125
FLOWAY	074	DISTRICT 71		BP2				125
DRINKING WATER OPERATIONS DRY PIT PUMPS								
GROUP IV (FLOWAY/PEABODY)								
201 HP Thru 400 HP								
Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FLOWAY	165	NEWPP		02-P-01	28TKH	47847-5-1	880	300
FLOWAY	165	NEWPP		02-P-02	28TKH	47847-5-2	880	300
FLOWAY	165	NEWPP		02-P-03	28TKH	47847-7-1	880	300

FLOWAY	165	NEWPP		02-P-04	28TKH	55589-1-1	880	300
FLOWAY	165	NEWPP		02-P-05	28TKH	55589-1-2	880	300
FLOWAY	165	NEWPP		05-P-01	34DKL	47847-11-1	880	400
FLOWAY	165	NEWPP		05-P-02	34DKL	47847-11-2	880	400
FLOWAY	165	NEWPP		05-P-03	34DKL	47847-13-1	880	400
FLOWAY	165	NEWPP		05-P-201	34DKL	55589-3-1	880	400
FLOWAY	165	NEWPP		05-P-202	34DKL	55589-3-2	880	400
FLOWAY	165	NEWPP		05-P-203	34DKL	55589-3-3	880	400
FLOWAY	118	EWPP	Transfer Pump	TRSF-P-305	36KMD42-2	0203MS0014661-1		300
FLOWAY	003	105 SABINE		BP4				250

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP IV (FLOWAY/PEABODY)

401 HP thru Larger HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FLOWAY	165	NEWPP		08-P-01	34DKL	55589-6-1	880	800
FLOWAY	165	NEWPP		08-P-02	34DKL	55589-6-2	880	800
FLOWAY	165	NEWPP		08-P-03	34DKL	55589-6-3	880	800
FLOWAY	165	NEWPP		08-P-04	34DKL	55589-6-4	880	800
FLOWAY	165	NEWPP		08-P-06	34DKL	55589-7-1	880	800
FLOWAY	165	NEWPP		08-P-07	34DKL	55589-7-2	880	800
FLOWAY	165	NEWPP		08-P-08	34DKL	55589-7-3	880	800
FLOWAY	165	NEWPP		08-P-05	34DKL	55589-9-1	880	950
FLOWSERVE	79	EWPP	Distribution	C-1		MLDC250	712	1250

FLOWERVE	79	EWPP	Distribution	C-2		MLDC250	712	1250
FLOWERVE	79	EWPP	Distribution	C-3		MLDC250	712	1250
FLOWERVE	79	EWPP	Distribution	C-4		MLDC250	712	1250
FLOWERVE	79	EWPP	Distribution	C-5		GMD17206	592	2500
FLOWERVE	79	EWPP	Distribution	C-6		AMD11251-3	592	2500
FLOWERVE	79	EWPP	Distribution	C-7		AMD11251-3	592	2500
FLOWAY	003	105 SABINE		BP1				500
FLOWAY	003	105 SABINE		BP2				500
FLOWAY	003	105 SABINE		BP3				500

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP V (KSB/SEWATEC)

< 25 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
KSB	165	NEWPP	Dry Pit / Wet Pit	09-P-201	Sewabloc K80-250	5M26719345/1	860	3
KSB	165	NEWPP	Dry Pit / Wet Pit	09-P-202	Sewabloc K80-250	5M26719345/2	860	3
CORNELL	165	NEWPP	Dry Pit / Wet Pit	09-P-01				3
CORNELL	165	NEWPP	Dry Pit / Wet Pit	09-P-02				3

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP VI (MISC PUMPS: WEINMAN/METPRO COPR/THOMPSON/FRANKLIN MILLER/DEAN/DENMIN/GORDON/HYDROMATIC/KROGH)

< 25 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
DEAN	118	EWPP	Recirculating Pump			170476		10.5
DEAN	118	EWPP	Recirculating Pump			170477		10.5
LAYNE	066	PARKGLEN WEST		BP1				20

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP VI (MISC PUMPS: WEINMAN/METPRO COPR/THOMPSON/FRANKLIN MILLER/DEAN/DENMIN/GORDON/HYDROMATIC/KROGH)

25 HP thru 50 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
LAYNE	066	PARKGLEN WEST		BP2				25
CRANE	104	DISTRICT 139		BP1				30
CRANE	104	DISTRICT 139		BP2				30
CRANE	086	MEMORIAL WEST MUD		BP1				30
CRANE	086	MEMORIAL WEST MUD		BP2				30
CRANE	086	MEMORIAL WEST MUD		BP3				50
FLOW SERVICES	069	BROOKFIELD		BP1				30
FLOW SERVICES	069	BROOKFIELD		BP2				30
FLUID POWER	131	DISTRICT 254		BP1				40
FLUID POWER	108	ROSEWOOD #1		BP1				30
LAYNE	066	PARKGLEN WEST		BP3				30
LAYNE	108	ROSEWOOD #1		BP2				30
LAYNE	108	ROSEWOOD #1		BP3				30
LAYNE	083	DISTRICT 111 #2		BP1				40
LAYNE	083	DISTRICT 111 #2		BP2				40
LAYNE	083	DISTRICT 111 #2		BP3				40
PEERLESS	084	DISTRICT 123		BP2				50
WEINMAN	125	BRAES UTILITY		BP1				40
WEINMAN	125	BRAES UTILITY		BP2				40
WEINMAN	125	BRAES UTILITY		BP3				40

WESTINGHOUSE	030	SHARPSTOWN #2		BP2			50
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DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP VI (MISC PUMPS: WEINMAN/METPRO COPR/THOMPSON/FRANKLIN MILLER/DEAN/DENMIN/GORDON/HYDROMATIC/KROGH)

51 HP thru 75 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
CRANE	104	DISTRICT 139		BP3				60
CRANE	014	BIA PLANT		BP3				75
CRANE	014	BIA PLANT		BP4				75
CRANE	014	BIA PLANT		BP5				75
CRANE	014	BIA PLANT		BP6				75
CRANE	085	DISTRICT 184		BP3				75
CRANE	085	DISTRICT 184		BP4				75
CRANE	085	DISTRICT 184		BP5				75
CRANE	106	DISTRICT 218		BP4				75
CRANE	106	DISTRICT 218		BP5				75
FLUID POWER	108	ROSEWOOD #1		BP4				60
LAYNE	018	BRAESWOOD		BP2				75
PEERLESS	084	DISTRICT 123		BP3				75
PEERLESS	138	DISTRICT 266		BP1				60
PEERLESS	138	DISTRICT 266		BP2				60
PEERLESS	138	DISTRICT 266		BP3				60

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP VI (MISC PUMPS: WEINMAN/METPRO COPR/THOMPSON/FRANKLIN MILLER/DEAN/DENMIN/GORDON/HYDROMATIC/KROGH)

76 HP thru 125 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
JOHNSTON	79	EWPP	Transfer Pump	TRSF-P-B-1		HO603053062-100R	875	125
PEERLESS	79	EWPP	Transfer Pump	TRSF-P-B-8			880	125
PEERLESS	79	EWPP	Transfer Pump	TRSF-P-E-2	5K6268XN544A		785	125
CRANE	098	BIA #2		BP1				125
CRANE	085	DISTRICT 184		BP2				125
CRANE	085	DISTRICT 184		BP6				125
CRANE	106	DISTRICT 218		BP2				125
CRANE	130	INTERWOOD		BP1				125
CRANE	130	INTERWOOD		BP2				125
PEERLESS	084	DISTRICT 123		BP4				100
PEERLESS	084	DISTRICT 123		BP5				100
MARATHON	030	SHARPSTOWN #2		BP3				125

DRINKING WATER OPERATIONS DRY PIT PUMPS

GROUP VI (MISC PUMPS: WEINMAN/METPRO COPR/THOMPSON/FRANKLIN MILLER/DEAN/DENMIN/GORDON/HYDROMATIC/KROGH)

126 HP thru 200 HP

Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
JOHNSTON	79	EWPP	Transfer Pump	TRSF-P-B-10		70164A	890	150
JOHNSTON	79	EWPP	Transfer Pump	TRSF-P-B-11		70164A	890	150
	79	EWPP	Transfer Pump	TRSF-P-B-2	11417-117049-M	70198	190	150
JOHNSTON	79	EWPP	Transfer Pump	TRSF-P-B-3		XTS58104	885	150

CRANE	098	BIA #2		BP2				150
CRANE	014	BIA PLANT		BP1				150
CRANE	014	BIA PLANT		BP2				150
CRANE	106	DISTRICT 218		BP3				150
CRANE	090	CHASEWOOD		BP1				200
CRANE	090	CHASEWOOD		BP2				200
CRANE	090	CHASEWOOD		BP3				200
PEERLESS	084	DISTRICT 123		BP6				200
DRINKING WATER OPERATIONS DRY PIT PUMPS								
GROUP VI (MISC PUMPS: WEINMAN/METPRO COPR/THOMPSON/FRANKLIN MILLER/DEAN/DENMIN/GORDON/HYDROMATIC/KROGH)								
<i>401 HP thru Larger HP</i>								
Pump Manufacturer	Facility	Facility Name	Pump Type	Pump	Pump Model	Pump Serial	Pump Rated RPM	Motor Horse Power
FLOW SERVICES	005	KATY ADDICKS RE-PUMP		BP1		03006MS002		500
FLOW SERVICES	005	KATY ADDICKS RE-PUMP		BP5	350LNN575	0306MD0022		500
JOHNSTON	010	SOUTHWEST PLANT		BP1		98JB2912-C		1000
JOHNSTON	010	SOUTHWEST PLANT		BP2		98JB2912-A		1000
JOHNSTON	010	SOUTHWEST PLANT		BP3		98JB2912-D		1000
JOHNSTON	010	SOUTHWEST PLANT		BP4		98JB2912-B		1000
JOHNSTON	010	SOUTHWEST PLANT		BP5		98JB2912-E		1000
JOHNSTON	010	SOUTHWEST PLANT		BP6		98JB2912-F		1000

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- * I. CITY'S CONTRACTORS PAY OR PLAY PROGRAM

* Note: These Exhibits and Appendices shall be inserted into the contract Agreement at the time of contract execution.

3.0 PARTS INCORPORATED

3.1 The above described sections and exhibits are incorporated into this Agreement.

4.0 CONTROLLING PARTS

4.1 If a conflict among the sections or exhibits arises, the Exhibits control over the Sections.

5.0 DEFINITIONS

5.1 Certain terms used in this Agreement are defined in Exhibit "A."

6.0 SIGNATURES

6.1 The Parties have executed this Agreement in multiple copies, each of which is an original.

ATTEST/SEAL: (if a corporation)

WITNESS: (if not corporation)

By: _____

Name:

Title:

By: _____

Name:

Title:

Federal Tax ID Number: _____

ATTEST/SEAL:

CITY OF HOUSTON, TEXAS

Signed by:

City Secretary

Mayor

APPROVED:

COUNTERSIGNED BY:

City Purchasing Agent

City Controller

DATE COUNTERSIGNED:

This contract has been reviewed as to form by the undersigned legal assistant and has been found to meet established Legal Department criteria. The Legal Department has not reviewed the content of these documents.

Date

Legal Assistant

III. DUTIES OF CONTRACTOR

1.0 SCOPE OF SERVICES

- 1.1 In consideration of the payments specified in this Agreement, Contractor shall provide all supervision, labor, tools, equipment, permits, parts, expendable items, material, and supplies necessary to perform the services described in Exhibits "B, B1 and B2."

2.0 RELEASE

- 2.1 PRIME CONTRACTOR/SUPPLIER AGREES TO AND SHALL RELEASE THE CITY, ITS AGENTS, EMPLOYEES, OFFICERS, AND LEGAL REPRESENTATIVES (COLLECTIVELY THE CITY) FROM ALL LIABILITY FOR INJURY, DEATH, DAMAGE, OR LOSS TO PERSONS OR PROPERTY SUSTAINED IN CONNECTION WITH OR INCIDENTAL TO PERFORMANCE UNDER THIS AGREEMENT, EVEN IF THE INJURY, DEATH, DAMAGE, OR LOSS IS CAUSED BY THE CITY'S SOLE OR CONCURRENT NEGLIGENCE AND/OR THE CITY'S STRICT PRODUCTS LIABILITY OR STRICT STATUTORY LIABILITY.

3.0 INDEMNIFICATION

- 3.1 PRIME CONTRACTOR/SUPPLIER AGREES TO AND SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY, ITS AGENTS, EMPLOYEES, OFFICERS, AND LEGAL REPRESENTATIVES (COLLECTIVELY "THE CITY") HARMLESS FOR ALL CLAIMS, CAUSES OF ACTION, LIABILITIES, FINES, AND EXPENSES (INCLUDING, WITHOUT LIMITATION, ATTORNEY'S FEES, COURT COSTS, AND ALL OTHER DEFENSE COSTS AND INTEREST) FOR INJURY, DEATH, DAMAGE, OR LOSS TO PERSONS OR PROPERTY SUSTAINED IN CONNECTION WITH OR INCIDENTAL TO PERFORMANCE UNDER THIS AGREEMENT INCLUDING, WITHOUT LIMITATION, THOSE CAUSED BY:
- 3.1.1 PRIME CONTRACTOR/SUPPLIER AND/OR ITS AGENTS', EMPLOYEES', OFFICERS', DIRECTORS', CONTRACTORS', OR SUBCONTRACTORS' (COLLECTIVELY IN NUMBERED PARAGRAPHS 2.1-3.2, "CONTRACTOR") ACTUAL OR ALLEGED NEGLIGENCE OR INTENTIONAL ACTS OR OMISSIONS;
 - 3.1.2 THE CITY'S AND PRIME CONTRACTOR/SUPPLIER ACTUAL OR ALLEGED CONCURRENT NEGLIGENCE, WHETHER CONTRACTOR IS IMMUNE FROM LIABILITY OR NOT; AND
 - 3.1.3 THE CITY'S AND PRIME CONTRACTOR/SUPPLIER ACTUAL OR ALLEGED STRICT PRODUCTS LIABILITY OR STRICT STATUTORY LIABILITY, WHETHER CONTRACTOR IS IMMUNE FROM LIABILITY OR NOT.
 - 3.1.4 PRIME CONTRACTOR/SUPPLIER SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY HARMLESS DURING THE TERM OF THIS CONTRACT AND FOR FOUR YEARS AFTER THE CONTRACT TERMINATES. CONTRACTOR'S INDEMNIFICATION IS LIMITED TO \$500,000.00 PER OCCURRENCE. CONTRACTOR SHALL NOT INDEMNIFY THE CITY FOR THE CITY'S SOLE NEGLIGENCE.
- 3.2 CONTRACTOR SHALL REQUIRE ALL OF ITS SUBCONTRACTORS (AND THEIR SUBCONTRACTORS) TO RELEASE AND INDEMNIFY THE CITY TO THE SAME EXTENT AND IN SUBSTANTIALLY THE SAME FORM AS ITS RELEASE AND INDEMNITY TO THE CITY.

4.0 **INDEMNIFICATION PROCEDURES**

- 4.1 **Notice of Claims.** If the City or Prime Contractor/Supplier receives notice of any claim or circumstances, which could give rise to an indemnified loss, the receiving party shall give written notice to the other party within 10 days. The notice must include the following:
- 4.1.1 a description of the indemnification event in reasonable detail, and
 - 4.1.2 the basis on which indemnification may be due, and
 - 4.1.3 the anticipated amount of the indemnified loss.
- 4.2 This notice does not stop or prevent the City from later asserting a different basis for indemnification or a different amount of indemnified loss than that indicated in the initial notice. If the City does not provide this notice within the 10-day period, it does not waive any right to indemnification except to the extent that Prime Contractor/Supplier is prejudiced, suffers loss, or incurs expense because of the delay.
- 4.3 **Defense of Claims**
- 4.3.1 **Assumption of Defense.** Prime Contractor/Supplier may assume the defense of the claim at its own expense with counsel chosen by it that is reasonably satisfactory to the City. Prime Contractor/Supplier shall then control the defense and any negotiations to settle the claim. Within 10 days after receiving written notice of the indemnification request, Prime Contractor/Supplier must advise the City as to whether or not it will defend the claim. If Prime Contractor/Supplier does not assume the defense, the City shall assume and control the defense, and all defense expenses constitute an indemnification loss.
 - 4.3.2 **Continued Participation.** If Prime Contractor/Supplier elects to defend the claim, the City may retain separate counsel to participate in (but not control) the defense and to participate in (but not control) any settlement negotiations. Prime Contractor/Supplier may settle the claim without the consent or Agreement of the City, unless it (i) would result in injunctive relief or other equitable remedies or otherwise require the City to comply with restrictions or limitations that adversely affect the City, (ii) would require the City to pay amounts that Prime Contractor/Supplier does not fund in full, (iii) would not result in the City's full and complete release from all liability to the plaintiffs or claimants who are parties to or otherwise bound by the settlement.

5.0 **INSURANCE**

- 5.1 Contractor shall maintain in effect certain insurance coverage and shall furnish certificates of insurance, in duplicate form, before beginning its performance under this Agreement. All policies except Professional Liability and Workers' Compensation must name the City as an additional insured. The issuer of any policy (1) shall have a Certificate of Authority to transact insurance business in Texas or (2) shall be an eligible non-admitted insurer in the State of Texas and have a Best's rating of at least B+ and a Best's Financial Size Category of Class VI or better, according to the most current edition **Best's Key Rating Guide**. Contractor shall maintain the following insurance coverage in the following amounts:
- 5.1.1 Commercial General Liability insurance including Contractual Liability insurance:
\$500,000 per occurrence; \$1,000,000 aggregate
 - 5.1.2 Workers' Compensation including Broad Form All States endorsement:
Statutory amount

- 5.1.3 Automobile Liability insurance
\$1,000,000 combined single limit per occurrence

Defense costs are excluded from the face amount of the policy
Aggregate Limits are per 12-month policy period unless otherwise indicated

- 5.1.4 Employer's Liability
 - Bodily injury by accident \$100,000 (each accident)
 - Bodily injury by disease \$100,000 (policy limit)
 - Bodily injury by disease \$100,000 (each employee)

5.2 All insurance policies must require on their face, or by endorsement, that the insurance carrier waives any rights of subrogation against the City, Contractor shall give 30 days written notice to the Director if any of its insurance policies are cancelled, materially changed or non-renewed. Within the 30 day period, Contractor shall provide other suitable policies in lieu of those about to be canceled, materially changed, or non-renewed so as to maintain in effect the required coverage. If Contractor does not comply with this requirement, the Director, at his or sole discretion, may:

- 5.2.1 immediately suspend Contractor from any further performance under this Agreement and begin procedures to terminate for default, or
- 5.2.2 purchase the required insurance with City funds and deduct the cost of the premiums from amounts due to Contractor under this Agreement.

6.0 WARRANTIES

- 6.1 Contractor represents and warrants that it shall perform all work in a good and workmanlike manner, meeting the standards of quality prevailing in Harris County, Texas for work of this kind. Contractor shall perform all work using trained and skilled persons having substantial experience performing the work required under this Agreement.
- 6.2 With respect to any parts and goods furnished by it, Contractor warrants:
 - 6.2.1 that all items are free of defects in title, material, and workmanship,
 - 6.2.2 that each item meets or exceeds the manufacturer's specifications and requirements for the equipment, structure, or other improvement in which the item is installed,
 - 6.2.3 that each replacement item is new in accordance with original equipment manufacturer's specifications, and of a quality at least as good as the quality of the item which it replaces (when the replaced item was new), and
 - 6.2.4 that no item or its use infringes any patent, copyright, or proprietary right.

7.0 LICENSES AND PERMITS

- 7.1 Contractor shall obtain and pay for all licenses, permits, and certificates required by any statute, ordinance, rule, or regulation.

8.0 COMPLIANCE WITH EQUAL OPPORTUNITY ORDINANCE

- 8.1 Contractor shall comply with the City's Equal Employment Opportunity Ordinance as set out in Exhibit "C."

9.0 M/WBE COMPLIANCE

- 9.1 Contractor shall comply with the City's Minority and Women Business Enterprise ("M/WBE") programs as set out in Chapter 15, Article V of the City of Houston Code of Ordinances. Contractor shall make good faith efforts to award subcontracts or supply Agreements in at least **15%** of the value of this Agreement to M/WBEs. Contractor acknowledges that it has reviewed the requirements for good faith efforts on file with the City's Office of Business Opportunity (OBO) and will comply with them.
- 9.2 Contractor shall require written subcontracts with all M/WBE subcontractors and shall submit all disputes with M/WBEs to binding arbitration in Houston, Texas if directed to do so by the Office of Business Opportunity Director. M/WBE subcontracts must contain the terms set out in Exhibit "D." If Contractor is an individual person (as distinguished from a corporation, partnership, or other legal entity), and the amount of the subcontract is \$50,000 or less, the subcontract must also be signed by the attorneys of the respective parties.

10.0 DRUG ABUSE DETECTION AND DETERRENCE

- 10.1 It is the policy of the City to achieve a drug-free workforce and workplace. The manufacture, distribution, dispensation, possession, sale, or use of illegal drugs or alcohol by Contractors while on City Premises is prohibited. Contractor shall comply with all the requirements and procedures set forth in the Mayor's Drug Abuse Detection and Deterrence Procedures for Contractors, Executive Order No. 1-31 ("Executive Order"), which is incorporated into this Agreement and is on file in the City Secretary's Office.
- 10.2 Before the City signs this Agreement, Contractor shall file with the Contract Compliance Officer for Drug Testing ("CCODT"):
- 10.2.1 a copy of its drug-free workplace policy,
 - 10.2.2 the Drug Policy Compliance Agreement substantially in the form set forth in Exhibit "E," together with a written designation of all safety impact positions, and
 - 10.2.3 if applicable (e.g. no safety impact positions), the Certification of No Safety Impact Positions, substantially in the form set forth in Exhibit "F."
- 10.3 If Contractor files a written designation of safety impact positions with its Drug Policy Compliance Agreement, it also shall file every 6 months during the performance of this Agreement or on completion of this Agreement if performance is less than 6 months, a Drug Policy Compliance Declaration in a form substantially similar to Exhibit "G." Contractor shall submit the Drug Policy Compliance Declaration to the CCODT within 30 days of the expiration of each 6-month period of performance, and within 30 days of completion of this Agreement. The first 6-month period begins to run on the date the City issues its Notice to Proceed, or if no Notice to Proceed is issued, on the first day Contractor begins work under this Agreement.
- 10.4 Contractor also shall file updated designations of safety impact positions with the CCODT if additional safety impact positions are added to Contractor's employee workforce.
- 10.5 Contractor shall require that its subcontractors comply with the Executive Order, and Contractor shall secure and maintain the required documents for City inspection.

11.0 ENVIRONMENTAL LAWS

- 11.1 Contractor shall comply with all rules, regulations, statutes, or orders of the Environmental Protection Agency ("EPA"), the Texas Commission on Environmental Quality ("TCEQ"), and any other governmental agency with the authority to promulgate environmental rules and regulations ("Environmental Laws"). Contractor shall promptly reimburse the City for any fines or penalties levied against the City because of Contractor's failure to comply.
- 11.2 Contractor shall not possess, use, generate, release, discharge, store, dispose of, or transport any Hazardous Materials on, under, in, above, to, or from the site except in strict compliance with the Environmental Regulations. "Hazardous Materials" means any substances, materials, or wastes that are or become regulated as hazardous or toxic substances under any applicable federal, state, or local laws, regulations, ordinances, or orders. Contractor shall not deposit oil, gasoline, grease, lubricants or any ignitable or hazardous liquids, materials, or substances in the City's storm sewer system or sanitary sewer system or elsewhere on City Property in violation of the Environmental Laws.

12.0 CITY'S CONTRACTOR PAY OR PLAY PROGRAM

- 12.1 The requirement and terms of the City of Houston Pay or Play Policy, as set out in Executive Order 1-7, are incorporated into this Agreement for all purposes. Contractor has reviewed Executive Order 1-7 and shall comply with its terms and conditions as they are set out at the time of City Council approval of this Agreement.
- 12.2 The Pay or Play Program for various departments will be administered by the City of Houston Office of Business Opportunity designee and for a Department specific contract; the Department's designated contract administrator will administer the Pay or Play Program.

13.0 CONTRACTOR'S PERFORMANCE

- 13.1 Contractor shall make citizen satisfaction a priority in providing services under this Agreement. Contractor shall train its employees to be customer service-oriented and to positively and politely interact with citizens when performing contract services. Contractor's employees shall be clean, courteous, efficient, and neat in appearance and committed to offering the highest quality of service to the public. If, in the Director's opinion, Contractor is not interacting in a positive and polite manner with citizens, he or she shall direct Contractor to take all remedial steps to conform to these standards.

14.0 PAYMENT OF EMPLOYEES AND SUBCONTRACTORS

- 14.1 Contractor shall make timely payments in accordance with applicable state and federal law to all persons and entities supplying labor, materials or equipment for the performance of this Agreement including Contractor's employees.
- 14.2 Failure of Contractor to pay its employees as required by law shall constitute a default under this contract for which the Contractor and its surety shall be liable on Contractor's performance bond if Contractor fails to cure the default as provided under this Agreement.
- 14.3 Contractor shall defend and indemnify the City from any claims or liability arising out of Contractor's failure to pay its subcontractors as required by law. Contractor shall submit disputes relating to payment of M/WBE subcontractors to arbitration in the same manner as any other disputes under the M/WBE subcontract.

IV. DUTIES OF CITY

1.0 PAYMENT TERMS

1.1 The City shall pay and Contractor shall accept fees provided in Exhibit "H" for all services rendered and the Deliverables furnished by Contractor. The fees must only be paid from Allocated Funds, as provided below.

2.0 TAXES

2.1 The City is exempt from payment of Federal Excise and Transportation Tax and Texas Limited Sales and Use Tax. Contractor's invoices to the City must not contain assessments of any of these taxes. The Director will furnish the City's exemption certificate and federal tax identification number to Contractor if requested.

3.0 METHOD OF PAYMENT

3.1 The City shall pay Contractor on the basis of invoices submitted by Contractor and approved by the Director, showing the specific tasks completed in the preceding month and the corresponding prices. The City shall make payments to Contractor at its address for notices within 30 days upon receipt of an approved invoice.

4.0 METHOD OF PAYMENT - DISPUTED PAYMENTS

4.1 If the City disputes any items in an invoice Contractor submits for any reason, including lack of supporting documentation, the Director shall temporarily delete the disputed item and pay the remainder of the invoice. The Director shall promptly notify Contractor of the dispute and request remedial action. After the dispute is settled, Contractor shall include the disputed amount on a subsequent regularly scheduled invoice or on a special invoice for the disputed item only.

5.0 LIMIT OF APPROPRIATION:

5.1 The City's duty to pay money to Contractor under this Agreement is limited in its entirety by the provisions of this Section.

5.2 In order to comply with Article II, Sections 19 and 19a of the City's Charter and Article XI, Section 5 of the Texas Constitution, the City has appropriated and allocated the sum of \$_____ to pay money due under this Agreement (the "Original Allocation"). The executive and legislative officers of the City, in their discretion, may allocate supplemental funds for this Agreement, but they are not obligated to do so. Therefore, the parties have agreed to the following procedures and remedies:

5.3 The City makes a Supplemental Allocation by issuing to Contractor a Service Release Order, or similar form approved by the City Controller, containing the language set out below. When necessary, the Supplemental Allocation shall be approved by motion or ordinance of City Council.

"NOTICE OF SUPPLEMENTAL ALLOCATION OF FUNDS"

"By the signature below, the City Controller certifies that, upon the request of the responsible Director, the supplemental sum set out below has been allocated for the purposes of the Agreement out of funds appropriated for this purpose by the City Council of the City of Houston. This supplemental allocation has been charged to such appropriation."

- 5.4 The Original Allocation plus all supplemental allocations are the Allocated Funds. The City shall never be obligated to pay any money under this Agreement in excess of the Allocated Funds. Contractor must assure itself that sufficient allocations have been made to pay for services it provides. If Allocated Funds are exhausted, Contractor's only remedy is suspension or termination of its performance under this Agreement and it has no other remedy in law or in equity against the City and no right to damages of any kind.

6.0 CHANGES

- 6.1 At any time during the Agreement Term, the City Purchasing Agent or Director may issue a Change Order to increase or decrease the scope of services or change plans and specifications, as he or she may find necessary to accomplish the general purposes of this Agreement. Contractor shall furnish the services or deliverables in the Change Order in accordance with the requirements of this Agreement plus any special provisions, specifications, or special instructions issued to execute the extra work.
- 6.2 The City Purchasing Agent or Director will issue the Change Order in substantially the following form:

CHANGE ORDER

TO: [Name of Contractor]
FROM: City of Houston, Texas (the "City")
DATE: [Date of Notice]
SUBJECT: Change Order under the Agreement between the City and [Name of Contractor] countersigned by the City Controller on [Date of countersignature of the Agreement]

Subject to all terms and conditions of the Agreement, the City requests that Contractor provide the following:

[Here describe the additions to or changes to the equipment or services and the Change Order Charges applicable to each.]

Signed:
[Signature of City Purchasing Agent or Director]

- 6.3 The City Purchasing Agent or Director may issue more than one Change Order, subject to the following limitations:
- 6.3.1 Council expressly authorizes the City Purchasing Agent or Director to approve a Change Order of up to \$25,000. A Change Order of more than \$25,000 over the approved contract amount must be approved by the City Council.
- 6.3.2 If a Change Order describes items that Contractor is otherwise required to provide under this Agreement, the City is not obligated to pay any additional money to Contractor.

- 6.3.3 The total of all Change Orders issued under this section may not increase the Original Agreement amount by more than 25%.
- 6.4 Whenever Contractor receives a Change Order, Contractor shall furnish all material, equipment, and personnel necessary to perform the work described in the Change Order. Contractor shall complete the work within the time prescribed. If no time for completion is prescribed, Contractor shall complete the work within a reasonable time. If the work described in any Change Order causes an unavoidable delay in any other work Contractor is required to perform under this Agreement, Contractor may request a time extension for the completion of the work. The City Purchasing Agent's or Director's decision regarding a time extension is final.
- 6.5 A product or service provided under a Change Order is subject to inspection, acceptance, or rejection in the same manner as the work described in the Original Agreement, and is subject to the terms and conditions of the Original Agreement as if it had originally been a part of the Agreement.
- 6.6 Change Orders are subject to the Allocated Funds provisions of this Agreement.

V. TERM AND TERMINATION

1.0 CONTRACT TERM

- 1.1 This Agreement is effective on the Countersignature Date and expires three (3) years after the starting date specified in the Notice to Proceed unless sooner terminated according to the terms of this Agreement.

2.0 NOTICE TO PROCEED

- 2.1 Contractor shall begin performance under this Agreement on the date specified in a Notice to Proceed from the City Purchasing Agent.

3.0 RENEWALS

- 3.1 Upon expiration of the Initial Term, and so long as the City makes sufficient supplemental allocations, this Agreement will be automatically renewed for two successive one-year terms on the same terms and conditions. If the Director/Chief of the City Department elects not to renew this Agreement, the City Purchasing Agent shall notify Contractor in writing of non-renewal at least 30 days before the expiration of the then current term.

4.0 TIME EXTENSIONS

- 4.1 If Department requests an extension of time to complete its performance, then the City Purchasing Agent may, in his or her sole discretion, extend the time so long as the extension does not exceed 90 days. The extension must be in writing but does not require amendment of this Agreement. Contractor is not entitled to damages for delay(s) regardless of the cause of the delay(s).

5.0 TERMINATION FOR CONVENIENCE BY THE CITY

- 5.1 The City Purchasing Agent or Director may terminate this Agreement at any time by giving 30 days written notice to Contractor. The City's right to terminate this Agreement for convenience is cumulative of all rights and remedies, which exist now or in the future.

- 5.2 On receiving the notice, Contractor shall, unless the notice directs otherwise, immediately discontinue all services under this Agreement and cancel all existing orders and subcontracts that are chargeable to this Agreement. As soon as practicable after receiving the termination notice, Contractor shall submit an invoice showing in detail the services performed under this Agreement up to the termination date. The City shall then pay the fees to Contractor for services actually performed, but not already paid for, in the same manner as prescribed in Section III unless the fees exceed the allocated funds remaining under this Agreement.
- 5.3 TERMINATION OF THIS AGREEMENT AND RECEIPT OF PAYMENT FOR SERVICES RENDERED ARE CONTRACTOR'S ONLY REMEDIES FOR THE CITY'S TERMINATION FOR CONVENIENCE, WHICH DOES NOT CONSTITUTE A DEFAULT OR BREACH OF THIS AGREEMENT. CONTRACTOR WAIVES ANY CLAIM (OTHER THAN ITS CLAIM FOR PAYMENT AS SPECIFIED IN THIS SECTION), IT MAY HAVE NOW OR IN THE FUTURE FOR FINANCIAL LOSSES OR OTHER DAMAGES RESULTING FROM THE CITY'S TERMINATION FOR CONVENIENCE.

6.0 TERMINATION FOR CAUSE BY CITY

- 6.1 If Contractor defaults under this Agreement, the City Purchasing Agent or Director may either terminate this Agreement or allow Contractor to cure the default as provided below. The City's right to terminate this Agreement for Contractor's default is cumulative of all rights and remedies, which exist now or in the future. Default by Contractor occurs if:
- 6.1.1 Contractor fails to perform any of its duties under this Agreement;
 - 6.1.2 Contractor becomes insolvent;
 - 6.1.3 All or a substantial part of Contractor's assets are assigned for the benefit of its creditors;
or
 - 6.1.4 A receiver or trustee is appointed for Contractor.
- 6.2 If a default occurs, the City Purchasing Agent or Director may, but is not obligated to, deliver a written notice to Contractor describing the default and the termination date. The City Purchasing Agent or Director, at his or her sole option, may extend the termination date to a later date. If the City Purchasing Agent or Director allows Contractor to cure the default and Contractor does so to the City Purchasing Agent's or Director's satisfaction before the termination date, then the termination is ineffective. If Contractor does not cure the default before the termination date, then the City Purchasing Agent or Director may terminate this Agreement on the termination date, at no further obligation of the City.
- 6.3 To effect final termination, the City Purchasing Agent or Director must notify Contractor in writing. After receiving the notice, Contractor shall, unless the notice directs otherwise, immediately discontinue all services under this Agreement, and promptly cancel all orders or subcontracts chargeable to this Agreement.

7.0 TERMINATION FOR CAUSE BY CONTRACTOR

- 7.1 Contractor may terminate its performance under this Agreement only if the City defaults and fails to cure the default after receiving written notice of it. Default by the City occurs if the City fails to perform one or more of its material duties under this Agreement. If a default occurs and Contractor wishes to terminate the Agreement, then Contractor must deliver a written notice to the Director describing the default and the proposed termination date.

7.2 The date must be at least 30 days after the Director receives notice. Contractor, at its sole option, may extend the proposed termination date to a later date. If the City cures the default before the proposed termination date, then the proposed termination is ineffective. If the City does not cure the default before the proposed termination date, then Contractor may terminate its performance under this Agreement on the termination date.

8.0 REMOVAL OF CONTRACTOR OWNED EQUIPMENT AND MATERIALS

8.1 Upon expiration, or termination of this Agreement, Contractor is permitted ten (10) days within which to remove contractor-owned material and equipment from the City's premises. The City shall make such material and equipment readily available to Contractor. The time period may be extended upon approval by the Director. The City reserves the right to deny any extension of time.

VI. MISCELLANEOUS

1.0 INDEPENDENT CONTRACTOR

1.1 Contractor shall perform its obligations under this Agreement as an independent Contractor and not as an employee of the City.

2.0 FORCE MAJEURE

2.1 Timely performance by both parties is essential to this Agreement. However, neither party is liable for delays or other failures to perform its obligations under this Agreement to the extent the delay or failure is caused by Force Majeure. Force Majeure means fires, floods, explosions, and other acts of God, war, terrorist acts, riots, court orders, and the acts of superior governmental or military authority.

2.2 This relief is not applicable unless the affected party does the following:

2.2.1 Uses due diligence to remove the Force Majeure as quickly as possible, and

2.2.2 Provides the other party with prompt written notice of the cause and its anticipated effect.

2.3 The City may perform contract functions itself or contract them out during periods of Force Majeure. Such performance does not constitute a default or breach of this Agreement by the City.

2.4 If the Force Majeure continues for more than 30 days, the City Purchasing Agent or Director may terminate this Agreement by giving 30 days written notice to Contractor. This termination is not a default or breach of this Agreement. CONTRACTOR WAIVES ANY CLAIM IT MAY HAVE FOR FINANCIAL LOSSES OR OTHER DAMAGES RESULTING FROM THE TERMINATION EXCEPT FOR AMOUNTS DUE UNDER THE AGREEMENT AT THE TIME OF THE TERMINATION.

3.0 SEVERABILITY

3.1 If any part of this Agreement is for any reason found to be unenforceable, all other parts remain enforceable unless the result materially prejudices either party.

4.0 ENTIRE AGREEMENT

4.1 This Agreement merges the prior negotiations and understandings of the Parties and embodies the entire agreement of the Parties. No other agreements, assurances, conditions, covenants (express or implied), or other terms of any kind exist between the Parties regarding this Agreement.

5.0 WRITTEN AMENDMENT

5.1 Unless otherwise specified elsewhere in this Agreement, this Agreement may be amended only by written instrument executed on behalf of the City (by authority of an ordinance duly adopted by the City Council) and Contractor. The Director is only authorized to perform the functions specifically delegated to him or her in this Agreement.

6.0 APPLICABLE LAWS

6.1 This Agreement is subject to the laws of the State of Texas, the City Charter and Ordinances, the laws of the federal government of the United States, and all rules and regulations of any regulatory body or officer having jurisdiction.

6.2 Venue for any litigation relating to this Agreement is Harris County, Texas.

7.0 NOTICES

7.1 All notices to either party to the Agreement must be in writing and must be delivered by hand, facsimile, United States registered or certified mail, return receipt requested, United States Express Mail, Federal Express, Airborne Express, UPS or any other national overnight express delivery service. The notice must be addressed to the party to whom the notice is given at its address set out in Section I of this Agreement or other address the receiving party has designated previously by proper notice to the sending party. Postage or delivery charges must be paid by the party giving the notice.

8.0 NON-WAIVER

8.1 If either party fails to require the other to perform a term of this Agreement, that failure does not prevent the party from later enforcing that term and all other terms. If either party waives the other's breach of a term, that waiver does not waive a later breach of this Agreement.

8.2 An approval by the Director, or by any other employee or agent of the City, of any part of Contractor's performance does not waive compliance with this Agreement or establish a standard of performance other than that required by this Agreement and by law. The Director is not authorized to vary the terms of this Agreement.

9.0 INSPECTIONS AND AUDITS

9.1 City representatives may perform, or have performed, (1) audits of Contractor's books and records, and (2) inspections of all places where work is undertaken in connection with this Agreement. Contractor shall keep its books and records available for this purpose for at least 3 years after this Agreement terminates. This provision does not affect the applicable statute of limitations.

10.0 ENFORCEMENT

10.1 The City Attorney or his or her designee may enforce all legal rights and obligations under this Agreement without further authorization. Contractor shall provide to the City Attorney all documents and records that the City Attorney requests to assist in determining Contractor's compliance with this Agreement, with the exception of those documents made confidential by federal or State law or regulation.

11.0 AMBIGUITIES

11.1 If any term of this Agreement is ambiguous, it shall not be construed for or against any party on the basis that the party did or did not write it.

12.0 SURVIVAL

12.1 Contractor shall remain obligated to the City under all clauses of this Agreement that expressly or by their nature extend beyond the expiration or termination of this Agreement, including but not limited to, the indemnity provisions.

13.0 PARTIES IN INTEREST

13.1 This Agreement does not bestow any rights upon any third party, but binds and benefits the City and Contractor only.

14.0 SUCCESSORS AND ASSIGNS

14.1 This Agreement binds and benefits the Parties and their legal successors and permitted assigns; however, this provision does not alter the restrictions on assignment and disposal of assets set out in the following paragraph. This Agreement does not create any personal liability on the part of any officer or agent of the City.

15.0 BUSINESS STRUCTURE AND ASSIGNMENTS

15.1 Contractor shall not assign this Agreement at law or otherwise or dispose of all or substantially all of its assets without the City Purchasing Agent's or Director's prior written consent. Nothing in this clause, however, prevents the assignment of accounts receivable or the creation of a security interest under Section 9.406(c) of the Texas Business & Commerce Code. In the case of such an assignment, Contractor shall immediately furnish the City with proof of the assignment and the name, telephone number, and address of the Assignee and a clear identification of the fees to be paid to the Assignee.

15.2 Contractor shall not delegate any portion of its performance under this Agreement without the City Purchasing Agent's or Director's prior written consent.

16.0 REMEDIES CUMULATIVE

16.1 Unless otherwise specified elsewhere in this Agreement, the rights and remedies contained in this Agreement are not exclusive, but are cumulative of all rights and remedies which exist now or in the future. Neither party may terminate its duties under this Agreement except in accordance with its provisions.

17.0 CONTRACTOR DEBT

- 17.1 If Contractor, at any time during the term of this Agreement, incurs a debt, as the word is defined in Section 15-122 of the Houston City Code of Ordinances, it shall immediately notify the City Controller in writing. If the City Controller becomes aware that Contractor has incurred a debt, she shall immediately notify Contractor in writing. If Contractor does not pay the debt within 30 days of either such notification, the City Controller may deduct funds in an amount equal to the debt from any payments owed to Contractor under this Agreement, and Contractor waives any recourse therefore.

EXHIBIT A DEFINITIONS

As used in this Agreement, the following terms have the meanings set out below:

"Additional Services" shall mean other services to repair systems associated with the pump, not otherwise described in this specification, to bring the equipment to the working conditions agreeable to the Director and Contractor.

"Agreement" means this contract between the Parties, including all exhibits, change orders, and any written amendments authorized by City Council and Contractor.

"City" is defined in the preamble of this Agreement and includes its successors and assigns.

"City of Houston Normal Business Hours" shall mean 8:00 a.m. to 5:00 p.m., Monday to Friday, except on days which are considered City holidays.

"City Purchasing Agent" is defined as the person or duly authorized successor, authorized in writing to act for the City. The term includes, except as otherwise provided in this Contract, the authorized representative of the City Purchasing Agent acting within the limits of delegated authority.

"Contract Administrator" means the representative of the Appropriate Department who is responsible for the administration for the Contract.

"Contract Award Notice" means the official notification substantiated by the Notice to Proceed issued by the City Purchasing Agent to the Contractor.

"Contract Charges" means charges that accrue during a given month as defined in Article III.

"Contract Term" is defined in Article IV.

"Contractor" is defined in the preamble of this Agreement and includes its successors and assigns.

"Contractor's Facility" shall mean place of business of the Contractor where the Contractor performs repairs of equipment and machinery for other entities, specifically where the Contractor plans to repair City of Houston pumps of the model and size described in these specifications. The facility shall be equipped with the needed overhead/jib crane(s), lathe(s), drill(s), ovens, pressure washing machine, meggers, coil testers, balancing machine, paint booth, hydraulic press(es), and testing equipment to do the necessary repair/replacement work for the largest pump in the group. The facility shall be clean, free from dirt and dust, to prevent contamination and damage during assembly of the pumps and installation of bearings and gears.

"Contractor's Standard Business Hours" shall mean the daily eight (8) hour period Monday through Friday, which the contractor has established as their normal business day.

"Contract Technical Representative" (CTR) shall mean the representatives of the Director of the Appropriate Department assigned to administer the Long-Term, Budget, and INVOICE authorization as well as day-to-day activities of the Contract for Wastewater Operations Branch and/or Drinking Water Operations Branch.

"Countersignature Date" means the date this agreement is countersigned by the City Controller.

"Director" mean the Directors/Chiefs of each of the Departments or the City Purchasing Agent for the City, or the person he or she designates.

“Effective Date” is defined as date contract is countersigned by the City Controller.

“Emergency Labor Rate “(ELR) shall mean the contractor’s charge for labor for unscheduled, immediate, and continuous repair work which shall be carried out until the repair of the unit is completed. UDR must authorize all emergency works.

Equipment Inventory (EI) Number” shall mean the unique, cradle-to-grave number called Equipment Inventory (EI) Number used by (MMS) to identify each piece of equipment.

“(EI) Tag” shall mean a metallic strip, embossed with the equipment inventory number (EI #), attached to each piece of equipment

“Governing Body” means the Mayor and City Council of the City of Houston.

“Hazardous Materials” is defined in Article II (Environmental Laws).

“Maintenance Management System” (MMS) shall mean a computerized database to manage work order process, and maintains historical data about performance and repair of equipment at the *Drinking Water Operations* and *Wastewater Operations* branches of the Utilities Division, City of Houston.

“Non-Destructive Testing” (NDT) shall mean inspection to detect cracks and discontinuities by Magnetic Particle Methods, Penetrate Methods or any other Methods as needed and shall be performed by an NDT Level III Certified Technician. The Certification shall be in accordance to the latest Recommended Practices of the American Society for Non-Destructive Testing.

“Non-repairable Shop Cost” shall mean the cost amount that the contractor can bill the City for the teardown, inspection, testing, and work scope/estimate preparation when the UDR determines that the pump is not to be repaired (Non-Repairable).

“Notice to Proceed” means a written communication from the City Purchasing Agent to Contractor instructing Contractor to begin performance.

“Other Repair Methods” shall mean any method of repair other than those prescribed in the Bid Form. These “other repair methods” must be authorized in writing by the equipment manufacturer and be approved by the Director.

“Overhaul and Repair at Contractor’s Facility” (Overhaul-Repair) shall mean that the contractor shall inspect all components of the pump unit at Contractor’s facility, cleans all parts, measure and record dimensions of components/clearances and bring them to OEM standards. The Contractor shall dynamically balance rotating parts individually and as assembled, re-assemble. After total re-assembly of the pump, the Contractor shall paint all of the external surfaces (excluding the pump shaft).

“Overtime Labor Rate” (OLR) shall mean the contractor’s charge for labor for work performed after contractor’s Standard Business Hours. UDR must authorize all overtime works.

“Parties” mean all the entities set out in the Preamble who are bound by this Agreement.

“Preventive Maintenance (PM)” shall mean a program which mission is to extend the life of equipment and detect critical wear of equipment. PM shall accomplish this via the performance of a series of tasks at variable frequencies (monthly, quarterly, or annually) before the equipment fails or breaks down. Frequencies of the PMs will be decided by the CTR. The CTR will make changes to the frequencies of the PMs over the contract period, as needed.

“Replacement Parts” mean all items (hardware or software) that Contractor provides and installs in Equipment in order to restore the Equipment to a fully operational condition.

“Predictive Maintenance (PDM)” shall mean a program which mission is to initiate remedies before equipment failures thus extending the life of equipment and preventing critical equipment wear. PDM shall accomplish this via the performance of field inspections (monthly, quarterly, or annually) using high technology diagnostic tools and programs that monitor oil, bearing, and vibration analysis trends in equipment operation. Monthly testing and reporting shall establish the priorities that determine the severity of a PDM problem with a machine and the urgency in which maintenance actions shall take place.

“Standard Labor Rate “(SLR) shall mean the contractor’s charge for labor during contractor’s Standard Business Hours.

“User Department Representative (UDR)” shall mean the City representatives of the Director of the Department assigned to administer the day-to-day activities of the Contract for Wastewater Operations Branch and/or Drinking Water Operations Branch.

Dry Pit Pump Groups shall mean Pumps at Wastewater, Ground Water and Drinking Water (Surface Water) Operations locations as grouped by Manufacturer, Model and Horsepower.

Group 1: ITT A-C/Allis Chalmers, Cornell, Goulds, Ingersoll-Dresser, and Worthington

Group 2: Aurora, Chicago-Yeoman, Fairbanks-Morse, FMC Corp, and Paco

Group 3: Gorman Rupp, Marlow, Moyno, Nemo, Penn Valley, Syncrflo, Vaughn, and Wemco

Group 4: Floway, and Peabody

Group 5: KSB, and Sewatec

Group 6: Miscellaneous Pumps: Dean, Demin, Finish Thompson, Franklin Miller, Haywood, Hydromatic, Krogh, Peerless, MetPro corp, and Weiman

END OF SECTION

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**EXHIBIT B
SCOPE OF SERVICES**

(To be inserted by the City at the time of Contract execution)

EXHIBIT C
EQUAL EMPLOYMENT OPPORTUNITY

1. The contractor, subcontractor, vendor, supplier, or lessee will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, or age. The contractor, subcontractor, vendor, supplier, or lessee will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, religion, color, sex, national origin, or age. Such action will include, but not be limited to, the following: employment; upgrading; demotion or transfer; recruitment advertising; layoff or termination; rates of pay or other forms of compensation and selection for training, including apprenticeship. The contractor, subcontractor, vendor, supplier or lessee agrees to post in conspicuous places available to employees, and applicants for employment, notices to be provided by the City setting forth the provisions of this Equal Employment Opportunity Clause.

2. The contractor, subcontractor, vendor, supplier, or lessee states that all qualified applicants will receive consideration for employment without regard to race, religion, color, sex, national origin or age.

3. The contractor, subcontractor, vendor, supplier, or lessee will send to each labor union or representatives of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer advising the said labor union or worker's representative of the contractor's and subcontractor's commitments under Section 202 of Executive Order No. 11246, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

4. The contractor, subcontractor, vendor, supplier, or lessee will comply with all provisions of Executive Order No. 11246 and the rules, regulations, and relevant orders of the Secretary of Labor or other Federal Agency responsible for enforcement of the equal employment opportunity and affirmative action provisions applicable and will likewise furnish all information and reports required by the Mayor and/or Contractor Compliance Officer(s) for purposes of investigation to ascertain and effect compliance with this program.

5. The contractor, subcontractor, vendor, supplier, or lessee will furnish all information and reports required by Executive Order No. 11246, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to all books, records, and accounts by the appropriate City and Federal Officials for purposes of investigations to ascertain compliance with such rules, regulations, and orders. Compliance reports filed at such times as directed shall contain information as to the employment practice policies, program, and work force statistics of the contractor, subcontractor, vendor, supplier, or lessee.

6. In the event of the contractor's, subcontractor's, vendor's, supplier's, or lessee's non-compliance with the non-discrimination clause of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part, and the contractor, subcontractor, vendor, supplier, or lessee may be declared ineligible for further City contracts in accordance with procedures provided in Executive Order No. 11246, and such other sanctions may be imposed and remedies invoked as provided in the said Executive Order, or by rule, regulation, or order of the Secretary of Labor, or as may otherwise be provided by law.

7. The contractor shall include the provisions of paragraphs 1-8 of this Equal Employment Opportunity Clause in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontractor or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance; provided, however, that in the event the contractor becomes involved in, or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

8. The contractor shall file and shall cause his or her subcontractors, if any, to file compliance reports with the City in the form and to the extent as may be prescribed by the Mayor. Compliance reports filed at such times as directed shall contain information as to the practices, policies, programs, and employment policies and employment statistics of the contractor and each subcontractor.

**EXHIBIT D
MWBE SUBCONTRACT TERMS**

(To be inserted by the City at the time of Contract execution)

EXHIBIT E
DRUG POLICY COMPLIANCE AGREEMENT

(To be inserted by the City at the time of Contract execution)

**EXHIBIT F
CONTRACTOR'S CERTIFICATION OF NO SAFETY IMPACT POSITIONS
IN PERFORMANCE OF A CITY CONTRACT**

I, _____
(Name - Print/Type) **(Title)**

as an owner or officer of _____ (Contractor) have authority to bind the Contractor with respect to its bid, and I hereby certify that Contractor has no employee safety impact positions as defined in §5.18 of Executive Order No. 1-31 that will be involved in performing this City Contract. Contractor agrees and covenants that it shall immediately notify the City's Director of Personnel if any safety impact positions are established to provide services in performing this City Contract.

Date

Contractor Name

Signature

Title

**CONTRACTOR'S CERTIFICATION OF NON-APPLICATION OF
CITY OF HOUSTON DRUG DETECTION AND DETERRENCE PROCEDURES
FOR CONTRACTORS**

I, _____
(Name - Print/Type)

as an owner or officer of _____ (Contractor) have authority to bind the Contractor with respect to its bid, and I hereby certify that Contractor has fewer than fifteen (15) employees during any 20-week period during a calendar year and also certify that Contractor has no employee safety impact positions as defined in §5.18 of Executive Order No. 1-31 that will be involved in performing this City Contract. Safety impact position means a Contractor's employment position involving job duties that if performed with inattentiveness, errors in judgment, or diminished coordination, dexterity, or composure may result in mistakes that could present a real and/or imminent threat to the personal health or safety of the employee, co-workers, and/or the public.

Date

Contractor Name

Signature

Title

**EXHIBIT G
DRUG POLICY COMPLIANCE DECLARATION**

(To be inserted by the City at the time of Contract execution)

**EXHIBIT H
FEES AND COSTS**

(To be inserted by the City at the time of Contract execution)

**EXHIBIT I
PAY OR PLAY**

(To be inserted by the City at the time of Contract execution)