



City of Las Cruces®

PEOPLE HELPING PEOPLE

Council Action and Executive Summary

Item # 4Ordinance/Resolution#15-16-060For Meeting of _____
(Ordinance First Reading Date)For Meeting of February 2, 2016
(Adoption Date)

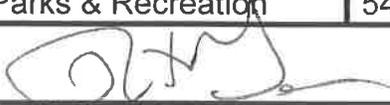
Please check box that applies to this item:

 QUASI JUDICIAL LEGISLATIVE ADMINISTRATIVE

TITLE: A RESOLUTION APPROVING AN INDEFINITE QUANTITY, INDEFINITE COST CONTRACT FOR VECTOR AND PEST CONTROL SERVICES PRICE AGREEMENT AWARDED TO ENTOMOLOGY CONSULTANTS, LLC OF LAS CRUCES, NM FOR A THREE (3) YEAR TERM CONDITIONED UPON ANNUAL RENEWALS AND PENDING APPROVED BUDGETS.

PURPOSE(S) OF ACTION:

To award contract.

COUNCIL DISTRICT: All		
<u>Drafter/Staff Contact:</u> Mark Johnston	<u>Department/Section:</u> Parks & Recreation	<u>Phone:</u> 541-2550
<u>City Manager Signature:</u>		

BACKGROUND / KEY ISSUES / CONTRIBUTING FACTORS:

The current vector control services contract will expire in February of 2016. As such staff members from the Parks and Recreation Department and the Purchasing Section developed a Request for Proposal (RFP) for the provision of vector and pest control services. RFP No. 15-16-060, was advertised on October 2, 2015 and closed on October 20, 2015. The purpose of the agreement is to provide City-wide control of mosquitoes and other pests such as Africanized bees and fire ants. The new vector control services contract will be for a period up to three (3) years conditioned upon annual renewals and approved budget appropriations.

The City solicited and received one proposal in response to the RFP. Entomology Consultants, LLC of Las Cruces, NM, a locally owned sole proprietorship, submitted all of the required information. The submittal was reviewed by staff and scored according to predetermined criteria. Entomology Consultants, LLC received excellent marks from all the reviewers.

As per the Las Cruces Municipal Code, it is necessary for City Council to approve the purchase of services above the threshold of \$75,000.00. Staff recommends that the City Council award the indefinite quantity, indefinite cost contract to Entomology Consultants, LLC of Las Cruces, NM.

(Continue on additional sheets as required)

SUPPORT INFORMATION:

1. Resolution.
2. Exhibit "A", Vendor's proposal response.
3. Exhibit "B", Purchasing Manager's Request to Contract.

SOURCE OF FUNDING:

Is this action already budgeted?	Yes	<input checked="" type="checkbox"/>	See fund summary below
	No	<input type="checkbox"/>	If No, then check one below:
	<i>Budget Adjustment Attached</i>	<input type="checkbox"/>	Expense reallocated from:
		<input type="checkbox"/>	Proposed funding is from a new revenue source (i.e. grant; see details below)
		<input type="checkbox"/>	Proposed funding is from fund balance in the _____ Fund.
Does this action create any revenue?	Yes	<input type="checkbox"/>	Funds will be deposited into this fund: _____ in the amount of \$ _____ for FY _____.
	No	<input checked="" type="checkbox"/>	There is no new revenue generated by this action.

BUDGET NARRATIVE

N/A

FUND EXPENDITURE SUMMARY:

Fund Name(s)	Account Number(s)	Expenditure Proposed	Available Budgeted Funds in Current FY	Remaining Funds	Purpose for Remaining Funds
General	10383010-722190	\$100,000.00	\$171,743.77	\$71,743.77	Other contracted services

OPTIONS / ALTERNATIVES:

1. Vote "Yes"; this will approve an indefinite quantity, indefinite cost contract for vector and pest control services with Entomology Consultants, LLC of Las Cruces, NM.
2. Vote "No"; this will not approve the contract for vector and pest control services. The RFP process will need to be repeated during which period the City will not have vector and pest control services.
3. Vote to "Amend"; and provide staff with direction.

(Continue on additional sheets as required)

4. Vote to "Table"; and provide staff with further direction if City Council would like to proceed. This action will cause the City to not have vector and pest control services.

REFERENCE INFORMATION:

N/A

RESOLUTION NO. 15-16-060

A RESOLUTION APPROVING AN INDEFINITE QUANTITY, INDEFINITE COST CONTRACT FOR VECTOR AND PEST CONTROL SERVICES PRICE AGREEMENT AWARDED TO ENTOMOLOGY CONSULTANTS, LLC OF LAS CRUCES, NM FOR A THREE (3) YEAR TERM CONDITIONED UPON ANNUAL RENEWALS AND PENDING APPROVED BUDGETS.

The City Council is informed that:

WHEREAS, mosquitoes are recognized as a serious public health hazard and as vectors in the transmission of disease such as the West Nile Virus; and

WHEREAS, a qualifying Request for Proposal (RFP) for vector and pest control services was received from Entomology Consultants, LLC; and

WHEREAS, a balanced, environmentally responsible mosquito control program will address citizen concerns and promote public health; and

WHEREAS, funding for services is provided in the FY 2015/2016 Parks and Recreation Department budget.

NOW, THEREFORE, be it resolved by the governing body of the City of Las Cruces:

(I)

THAT the indefinite quantity, indefinite cost contract, attached hereto as Exhibit "A", for vector and pest control services is awarded to Entomology Consultants, LLC of Las Cruces, NM for a period up to three (3) years conditioned upon annual renewals and approved budget appropriations.

(II)

THAT the Purchasing Manager is authorized to contract with Entomology Consultants, LLC as outlined in the signed Exhibit "B", Purchasing Manager's Request to Contract form, attached hereto.

(III)

THAT City staff is hereby authorized to do all deeds necessary in the accomplishment of the herein above.

DONE AND APPROVED this ____ day of _____, 20__.

APPROVED:

Mayor

ATTEST:

City Clerk

(SEAL)

VOTE:

Mayor Miyagishima:	_____
Councillor Gandara:	_____
Councillor Smith:	_____
Councillor Pedroza:	_____
Councillor Eakman:	_____
Councillor Sorg:	_____
Councillor Levatino:	_____

Moved by: _____

Seconded by: _____

APPROVED AS TO FORM:



City Attorney



RFP COMPLIANCE DECLARATION

RFP TITLE: Vector & Pest Control Services
RFP NO.: 15-16-060
DUE DATE/TIME: October 20, 2015 / 4:00 p.m.

In compliance with the requirements of this RFP, I, the undersigned, offer and agree to furnish any or all materials and/or services to the City of Las Cruces within the time agreed.

I further certify that this company has not been debarred, suspended, or otherwise made ineligible for participation in Federal Assistance programs under Executive Order 12549 Debarment and Suspension as described in the Federal Rules and Regulations.

Receipt of Addenda Nos.: 0 is hereby acknowledged (where none received, place a zero in this space)

Company Name and Address:

Entomology Consultants LLC
P.O. Box 1149
Mesilla Park, NM 88047

Authorized Signature
Matthew Lee
 Typed or Printed Name
Medical Entomologist
 Title
entconsultants@hotmail.com
 Email address

Telephone number (575) 639-3897 Fax number _____

NM Tax & Revenue Dept. CRS # 03-116819-00-1

Current NM Public Regulatory Commission Registration # _____ (corporations only)

Current CLC Business Registration # _____ (respondents located in Las Cruces only)

Federal I.D. number 47-2715956 (mandatory for all respondents)

NM Resident Certificate from NM Tax and Revenue Department enclosed Yes No

**THIS FORM MUST BE COMPLETED AND INCLUDED WITH PROPOSAL
FAILURE TO INCLUDE WILL SUBJECT RESPONSE TO REJECTION**

CRITERIA 1. TECHNICAL APPROACH

Integrated Mosquito Management Services

The primary focus of vector control is the prevention and control of arbovirus diseases through an integrated approach. A fully Integrated Mosquito Management program will be developed and implemented by Entomology Consultants LLC with the primary objective of inhibiting mosquito larvae development to minimize the need for ULV fogging with insecticides to control adult mosquitoes; providing control in a safe, efficient, and economic manner while preventing damage to humans, wildlife, and the environment. This management program will comprise a balanced use of biological/biochemical, cultural, mechanical, and chemical procedures which are environmentally compatible providing a cost-effective level of disease-vectoring mosquito suppression.

Increased management and disease suppression

Entomology Consultants LLC specializes in thorough management of larval breeding sites found on publicly owned property to prevent adult hatches and subsequent proliferation of biting, and potentially disease spreading adult mosquitoes into inhabited areas. The cultivation of the use of Codes Enforcement agencies within our current client's municipalities has significantly increased private property reduction of larval breeding sites.

Entomology Consultants LLC has developed an adult mosquito monitoring system through the extensive use of CDC light traps, Gravid traps, resting boxes, and backpack aspirator surveys to provide area specific treatment of adult populations before complaint calls arise. Over 90% of the areas treated by Entomology Consultants LLC are dictated by our in-house adult surveillance activities, the remaining 10% originate from our mosquito hotline calls. All fogging missions will be mapped with satellite tracking technology to provide detailed log of night operations (CLC properties treated and time of treatment) allowing CLC officials to know exactly when and what areas have been fogged.

Extensive utilization of adult surveillance allows for proper taxonomic identification of mosquito species allowing the differentiation between nuisance and disease-vectoring species and which type of water they breed in.

The utilization of the RAMP (Rapid Analyte Measurement Platform) equipment used in our private laboratory will allow for next day confirmation of mosquito pools which are positive with West Nile Virus. This rapid turnaround allows for immediate adulticiding of positive mosquito populations and fast press releases to the taxpayers. Entomology Consultants LLC is the only company within the State of New Mexico with this equipment and technology.

Increased public relations

Entomology Consultants LLC has monopolized the usage of newspaper and television in providing information to the public in mosquito related matters. The benefits of having a university- degreed and experienced Medical Entomologist as a spokesperson for our current clients has brought greater attention to the seriousness of vector borne disease and continued public outreach to the taxpayers. With today's emerging technology and increased taxpayer demands, a program run by scientists highly benefits our clients.

The implementation of an Integrated Mosquito Management Program will be accomplished in three key stages:

1. Surveillance
2. Larval mosquito control
3. Adult mosquito control

I. Surveillance

The foundation for any successful mosquito management program is the surveillance and mapping of areas which are conducive to species of mosquitoes which have a high vector competency and that have most likely played roles in West Nile, Western Equine Encephalitis, and Saint Louis Encephalitis virus circulation (specifically *Culex* and *Aedes* spp. of mosquitoes including *Cx quinquefasciatus*, *Cx restuans*, *Cx tarsalis*, *Aedes albopictus*, *Aedes vexans* and *Aedes aegyptie*). Surveillance provides the earliest evidence of virus transmission as well as information regarding potential mosquito vector species including species which could be bridge vectors (day biting species, *Aedes* spp.) Control measures to mitigate high numbers of disease vectoring mosquitoes can be tailored to the specific species of mosquitoes determined through surveillance techniques, allowing for increased control and cost effectiveness.

A. Larval and Pupal Surveillance

1. All areas in the City of Las Cruces which provide potential aquatic larval habitat for mosquitoes including catch basins, floodwater sites, drainage ditches, sewage treatment plant, storm sewers, retention and detention sites, irrigation ditches, artificial containers, and ponds will be surveyed and mapped utilizing GPS instrumentation and imputed into data management system. Potential breeding sites located on private commercial properties which provide public access (i.e floodwater detention ponds in parking areas) will be included. Areas of private properties (non-accessible to the public) which are creating breeding habitat for mosquitoes (tire collections, abandoned swimming pools, continual standing water with emergent vegetation) will be brought to the attention of the City of Las Cruces to discuss means of mitigation along with cooperating codes enforcement from city and county where property is located.

2. Breeding sites will be mapped according to GIS coordinates and recording of the following information shall be required:

Date Sampled, GIS coordinates, Site Description, Size, Larval Presence/Absence, Species, Developmental Stage, Vegetation Densities, and Treatments Applied.

B. Adult Mosquito Surveillance

The monitoring of adult mosquito populations by means of CO₂ baited CDC mini-light traps, Gravid Traps, EVS Traps, Ovi-traps, resting boxes, back pack aspirators, sweep net samples of vegetation, and landing rate counts will be used to determine population densities, identification of nuisance and vector species, and treatment thresholds. Complete taxonomic lab services shall be provided by Entomology Consultants LLC in our private laboratory.

1. Areas within the city limits shall be monitored on a weekly basis via a network of light traps and gravid traps to effectively monitor adult population densities. The network of traps will allow for continuation of a database allowing for the spatial and temporal evaluation of changes in mosquito population size and monitor the presence of disease vectoring species.
2. Light trap placement will be installed in those areas deemed productive from surveillance of breeding habitats, proximity to sensitive areas, and secure from theft. Placement and quantity of traps will be sole discretion of Entomology Consultants LLC.
3. Trapping frequency will be one night per week during the season. Additional nights shall be added based upon discretion of Entomology Consultants LLC to provide additional data when deemed necessary. Traps will be deployed between the hours of 4:00 and 9:00 p.m. and collected the next day between 6:00 and 10:00 a.m. Data collected from each night of trapping shall include taxonomic identification and quantity of disease vectoring female mosquitoes. Trap nights will be chosen by Entomology Consultants LLC to correspond with control measures. Trapping will begin in April and continue through November.
4. Nuisance complaints received by the City of Las Cruces Mosquito Hotline will be investigated and assessment of the need of trap placement on candidate properties will be made. All calls/ emails shall be addressed within 48 hours of receipt.
5. Other adult mosquito population surveillance methods will include backpack aspirators and/ or sweep net sampling of vegetation surrounding breeding sites, landing rate counts, and resting box counts to supplement light trap counts when deemed necessary by Entomology Consultants LLC.

C. Encephalitis Virus Surveys

1. Entomology Consultants LLC will provide the City of Las Cruces with Encephalitis Virus surveys conducted in cooperation with the New Mexico Department of Health and the Center for Disease Control (CDC) for the testing of female disease vectoring species for West Nile Virus, Western Equine, and Saint Louis Encephalitis. This will allow for the City of Las Cruces to inform the staff and students of the presence of arboviruses in a timely fashion. A full Research/ Taxonomic Lab in-house equipped with a RAMP (Raid Analyte Measurement Platform) allows Entomology Consultants LLC next day results on West Nile Virus analysis. The supernatant will be sent to the New Mexico Dept of Health for second confirmation on any positive pools. Only disease vectoring species will be tested. **Unless State funding is available for RAMP card purchase, the cards shall be billed separately from Integrated Mosquito Management Program costs to City of Las Cruces upon their request for usage.**
2. Frequency of testing shall occur once every two weeks, beginning in March through November. All potential vector species from the current trap week will be identified, properly preserved, packaged, and sent to the lab for analysis for Saint Louis Encephalitis and Western Equine Encephalitis (State funding required) after samples have been run on the RAMP for West Nile Virus.

II. Larval Mosquito Control

The brain of an integrated mosquito management program is the surveillance element, while the heart of the program is the reduction of larval populations before emerging to adults to minimize the need for ULV fogging.

The integrated approach of controlling mosquitoes in a safe, efficient, and economical manner begins with larval and pupal control measures. The GIS mapping of all permanent, semi-permanent, and problem floodwater areas will result in efficacious and economic mosquito larval control. Each potential breeding site will be evaluated upon its size, relative distance to sensitive areas of human/ equine inhabitation, duration and viability of breeding, species specific habitat (floodplain areas for *Aedes / Ochleratus* and *Anopheles* spp. or containers for *Culex* spp.), and amount of organic matter. These and other considerations must be established before determining which product is to be utilized and how often it must be applied. The ability to control costs, effective use of man power, and providing efficacy are all factors which make up a larval control program.

1. Mapped breeding sites will be checked on a basis determined by their productivity and which type of larvicide is applied.
2. Determination of mosquito species, stage of development (crucial for efficacy), and longevity of pool (how many days of control are necessary in regards to length of pool time pool will contain water) will determine which type of larvicide will be used and its frequency of application. The economics and subsequent efficacy of a particular larvicide are determined by cost/ acre/ day of control/ labor hour.
3. The application schedule for larvaciding is based upon integrated mosquito management programs need of control, duration of control necessary and environmental factors such as photo degradation from UV light. Some applications will be targeted towards multiple broods at 30 -150 day residual. Application schedules are dictated by the environmental conditions, not a cook book. Larvacides to be used (but not limited to): Altosid (all formulations), Vectomax, Vectolex, Aquabac, Agnigue, CocoBear, Natular, and gambusia fish.
4. Application records will be kept for each individual site. Site ID, product applied, EPA registration number, percent concentration, and amount applied, size of treatment area, and life stage of target pest will be recorded. Labels and MSDS sheets of all products used will be on file at City of Las Cruces department overseeing the contract. Records shall be provided to CLC based upon written request.

III. Adult Mosquito Control

Ground ULV application of selected products made in accordance to Integrated Mosquito Management guidelines, with the goal of protecting human/ mammal populations and the environment while economically reducing, nuisance and disease vectoring adult mosquitoes to tolerable levels.

A. Ground Based ULV Applications

1. The application of adulticides for mosquito control will be concentrated in areas which provide breeding/ harborage sites for adult mosquito populations. Treating "hot spots" will reduce adult dispersal into public and residential areas. General adulticiding (large area) is performed only in the instances of high mosquito annoyance and in the case of outbreak of vector-borne disease.
2. Thresholds for ULV treatments will be based on trap captures from light trap, gravid trap, and/ or landing rate counts made within the CLC properties. Nightly average trap captures of 60 nuisance species, or 8 vector species will warrant ULV applications within the specified flight range of the species and its proximity to sensitive areas. Landing rates of 10 nuisance mosquitoes per minute or 4 disease vectoring species per minute will trigger thresholds for ULV treatment. Hot spots comprised of harborage areas and breeding sites will be fogged to reduce adult pressure down to a tolerable level. Other means of adult sampling methods may be

included to determine areas needing treatment. TREATMENT THRESHOLDS SHALL BE DISCUSSED WITH CLC TO DETERMINE APPLICATIONS.

3. Treatment areas within the city will be designated by streets, subdivisions, or other general areas. This will allow for effective treatments due to wind direction.
4. Frequency of applications shall occur specifically on Wednesday and Sundays, designated as ULV adulticiding nights. All applications will be based upon need and surveillance information, rather than a prophylactic application. During times of high annoyance from adult populations and continued adverse weather, an additional night of the week shall be added, again based upon need as determined by Entomology Consultants LLC.
5. Due to the crepuscular nature of disease- vector mosquitoes (especially *Culex* spp.), ULV treatments shall be applied during the greatest hours of activity which occurs between the hours of 8:00 p.m. (dusk) and 12:00 midnight with little work being done in the early morning hours. Rotator cup CDC light traps will determine peak flight times for various species.
6. Entomology Consultants reserves the right to cancel any ULV applications without notice to City of Las Cruces due to adverse weather conditions such as: strong winds over 10 mph, heavy rain, and thermal inversion layer. Scheduled ULV treatment will be postponed until the hours of 4:00 to 5:30 a.m. weather permitting. If weather conditions do not become favorable, the scheduled fogging will be pushed to the next scheduled night of the same week.

B. Special Event ULV and Barrier Applications

1. ULV applications will be performed for outdoor special events such as festivals, major evening sporting events, and speaking events at no extra charge to City of Las Cruces. Four days prior written (email) notice is required with no exceptions.
2. ULV applications will be made the evening prior to the event, in the general area surrounding the event.
3. Barrier treatments, utilizing a motorized back pack mister/ ATV mounted mister, to surrounding vegetation and other mosquito harborage areas utilizing a residual product will be made if the event is held in a small outdoor setting, providing 3-12 days residual control depending on environmental factors.

C. Emergency ULV Applications

1. In the advent of a mosquito vectored disease outbreak confirmed by State Health Officials or the CDC, an emergency plan and budget must be enacted to allow for general adulticiding, to take place as soon as possible in the complete area surrounding the origination of the incidence.

Entomology Consultants LLC will work with City of Las Cruces and the New Mexico Department of Health on determining the extent of control/ suppression measures necessary.

Emergency adulticiding will result in a separate charge, aside from the normal contract charge for vector control services, based upon linear mile fogged.

D. Mosquito Hotline

1. The continuation of the City of Las Cruces Mosquito Hotline shall remain in effect with all calls being forwarded via e-mail to Entomology Consultants LLC on a daily basis. All requests for service due to nuisance activity or standing water complaints will be addressed through property investigations and phone consultations by Entomology Consultants LLC personnel. All field investigations where direct contact is made with complainant, signed documentation consisting of an incidence report will be made and signed by the complainants and Entomology Consultants LLC investigator. Documentation of field investigations will be provided to CLC officials via email within 48 hours of initial contact with complainant. Any belligerent complainants shall be handled exclusively by CLC staff.
2. All complaint calls will be addressed within 48 hours of receipt by Entomology Consultants LLC in the order of severity.
3. Addition of an area due to complaint calls will be made to the ULV list if the criteria is met based upon surveillance. No adulticide application will be made due client demands without justifiable thresholds being met (danger of violating NPDES requirements from EPA resulting in financial penalty).

E. ULV Fogging Methods and Materials

Entomology Consultants LLC utilizes the most state of the art application equipment available within the market place. Current equipment includes two DynaFog L-30's and one BeecoMist Pro 25 Foggers which are electric rotary atomizers producing consistent droplet size uniformity and stealth operation. Ground based adulticide operations conducted via truck and ATV mounted equipment can effectively apply up to 1,044 acres per hour or 6,454 acres per night with current personnel and equipment (based upon 10 mph @ 300 foot swath width x three trucks). Applications of EPA and State approved adulticide products will be made, which have very little to no odor when applied, and LD 50's of over 5,000 mg/kg to minimize risk. These materials have excellent environmental assessments and are not corrosive to automobile paint. Setback restrictions from fish bearing water ways will be respected in terms of material label restrictions.

1. Discretion of adulticide materials applied and percent concentrations will be made solely by Entomology Consultants LLC based upon efficacy, resistance management, and label restrictions on areas of application. The primary adulticides used by Entomology Consultants LLC will be Permethrin based due to the non-restricted use labeling and broad label usage. Other active ingredients such as Chlorpyrifos, Etofenprox (Zenivex) and Sumithrin (Anvil) may be substituted due to resistance management strategies. Products commonly used by Entomology Consultants LLC but not limited to:

(IRAC Class 3A)- Anvil 10, Zenivex E4, MasterLine 30-30, BioMist 30-30, bifenthrin (barrier treatments) and MosquitoMist (IRAC class 1B)

2. Efficacy Trials will be performed throughout the season utilizing caged, field collected, mosquito populations to determine the efficacy of materials and rates currently used in management program. This is a key component of Entomology Consultants LLC Resistance Management Program. CDC bottle bioassays will be utilized throughout the season for resistance management evaluations as well.
3. ULV application equipment will be calibrated and certified to NMDA/ EPA regulations to ensure optimum droplet size of 8-22 microns MMD. Calibration to determine correct flow rate shall be made weekly

throughout the season to ensure proper application rates. Mass Medium Droplet size will be determined three times during the season utilizing rotator droplet collector with Teflon coated slides and read under microscope in Entomology Consultants LLC laboratory.

4. Before any ULV applications are made; the environmental conditions are checked to ensure proper conditions exist for ULV fogging. All climate data is logged in order to comply with Federal and State law in application records.
 - i. Ambient temperature's taken at 5 feet and 15 feet (thermal inversion)
 - ii. Wind speed and direction is determined using a Kestral 1000 wind meter.
5. Adulticide missions will be plotted with a satellite tracking receiver to show area treated during the course of each night's application (total miles fogged). Information will be downloaded and mapped for future reference.
6. Daily logs of climate conditions, materials and amounts applied, and areas applied will be kept as per NMDA record keeping requirements. Labels and MSDS Sheets will be on file at City of Las Cruces offices.

NPDES PERMIT REQUIREMENT

The United States EPA has decided that the City of Las Cruces is the "decision maker" and is responsible for the timely filing of the yearly permit (February of each calendar year). Entomology Consultants LLC shall provide the necessary adulticide treatment acreage for the past mosquito season in order to complete the permit process by November 28th of each contracted year. All monetary fines leveled by the EPA for filing non-compliance become the sole responsibility of the City of Las Cruces.

Public Relations and City of Las Cruces Participation

Entomology Consultants will be available to make Power point presentations to the residents of the City of Las Cruces concerning implementation of an Integrated Mosquito Management program, upon request of the City. Seven (7) days advance written notice is required.

Other Medical Pests

- A. Africanized bee removal: All bee complaints found within city property will be addressed to minimize health risks to the city through eradicating individual colonies through the usage of labeled insecticides. All bee removals will occur at night for public safety at the discretion of Entomology Consultants LLC. No emergency response coordination will be made in conjunction with the City of Las Cruces Fire Department for bee emergencies. They are the first responders. All bee removals shall occur within 48 hours of notice from City of Las Cruces.
- B. Native and Imported Fire Ant Control: Provide complete taxonomy and surveillance of ant species inhabiting City of Las Cruces parks and other public areas of City owned property. Evaluation and treatment conducted as a monthly service to the City. Determination of best management practices will occur based on species and spatial distribution of colonies. Applications of EPA labeled ant baits such as Advion Fire Ant Bait, Advance Granular Ant Bait, and Top Choice (Imported Fire Ants only) shall be

made utilizing IPM principals. All ant calls will be addressed within 48 hours of request. Top Choice applications will be billed as a separate per acre charge outside of main contract cost.

- C. All other medically important insect pests: Management/ Control of other pests plaguing the City of Las Cruces owned properties including but not limited to; American and Turkestan cockroaches, house flies, gnats, and ticks/fleas will be diagnosed and addressed utilizing IPM methods resulting in a separate charge outside of the main Mosquito Management Contract. Utilization of baits will be the primary method for control for any cockroach issue in public areas. Flies and gnats will be situational dependent. Applications of insecticides for tick/flea control at the City owned park areas will be addressed specifically at the city's request for management. No surveillance activities for these pests will occur on an annual basis.

Disclaimers and Limitations

Entomology Consultants, LLC will not treat private grounds and residences (i.e. backyards, large commercial areas with no public access) due to nuisance calls. Only the public areas and roads will be avenues of treatment within the area comprising the City of Las Cruces. Canal and drain areas belonging to irrigation districts will be treated with consent from the irrigation district to City of Las Cruces and Entomology Consultants LLC. Setback restrictions of navigable and fish bearing waterways will be respected in terms of material label restrictions and all areas of organic certified crops will be determined by Entomology Consultants, by notification of the New Mexico Organic Commission, to prevent any problems associated with ULV applications around such described areas.

The guarantee of 100% protection from vector born disease is not implied nor expressed in any manner by Entomology Consultants to City of Las Cruces or its staff and students. Entomology Consultants LLC is engaged in the business of mosquito management and abatement, and has not been retained to eradicate the mosquito population in any particular area. There are severe and sometimes fatal consequences of mosquito bites which may be transmission of serious diseases such as West Nile Virus, Dengue Fever, Western Equine Encephalitis, Saint Louis Encephalitis, Malaria, other Encephalites, Chikungunya, and dog heartworm. Because Entomology Consultants LLC has not been retained to eradicate the mosquito population, Entomology Consultants LLC can make no warranty, representation or guarantee, of any type, about the existence of mosquito borne diseases in the geographic area of the proposed area of contracting, or the potential for human or animal infection, either before, during or after completion of the Entomology Consultants LLC mosquito management services.

Entomology Consultants LLC will not be liable for any general, special, incidental, or consequential damages for loss, damage or expense including but not limited to sickness, injury or death, loss of livestock or animals, or loss of profits from any farming or ranching operations, retail trade operations of any type from the mosquito management services provided by Entomology Consultants, LLC.

Trade Secret/ Intellectual Property Protection

Entomology Consultants LLC has developed any proprietary mosquito management system by which all information developed for the implementation and completion of our Integrated Mosquito Management Services is the foundation which certainly separates us from our potential competitors.

This system and the accompanying compilation of information are critical to the success of our business and more importantly falls under the protection of the "Trade Secret" Statutes. By definition, a trade secret consists of any formula, pattern, physical device, idea, process or compilation of information that both: provides the owner of the information with a competitive advantage in the marketplace and is treated in a way that can reasonably be expected to prevent the public or competitors from learning about it, absent improper acquisition or theft. Trade secrets often protect valuable technical information that cannot be sheltered under other forms of intellectual property law. All data involving program implementation and management is considered Intellectual Property and Trade Secrets of Entomology Consultants LLC. No dispersal (written or otherwise) of application, management, or surveillance information created during the course of the contract period shall be distributed to any individuals or companies wanting to contract with CLC for the purpose of providing CLC with similar service.

CRITERIA 2. KEY PERSONEL

Entomology Consultants LLC is a full service company specializing in Integrated Pest Management services in the field of Medical Entomology (integrated mosquito management) for cities, municipalities, and private properties; Contract Research and Development of numbered compounds pertaining to medical, structural, and turf/ornamental pests for basic manufacturers in EPA Region 6.

License

New Mexico Department of Agriculture- NMCA 52888 categories 1A, 1B, 3A, 3B, 7B, 7D, 8 (public health), 9, and 10

Associations/ Memberships

- American Mosquito Control Association (AMCA)
- Society of Vector Ecology (SOVE)
- Entomological Society of America (ESA)
- West Central Mosquito and Vector Control Association (WCMVCA)
- Northwest Mosquito and Vector Control Association (NMVCA)

Matthew D. Lee

Medical Entomologist

Credentials:

Bachelors of Science, Entomology. New Mexico State University. Awarded 1994.

Masters of Agriculture, Economic Entomology. New Mexico State University. Awarded 1996.

Areas of Competence:

Direct: Over 21 years' experience as professional credentialed entomologist. Applied/research experience in public health- vector control, with strong background in the epidemiology of arbovirus (arthropod born virus) transmission, pesticide efficacy trials, insect taxonomy, insect sampling/surveillance methodology, resistance management, pesticide application technology, equipment calibration, large scale program implementation, cultural/ mechanical/ chemical control measures, toxicology and environmental fate, public relations, GPS/GIS systems, and statistical analysis.

Indirect: Currently working in the fields of forensic entomology, urban entomology, and agronomic entomology in the capacities of expert witness, research and development, and consulting.

Responsibilities: Responsible for program implementation, adulticide applications, larvacide application, spatial analysis of mosquito species and their distribution, taxonomy of disease and nuisance species, public relations, liaison to NM Department of Health and Environment. Time

Involvement- 100%

Larry L. Lee

Field Technician/ Applicator- Vector Management Experience: 10 Years

Responsibilities: Field operations including larval surveillance and control, adult surveillance and control, complaint investigation, trapping regimes, equipment maintenance and calibration, GPS mapping and site evaluation, Bio-Assay testing of adult populations for resistance management, pesticide usage reports. Time Involvement- 100% NMDA License #54037

Stephanie A. Lee; B.S. Agriculture, NMSU 1998

Surveillance/ Lab Specialist- Vector Management Experience: 11 Years

Responsibilities: Distribution and deployment/collection of CDC light and Gravid traps, complaint investigation, larval breeding site surveillance, data base, logistics, RAMP testing of mosquito populations for WNV. Time involvement- 1000%

Dr. Paul Sandoval: PhD Environmental Health, UNM. 1995

Field Biologist - Vector Management Experience: 28 years

Responsibilities: larval/ adult surveillance, larvacide and adulticide applications. Arbovirus surveillance. Time Involvement- 40% NMDA License # 64269

CRITERIA 3. PAST CONTRACTS- INTEGRATED MOSQUITO MANAGEMENT

Entomology Consultants LLC has provided large scale, turnkey integrated mosquito management services (program explained in depth in criteria 1) to the municipalities of the City of Las Cruces, City of Deming, Town of Mesilla, Village of Hatch, and the private properties of the Las Cruces Public School District and New Mexico State University Main campus for the past thirteen years. Our management contracts have been successfully renewed through providing our clients with a cost effective arbovirus surveillance and management program. Field operations occur within the confines of each client's location and all laboratory services are completed in our lab located at 6420 Pony Express CT, Las Cruces NM.

CRITERIA 4. PRINCIPAL MEMBER/ OFFICER RESPONSIBLE FOR ADMINISTRATION OF CONTRACT AND IN DIRECT CHARGE OF THE WORK UNDER CONTRACT

Matthew D. Lee, Medical Entomologist/ Owner- Entomology Consultants LLC

P.O. Box 1149

Mesilla Park, NM 88047

(575) 639-3897

License: New Mexico Department of Agriculture- NMCA 52888 categories 1A, 1B, 3A, 3B, 7B, 7D, 8 (public health), 9, and 10

Project Time Schedule- January through December- 12 month service contract. See figure 1.

Operational/ Management Approach: Scientific based field operations as described in criteria 1 to include the proactive management of medically important arthropods (mosquitoes, ants, bees) in such a manner as to provide an overall reduction of arbovirus presence within the confines of the City of Las Cruces. Mosquito management services are biologically driven and cannot be broke down into direct hourly labor cost, unless one is able to predict weather, biological propensities of the pest, and human exposure.

Services/ Tasks to be provided:

- GIS Mapping- complete GIS mapping of all publicly accessible breeding sites within city limits.
- Larval Surveillance- evaluation of all publicly accessible breeding sites within city limits.
- Adult Surveillance- CDC light trap, gravid trap, ovi-trap, and aspiration of adult mosquitoes for population densities to aid in determining adulticide mission thresholds and arbovirus testing.
- Larval Management- Implementation of larvicide program on a proactive basis to publicly accessible sites within city limits, providing significant reduction in adult mosquitoes.
- Adult Management- Adulticide missions carried out based upon adult surveillance data, threshold based management. Resulting in reduced arbovirus presence and comfort.
- Vegetation Removal- remove of dead and live vegetation from select breeding sites, providing sunlight penetration resulting in quicker dissipation of standing water. CLC responsible for weed management within ponding areas.
- Arbovirus Screening/ Testing- Lab analysis of disease vectoring species with RAMP for West Nile Virus. Separate fee for lots of 100 test cards.
- Ant Surveys- Surveillance of city owned properties for the early management of fire ant colonies and their management.
- Bee Removal- removal of imbedded/ swarms of potential Africanized honey bees from city properties.
- Report writing- Composing monthly reports and year-end final report for Vector Task Force meetings and NPDES year-end reporting requirements.

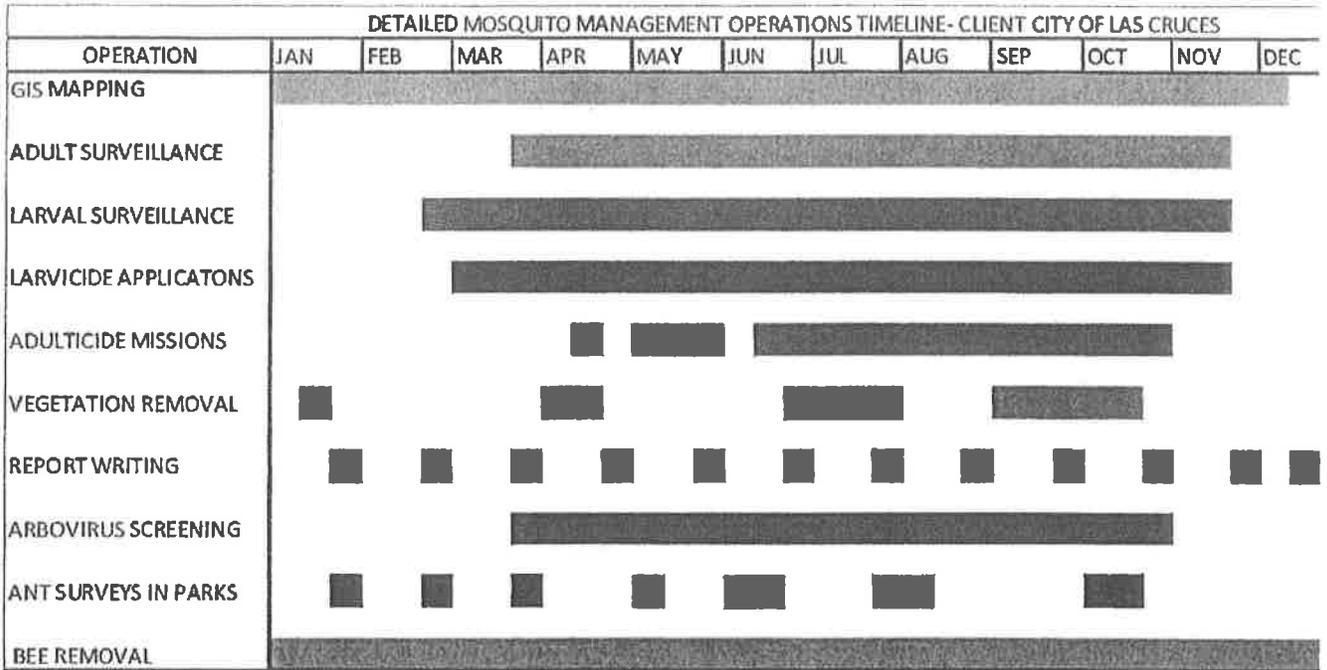


Figure 1. Detailed operations for mosquito management program- Client: City of Las Cruces

CRITERIA 5. CLIENT/ CONTRACT REFERENCES

Town of Mesilla - Integrated Mosquito Management Program

Initiated a complete arbovirus disease management program, which has been awarded to Entomology Consultants LLC from 2002 through 2015, current contract for 2016 season.

Contact: Debbie Lujan- Public Works Director - dlujan@comcast.net
(575) 524- 3262

Village of Hatch- Integrated Mosquito Management Program

Initiated a complete arbovirus disease management program, which has been awarded to Entomology Consultants LLC from 2003 through 2015.

Contact: Mayor Andy Nunez- mayor@villageofhatch.org
(575) 267-5216

City of Deming- Integrated Mosquito Management Program

Initiated a complete arbovirus disease management program, which has been awarded to Entomology Consultants LLC for the seasons 2003 through 2015

Contact: Aaron Sera- City Manager
asera@cityofdeming.org
(575) 546- 8848

Las Cruces Public Schools- Integrated Mosquito Management Program

Initiated a comprehensive program to provide control of both disease and nuisance species of mosquitoes on all LCPS properties from 2006 to 2015.

Contact: Bob Stout- Physical Plant Director
bstout@lcps.k12.nm.us
(575) 527- 5800

New Mexico State University- Integrated Mosquito Management Program

Initiated a complete arbovirus disease management program for the main campus and all off campus agriculture properties. Awarded to Entomology Consultants LLC from 2009 through 2015.

Contact: Bud Jones- NMSU Grounds Director
raljones@ad.nmsu.edu
(575) 932-9747

City of Las Cruces- Integrated Mosquito Management Program

Initiated a complete arbovirus disease management program, which has been awarded to Entomology Consultants LLC for the seasons 2003- 2015.

Contact: Mark Johnston- Facilities/Parks Director
mjohnston@las-cruces.org
(575) 541- 2651

CRITERIA 6. EQUIPMENT AND RESOURCES

Equipment and Facilities currently owned and used in Integrated Mosquito Management Program Service.

Research and Development/ Diagnostic Laboratory

1060 square foot laboratory, including insect rearing room, treatment rooms, full taxonomic lab setup, fume hood, analytical equipment, environmental chambers, and office.

Equipment Storage/ Shop

1200 square feet of equipment storage and chemical lockup.

Surveillance Equipment

- CO2 baited CDC light traps (34)
- Gravid traps and incubation solution (24)
- Ovi-Traps (30)
- 6 volt gel-cell batteries and Battery Charger (58)
- Dissecting microscope (2), field macroscope (2), and hand lens (10)
- Back Pack aspirator (1)
- Sweep nets (3)
- Garmin GPS (3)
- Custom Computer Vector Mapping Program
- Collection vials and other miscellaneous equipment

- Standard 350ml dippers- for larval sampling (12)
- Digital Camera (3)
- RAMP- WNV analytical equipment including pipets, centrifuge, and vortex mixers

Larval Control Equipment

- Polaris Ranger (1)- equipped with high visibility green strobe light, fully equipped with DynaFog Mini- light ULV fogger with Slinger Attachment for granular larvacides. A 100# spreader attachment. Dipper's. Liquid sprayer system. ATV will be clearly marked with company logo, NM CA #, and licensed. Capable of applying granular larvacides at a rate of 24.2 acres treated per hour.
- Polaris Sportsman (2)- Equipped with custom granular larvacide applicator and liquid spray system.
- Maruyama MD 155DX backpack mister/duster (3) - for power applications of granular and liquid products over large areas.
- Agnique Sprayer (2) - providing exact metering of product application based on area calculations.
- Solo backpack (3)- spot application of liquid formulations.
- 50 Gallon Electric Power Sprayer with 150 feet of hose (1)- large scale liquid larvacide applications.

Adult Control Mosquito Equipment

- Pro Mist 25 HD Electric ULV fogger by BEECOMIST (1)- Noise level of 80db.. Extremely quite operation compared to gas powered units.
- Curtis DynaFog L-30 ULV fogger (2)- Noise level of 72db.
- Curtis DynaFog Mini-Lite ULV fogger (1)- Mounted on ATV for small scale, confined areas, and tread-lightly areas such as athletic fields.
- Solo Backpack Mister (2)- for Special Events barrier treatment applications.
- A-1 Mistblower (1)- 20 gallon tank. ATV mounted providing rapid barrier treatments on large scale.
- Kestral 1000 Wind Meter (3)
- Kestral 4500 Weather Meter Station (1)- Field weather data logger for insecticide resistance studies.
- VWR Digital Thermometer (3)
- GPS Hand-held Units (3)
- Laptop and tablet Computers- (3)- Field data collection services with cellular internet cards.
- Rotator droplet analyzer (2) and slides- Field calibration for droplet size analysis
- Vehicles (4) - 3 application trucks and 1 surveillance truck
- Trailers (2)- 12 foot and 20 foot equipment trailers

TOTAL EQUIPMENT VALUE EXCLUDING VEHICLES (TRUCKS), TRAILERS, LAB, AND SHOP \$73,561

ATTACHMENTS-

1. NMDA Certified Applicators License
2. Liability Insurance Certificate

NEW MEXICO DEPARTMENT OF AGRICULTURE
Pesticide Applicator License

This person has met the licensing requirement for the type of license and the pest control categories shown.

COMMERCIAL PESTICIDE APPLICATOR Expires Dec 31 of 2016

LEE, MATTHEW

ENTOMOLOGY CONSULTANTS LLC

Lic No. 52888

Categories 1A,1B,3A,3B,7A,7B,7C,8,10

Questions? Contact NMDA 675-646-2134

NEW MEXICO DEPARTMENT OF AGRICULTURE
Pesticide Applicator License

This person has met the licensing requirement for the type of license and the pest control categories shown.

COMMERCIAL PESTICIDE APPLICATOR Expires Dec 31 of 2016

SANDOVAL, PAUL C.

ENTOMOLOGY CONSULTANTS LLC

Lic No. 64269

Categories 3B,7A,7B,8

Questions? Contact NMDA 675-646-2134

NEW MEXICO DEPARTMENT OF AGRICULTURE
Pesticide Applicator License

This person has met the licensing requirement for the type of license and the pest control categories shown.

OPERATOR/TECHNICIAN Expires Dec 31 of 2016

LEE, LARRY L.

ENTOMOLOGY CONSULTANTS LLC

Lic No. 54037

Categories 1A,1B,3A,3B,7A,7B,7C,8,10

Questions? Contact NMDA 675-646-2134

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED (INCLUDING COMPLETED OPERATIONS)
AUTOMATIC STATUS WHEN REQUIRED IN WRITTEN AGREEMENT WITH YOU**

The insurance provided by this endorsement shall not serve to increase our limits of insurance as described in SECTION III-LIMITS OF INSURANCE

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

- A. Section II – Who Is An Insured is amended to include as an additional insured any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or written agreement that such person or organization be added as an additional insured on your policy. Such person or organization is an additional insured only with respect to liability for:
1. "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:
 - a. Your acts or omissions; or
 - b. The acts or omissions of those acting on your behalf in the performance of your ongoing operations and for that additional insured.
 2. bodily injury" or "property damage" included in the "products-completed operations hazard" (completed operations) in respect of "your work" performed for that additional insured
- B. This insurance shall be considered primary if any other valid and collectible insurance is available to any person or organization included as an additional insured under this endorsement and such other insurance shall be excess of and will not contribute to the insurance afforded by this endorsement.
- C. We will waive any right of recovery we may have against any person or organization whom you have agreed to waive such right of recovery in a written contract or written agreement because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with that person or organization and included within the "products-completed operations hazard."
- D. With respect to the insurance afforded to these additional insureds, the following additional exclusion applies:
This insurance does not apply to "bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:
1. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
 2. Supervisory, inspection, architectural or engineering activities.

All other terms, conditions and exclusions under the policy are applicable to this Endorsement and remain unchanged.

COST PROPOSAL**RFP 15-16-060****ENTOMOLOGY CONSULTANTS LLC**

A one (1) year term contract, subject to yearly renewals (2), for the seasons 2016- 2018 will be provided as described in the pages of the technical proposal. Terms of payment shall be 12 payments per contract year, net 30 with 18% interest charged per annum on all late payments. Total charge for 2016 mosquito season work will be completed from March 1 – November 1 2016. City of Las Cruces shall be named additional insured upon contract award, with complete copy of liability policy delivered.

General Services Provided Under Contract

- **Public Relations**
- **Computer Based Mapping of all Breeding Sites**
- **Complete Weather Monitoring**
- **Monthly Mosquito Board Meetings**
- **Annual Year End Report/ Monthly Field Reports**
- **Larval Breeding Site Inspections**
- **Larvacide Application**
- **CDC Light Trap and Gravid Trap Surveillance Network**
- **Complete Taxonomy of all Species Caught**
- **Adult Mosquito Complaint Investigations**
- **Ground ULV Adulticide Application with GIS Tracking**
- **Fire Ant Surveys/ Control with Advion Bait or Advance Granular Bait**
- **Africanized Bee Removal**
- **City of Las Cruces Named as Additional Insured**

PROPOSED 2016 SEASON CONTRACT COST.... \$91,686.00 plus any applicable New Mexico State Gross Receipts Tax (Dona Ana County Tax Rate) per contract year. The 2016 cost is a 7.5% increase over the previous 4 year contract cost. This cost covers all direct, indirect, labor, materials, and equipment necessary to provide service specified in Criteria 1 of technical proposal. Pass through price adjustments shall apply on a yearly basis after year one of contract.

Add-on Contingency Emergency Services (additional cost, provided upon request)

- **WNV RAMP Testing- 100 cards (100 mosquito pools tested for WNV) : \$2,800**
- **Emergency Wide Scale Ground ULV Adulticiding: \$55 per Linear Mile plus tax.**
- **Top Choice application for Imported Fire Ants: \$443 per acre applied.**
- **Other pests which may plague the City of Las Cruces- priced upon request.**



Matthew Lee

Medical Entomologist

Entomology Consultants LLC



RFP COMPLIANCE DECLARATION

RFP TITLE: Vector & Pest Control Services
RFP NO.: 15-16-060
DUE DATE/TIME: October 20, 2015 / 4:00 p.m.

In compliance with the requirements of this RFP, I, the undersigned, offer and agree to furnish any or all materials and/or services to the City of Las Cruces within the time agreed.

I further certify that this company has not been debarred, suspended, or otherwise made ineligible for participation in Federal Assistance programs under Executive Order 12549 Debarment and Suspension as described in the Federal Rules and Regulations.

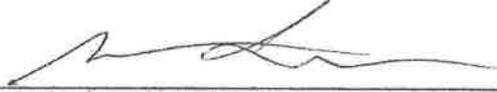
Receipt of Addenda Nos.: 0 is hereby acknowledged (where none received, place a zero in this space)

Company Name and Address:

Entomology Consultants LLC

P.O. Box 1149

Mesilla Park, NM 88047


 Authorized Signature

Matthew Lee

Typed or Printed Name

Medical Entomologist

Title

entconsultants@hotmail.com

Email address

Telephone number (575) 639-3897 Fax number _____

NM Tax & Revenue Dept. CRS # 03-116819-00-1

Current NM Public Regulatory Commission Registration # _____ (corporations only)

Current CLC Business Registration # _____ (respondents located in Las Cruces only)

Federal I.D. number 47-2715956 (mandatory for all respondents)

NM Resident Certificate from NM Tax and Revenue Department enclosed Yes No

**THIS FORM MUST BE COMPLETED AND INCLUDED WITH PROPOSAL
 FAILURE TO INCLUDE WILL SUBJECT RESPONSE TO REJECTION**

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CITY OF LAS CRUCES

PURCHASING MANAGER'S REQUEST TO CONTRACT

For Meeting of: February 1, 2016

Resolution No.: 15-16-060

**Contract Purchase For
Vector and Pest Control Services**

The Las Cruces City Council is provided the following information concerning this request:

RFP SOLICITATION INFORMATION:

- 1. RFP No./ Due Date: **RFP No. 15-16-060 / October 20, 2015**
- 2. Description: **Vector and Pest Control Services**
- 3. Using Department: **Parks and Recreation**
- 4. Number of Responses Solicited: **Six (6)**
- 5. Number of Responses Accepted: **One (1)**
- 6. Award Recommendation To: **Entomology Consultants LLC, Las Cruces, NM**
- 7. Total Award Amount: **Indefinite Quantity, Indefinite Cost**
- 8. Contract Duration: **Three (3) years subject to annual renewals and approved budgets**

LOCAL PREFERENCE FACTOR

Local Preference Factor Applied Per LCMC §24-100	No			LCMC §24-100 not applicable to this solicitation
	Yes	X		Made A Difference To Awards(s)
			X	Made No Difference To Bid Award(s)

PROCUREMENT CODE COMPLIANCE:

The City of Las Cruces Procurement Code was administered in the conduct of this procurement and approval to purchase is hereby requested pursuant to **Section 24-92**.

Deb Smith *11-8-16*
Purchasing Manager Date

CONFIRMATION OF FUND ENCUMBRANCE:

REQUISITION or PURCHASE ORDER NUMBER:	TBD
---------------------------------------	------------

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City of Las Cruces[®]

PEOPLE HELPING PEOPLE

COUNCIL ACTION AND EXECUTIVE SUMMARY PACKET ROUTING SLIP

For Meeting of _____
(Ordinance First Reading Date)

For Meeting of February 2, 2016
(Adoption Date)

TITLE: A RESOLUTION APPROVING AN INDEFINITE QUANTITY, INDEFINITE COST CONTRACT FOR VECTOR AND PEST CONTROL SERVICES PRICE AGREEMENT AWARDED TO ENTOMOLOGY CONSULTANTS, LLC OF LAS CRUCES, NM FOR A THREE (3) YEAR TERM CONDITIONED UPON ANNUAL RENEWALS AND PENDING APPROVED BUDGETS.

Purchasing Manager's Request to Contract (PMRC) {Required?} Yes No

DEPARTMENT	SIGNATURE	PHONE NO.	DATE
Drafter/Staff Contact Mark Johnston		541-2550	1/8/16
Department Director Mark Johnston		541-2550	1/21/16
Other ROBERT COLEMAN BUDGET MANAGER		541-2107	01-08-2016
Assistant City Manager /CAO Management & Budget Manager		541-2078	1/11/16
Assistant City Manager/COO			1/11/16
City Attorney		EXT 2128	21 JAN 2016
City Clerk		x2116	1-21-16