

COUNTY OF FRESNO
ADDENDUM NUMBER: ONE (1)
RFQ NUMBER: 968-5419
OPERATION & MAINTENANCE OF LANDFILL GAS
COLLECTION SYSTEM - AADS

Issue Date: January 14, 2016

IMPORTANT: SUBMIT QUOTATION IN SEALED PACKAGE WITH QUOTATION NUMBER, CLOSING DATE AND BUYER'S NAME MARKED CLEARLY ON THE OUTSIDE TO:

COUNTY OF FRESNO, PURCHASING
4525 EAST HAMILTON AVENUE, 2nd Floor
FRESNO, CA 93702-4599

CLOSING DATE OF QUOTATION WILL BE AT 2:00 P.M., ON FEBRUARY 4, 2016.

QUOTATION WILL BE CONSIDERED LATE WHEN THE OFFICIAL PURCHASING TIME CLOCK READS 2:00 P.M.

All quotation information will be available for review after contract award.

Clarification of specifications is to be directed to: **Jennifer Anderson**,
phone (559) 600-7115 or e-mail janderson@co.fresno.ca.us.

NOTE THE FOLLOWING AND ATTACHED ADDITIONS, DELETIONS AND/OR CHANGES TO THE REQUIREMENTS OF REQUEST FOR QUOTATION NUMBER: 968-5419 AND INCLUDE THEM IN YOUR RESPONSE. PLEASE SIGN IN BLUE INK AND RETURN THIS ADDENDUM WITH YOUR QUOTATION.

Q1. Is the bid 968-5419 OPERATION & MAINTENANCE OF LANDFILL GAS COLLECTION SYSTEM – AADS for the construction of the additional wells also or will that bid separately?

A1. A: *The installation of the additional landfill gas extraction wells referenced in RFQ 968-5419 will be facilitated through a separate construction bid from the County of Fresno Department of Public Works and Planning and will be forthcoming. The additional 22 wells installed in Phase II referenced in RFQ 968-5419 are actually replacement wells for existing extraction wells. The design proposes an additional 10 vertical wells in Fill Area II, 12 vertical wells in Fill Area III with construction scheduled to be completed by late 2016 / summer 2017.*

➤ **Replace “Scope of Work” page 16 with the “Revised Scope of Work” page 16 attached below.**

ACKNOWLEDGMENT OF ADDENDUM NUMBER One (1) TO RFQ 968-5419

COMPANY NAME: _____ (PRINT)

SIGNATURE (In Blue Ink): _____

NAME & TITLE: _____ (PRINT)

Purchasing Use: JA:ssj

ORG/Requisition: 9026 / 92616100070

REVISED SCOPE OF WORK

The Public Works and Planning Department of the County of Fresno (County) is requesting quotations for the following work to be performed at the American Avenue Disposal Site:

The Site is in rural central Fresno County, approximately 17 miles west of the City of Fresno on American Avenue, between Highway 145 and Placer Avenue (**Attachment A**). The Site address is 18950 West American Avenue in Kerman, California 93630. The Site is an existing disposal facility owned and operated by the County of Fresno Public Works and Planning Department. The Site totals 440 acres with 367 acres permitted for waste disposal.

The existing LFGCCS includes 11 vertical wells installed in the inactive Fill Area I, 67 vertical wells (dual completion wells counted as two) installed and 8 Leachate Collection and Recovery System riser connections in the inactive, Fill Area II (**Attachment B**), and 7 vertical wells installed in Fill Area III. The County anticipates approximately 22 additional landfill gas (LFG) wells to be installed in Fill Area II, and Fill Area III. The number of additional wells to be installed is currently in the design phase and is subject to change. The design proposes an additional 10 vertical wells in Fill Area II, 12 vertical wells in Fill Area III with construction scheduled to be completed by summer 2016. The existing and proposed vertical wells are 6 inches in diameter with 4 inch diameter extensions as necessary to facilitate operations and are constructed of high-density polyethylene (HDPE) pipe. Well boreholes are typically 30 inches in diameter and range in (original, pre-extension) installation depths of 36 to 89 feet.

The LFG header and laterals are constructed of fusion-welded HDPE pipe, varying in size from 4 to 24 inches in diameter. Most of the collection system header and lateral piping in Fill Area II is installed above-grade except for: a lateral that is sub-grade of a haul road in two locations for connection of EW-21 and EW-22 to the LFGCCS and; a short length of 24-inch diameter header to the east of the Self Hauler Disposal and Recycling Facility, where the header passes under the paved road before entering the flare station. Most of the 18" LFGCCS conveyance header from Fill Area III to the junction of the 12" Fill Area II header is installed sub-grade. The 18" header located on the Fill Area III waste mass is installed above-grade.

The LFG collected by the LFGCCS is conveyed to the flare stations via the 12-inch HDPE header. The flare stations are located to the west of the scalehouse, between Fill Areas I and II. The flaring system is comprised of two blower skids (gas moving equipment), vertical ground flares, condensate injection systems, and the air compressors.

The enclosed ground Flare No. 1 is manufactured by the John Zink Company and is 8 feet in diameter and 40 feet high. The flare is rated for a maximum heat output of 51 MMBT/hr. Enclosed ground flare No. 2 is manufactured by LFG Specialties, L.L.C. and is 11 feet in diameter and 60 feet high. Flare 2 is rated for a maximum heat output of 99 MMBTU/hr. The Site is operated under the conditions of Title V Permit No. C-3115-2-13, et.al. (**Attachment C**).

The LFG moving equipment for Flare No. 1 consists of two multi-stage centrifugal blowers with a rated capacity of 1,700 scfm each. The blowers are connected in parallel configuration and one blower operates at a time while the other is used as a standby. Flare No. 2 LFG moving equipment consists of three multi-stage centrifugal blowers with a rated capacity of 1,650 scfm each, connected in series of which two can operate simultaneously with the third used as a standby.

Condensate collected in the LFG headers is drained into eight automatic pneumatic condensate sumps. Four sumps are adjacent to the Fill Area II, one located on the western side, one located on the south eastern side and two located immediately north of the flare. Three sumps are located along the conveyance header adjacent to the Soil Stockpile Area, one on the southeast side, two on the north side. One sump is located at the current terminus of the header east of Phase III Module 2. See **Attachment B** as reference for approximate locations of the automatic pneumatic condensate sumps. Two air compressors (one operating and the other as a standby); located in the flare station, furnish compressed air to the pump in each sump. The condensate collected in these five sumps is pumped into a 3,150-gallon double-walled condensate storage tank. Condensate is disposed of by injecting it into Flare No. 1 or Flare No. 2 using high-pressure electric centrifugal pumps installed in parallel, with one operating and the other as a standby.

The County is seeking a contractor to provide the labor, equipment, instrumentation, and materials to operate and maintain the LFGCCS. The chosen contractor must hold and maintain a valid California contractor's license and demonstrate experience by listing references for operation of three similar systems within the last