

**Issue Date: January 9, 2015**

**INVITATION FOR BIDS #Y15-1003-PD**

**NOTICE IS HEREBY GIVEN** that the Board of County Commissioners of Orange County, Florida, henceforth referred to as the County is accepting sealed bids for:

**Transport, Processing and Disposal of Biosolids for the Eastern and Northwest Water Reclamation Facility**

**TERM CONTRACT**

Sealed bid offers in an **original** and **three (3) copies** for furnishing the above will be accepted up to **2:00 PM (local time), Thursday, January 29, 2015**, in the Procurement Division, Internal Operations Centre II, 400 E. South Street, 2nd Floor, Orlando, FL 32801.

Copies of the bid documents may be obtained from the Orange County Procurement Division at the above address. Copies may be requested by phoning (407) 836-5635 or by download from the Internet at:

<http://apps.ocfl.net/orangebids/bidopen.asp>

A **Non-Mandatory Pre-Bid Conference** will be held on **Thursday, January 15, 2015, 1:00 P.M.**, located at **Eastern Water Reclamation Facility, 1621 South Alafaya Trail, Orlando Florida 32828**. Attendance is not mandatory but is encouraged.

Johnny M. Richardson, CPPO, CFCM  
Manager, Procurement Division

**NOTICE TO BIDDERS**

To ensure that your bid is responsive, you are urged to request clarification or guidance on any issues involving this solicitation before submission of your response. Your point-of-contact for this solicitation is Perry Davis, Senior Purchasing Agent at [Perry.Davis@ocfl.net](mailto:Perry.Davis@ocfl.net).

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## GENERAL TERMS AND CONDITIONS

### 1. GENERAL INFORMATION

These specifications constitute the complete set of requirements and bid forms. The bid response page(s), and all forms listed on the bid response page(s) shall be completed, signed, and sealed in an envelope bearing the bid number on the outside and mailed or presented to the Procurement Division on or before the specified time and date. **Failure to comply with the preceding requirements shall result in the rejection of the bid.**

**Bids submitted by e-mail, telephone or fax shall not be accepted. An e-mailed or a faxed bid shall be rejected as non-responsive regardless of where it is received.**

It is the sole responsibility of the Bidder to ensure that their bid reaches the Procurement Division. All bids, unless otherwise specified, must be delivered to the following address no later than the time and date specified in the solicitation:

Procurement Division  
Internal Operations Centre II  
400 E. South Street, 2nd Floor  
Orlando, FL 32801

Bidders are cautioned that they are responsible for delivery to the specific location cited above. Therefore, if your bid is delivered by an express mail carrier or by any other means, it is your responsibility to ensure delivery to the above address. This office will not be responsible for deliveries made to any place other than the specified address.

**The County shall not be responsible for delays caused by any occurrence. The time/date stamp clock located in the Procurement Division shall serve as the official authority to determine lateness of any bid. The bid time shall be scrupulously observed. Under no circumstances shall bids delivered after the time specified be considered. Late bids will be returned to the Bidder unopened. The decision to refuse to consider a bid that was received beyond the date/time established in the solicitation shall not be the basis for a protest pursuant to the Orange County Code (Procurement Ordinance).**

All bids must be typewritten or filled in with pen and ink, and must be signed in ink by an officer or employee having authority to bind the company or firm. Errors, corrections, or changes on any document must be initialed by the signatory of the bid.

Bidders shall not be allowed to modify their bids after the opening time and date. Bid files may be examined during normal working hours, thirty (30) days after bid opening or upon recommendation for award, whichever occurs first. Bidders desiring to view these documents are urged to schedule an appointment.

For information concerning this bid, please contact the Procurement Division at the address listed above or by calling 407-836-5635. Please specify the bid number for which you are inquiring.

**2. QUESTIONS REGARDING THIS SOLICITATION**

All questions or concerns regarding this Invitation for Bids shall be submitted by email to [Perry.Davis@ocfl.net](mailto:Perry.Davis@ocfl.net), no later than 5:00 PM Tuesday, January 20, 2015 to the attention of Perry Davis, Procurement Division, referencing the IFB number. When required the Procurement Division shall issue an addendum to the Invitation for Bids. The addendum shall be available on the Internet for access by potential Bidders. Bidders are instructed not to contact the initiating division directly. No oral interpretation of this Invitation for Bids shall be considered binding. The County shall be bound by information and statements only when such statements are written and executed under the authority of the Manager, Procurement Division.

This provision exists solely for the convenience and administrative efficiency of Orange County. No Bidder or other third party gains any rights by virtue of this provision or the application thereof, nor shall any Bidder or third party have any standing to sue or cause of action arising there from.

**3. FEDERAL AND STATE TAX**

The County is exempt from Federal and State Sales and Use Taxes for tangible personal property (Certificate of Registry for tax transactions under Chapter 32, Internal Revenue Code and Florida Sales/Use Tax Exemption Certificate). The Manager, Procurement Division will sign an exemption certificate submitted by the Contractor.

Contractors doing business with the County shall not be exempted from paying sales tax to their suppliers for materials to fulfill contractual obligations with the County, nor shall any Contractor be authorized to use the County's Tax Exemption Number in securing such materials.

**4. ACCEPTANCE/REJECTION/CANCELLATION**

The County reserves the right to accept or to reject any or all bids and to make the award to that bidder who, in the opinion of the County, will be in the best interest of and/or the most advantageous to the County. The County also reserves the right to reject the bid of any bidder who has previously failed in the proper performance of an award or to deliver on time contracts of a similar nature or who, in the County's opinion, is not in a position to perform properly under this award. The County reserves the right to inspect all facilities of bidders in order to make a determination as to the foregoing. The County reserves the right to waive any irregularities and technicalities and may, at its discretion, request a re-bid. Award will be made to the lowest responsive and responsible bidder as determined by the County.

The County reserves the right, and the Manager, Procurement Division has absolute and sole discretion, to cancel a solicitation at any time prior to approval of the award by the Board of County Commissioners when such approval is required. The decision to cancel a solicitation cannot be the basis for a protest pursuant to the Orange County Code.

**5. NO BID**

Where more than one item is listed, any items not bid upon shall be indicated as "NO BID".

**6. CONFLICT OF INTEREST**

The award is subject to provisions of applicable State Statutes and County Ordinances. All bidders must disclose with their bid the name of any officer, director, or agent who is also an employee of Orange County. Further, all bidders must disclose the name of any County employee who owns, directly or indirectly, an interest of ten percent (10%) or more in the Bidder's firm or any of its branches. Should the Contractor permanently or temporarily hire any County employee who is, or has been, directly involved with the Contractor prior to or during performance of the resulting contract, the contract shall be subject to immediate termination by the County.

**7. LEGAL REQUIREMENTS**

All applicable Federal and State laws and County ordinances, that in any manner affect the items covered herein apply. Lack of knowledge by the Bidder shall in no way be a cause for relief from responsibility.

A. Contractors doing business with the County are prohibited from discriminating against any employees, applicant, or client because of race, religion, color, disability, national origin, gender, or age with regard to but not limited to the following: employment practices, rates of pay or other compensation methods, and training selection.

B. Minority/Women Business Enterprises (M/WBE) indicates a business entity of which 51% or more is owned and operated by a minority. In this instance, minority group members are citizens of the United States or lawfully admitted permanent residents who are Black, Hispanic, Women, Native American, Asian-Pacific, Asian-Indian. Businesses wishing to participate in the County procurement process as an M/WBE are required to complete a certification application to attain recognition as such. You may contact the Procurement Division or the Business Development Division for information and assistance.

**8. MISTAKES**

In the event of extension error(s), the unit price will prevail and the Bidder's total offer will be corrected accordingly. In the event of addition errors, the extended totals will prevail and the Bidder's total will be corrected accordingly.

Bidders must check their bid where applicable. Failure to do so will be at the Bidder's risk. Bids having erasures or corrections must be initialed in ink by the Bidder.

**9. AVAILABILITY OF FUNDS**

The obligations of the County under this award are subject to the availability of funds lawfully appropriated for its purpose by the State of Florida and the Orange County Board of County Commissioners, or other specified funding source for this procurement.

**10. EEO STATEMENT**

It is hereby declared that equal opportunity and nondiscrimination shall be the County's policy intended to assure equal opportunities to every person, regardless of race, religion, sex, sexual orientation and gender expression/identity, color, age, disability or national origin, in securing or holding employment in a field of work or labor for which the person is qualified, as provided by Section 17-314 of the Orange County Code and the County Administrative Regulations.

Further, the Contractor shall abide by the following provisions:

- A. The Contractor shall represent that the Contractor has adopted and maintains a policy of nondiscrimination as defined by applicable County ordinance throughout the term of this contract.
- B. The Contractor shall allow reasonable access to all business and employment records for the purpose of ascertaining compliance with the non-discrimination provision of the contract.

The provisions of the prime contract shall be incorporate by the Contractor into the contracts of any applicable subcontractors.

**11. BID TABULATION AND RESULTS**

Bid tabulations shall be available thirty (30) days after opening on the Orange County website at: <http://apps.ocfl.net/orangebids/bidresults/results.asp>, or upon notice of intended action, whichever is sooner.

**12. BID FORMS**

All bids must be submitted on the County's standard Bid Response Form. Bids on Bidder's quotation forms shall not be accepted.

**13. FLORIDA PREFERENCE**

In the event this Invitation for Bids is to acquire personal property and the lowest responsive and responsible bid submitted in response to this Invitation for Bids, is by a bidder whose principal place of business is in a state other than Florida

and such state or political subdivision thereof grants a preference for the purchase of personal property to a person whose principal place of business is in said state, then Orange County Florida may award a preference to the lowest responsive and responsible bidder having a principal place of business within the State of Florida. Such preference shall be equal to the preference granted by the state in which the lowest responsive and responsible bidder has its principal place of business. This section shall not apply to transportation projects in which Federal aid funds are used.

Any bidder whose principal place of business is outside the State of Florida must accompany any written bid documents with a written opinion of an attorney at law licensed to practice law in that foreign state, as to the preferences, if any or none, granted by the law of that state to its own business entities whose principal places of business are in that foreign state in the letting of any or all public contracts. Reference Florida Statutes 287.084.

**14. RECIPROCAL PREFERENCE**

In the event the lowest responsive and responsible bid submitted in response to any Invitation for Bids is by a bidder whose principal place of business is in a county other than Orange County, and such county grants a bid preference for purchases to a bidder whose principal place of business is in such a county, then Orange County may award a preference to the next lowest responsive and responsible bidder having a principal place of business within Orange County Florida. Such preference shall be equal to the preference granted by the county in which the lowest responsive and responsible bidder has its principal place of business.

**15. POSTING OF RECOMMENDED AWARD AND PROTESTS**

The recommended award will be posted for review by interested parties at the Procurement Division and at:

<http://apps.ocfl.net/OrangeBids/AwardsRec/default.asp> prior to submission through the appropriate approval process and will remain posted for a period of five (5) full business days.

- **Orange County Lobbyist Regulations General Information**  
<http://www.orangecountyfl.net/OpenGovernment/LobbingAtOrangeCounty.aspx>

A lobbying blackout period shall commence upon issuance of the solicitation until the Board selects the Contractor. For procurements that do not require Board approval, the blackout period commences upon solicitation issuance and concludes upon contract award.

The Board of County Commissioners may void any contract where the County Mayor, one or more County Commissioners, or a County staff person has been lobbied in violation of the black-out period restrictions of Ordinance No. 2002-15.

- **Orange County Protest Procedures**  
<http://www.orangecountyfl.net/VendorServices/VendorProtestProcedures.aspx>

Failure to file a protest with the Manager, Procurement Division by 5:00 PM on the fifth full business day after posting, shall constitute a waiver of bid protest proceedings.

**16. BID AND RELATED COSTS**

By submission of a bid, the Bidder agrees that any and all costs associated with the preparation of the bid will be the sole responsibility of the Bidder. The Bidder also agrees that the County shall bear no responsibility for any costs associated with the preparation of the bid including but not limited to any administrative or judicial proceedings resulting from the solicitation process.

**17. CONTRACTUAL AGREEMENT**

This Invitation for Bids shall be included and incorporated in the final contract or purchase order. The order of contract precedence will be the contract (purchase order), bid document, and response. Any and all legal actions associated with this Invitation for Bids and/or the resultant contract (purchase order) shall be governed by the laws of the State of Florida. Venue for any litigation involving this contract shall be the Ninth Circuit Court in and for Orange County, Florida.

**18. PUBLIC ENTITY CRIME**

Section 287.133(3)(d), Florida Statutes, provides that the Florida Department of Management Services shall maintain a list of the names and addresses of those who have been disqualified from participating in the public contracting process under this section.

[http://www.dms.myflorida.com/business\\_operations/state\\_purchasing/vendor\\_information/convicted\\_suspended\\_discriminatory\\_complaints\\_vendor\\_lists/convicted\\_vendor\\_list](http://www.dms.myflorida.com/business_operations/state_purchasing/vendor_information/convicted_suspended_discriminatory_complaints_vendor_lists/convicted_vendor_list)

A person or affiliate who has been placed on The Convicted Vendor list following a conviction for a public entity crime shall not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, shall not submit bids on leases of real property to a public entity, shall not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with a public entity, and shall not transact business with any public entity in excess of the threshold amount provided in Florida Statute Section 287.017, for CATEGORY TWO for a period of thirty-six (36) months from the date of being placed on The Convicted Vendor List.

**19. DRUG-FREE WORKPLACE FORM**

The Drug-Free Workplace Form is attached and shall be completed and submitted with your bid.



**20. SUBCONTRACTING**

Bidders subcontracting any portion of the work shall state name and address of subcontractor and the name of the person to be contacted on the attached "Schedule of Subcontractors Form".

**21. CONFLICT OF INTEREST FORM**

Bidder shall complete the Conflict of Interest Form attached hereto and submit it with their bid.

**22. ETHICS COMPLIANCE**

The following forms are included in this solicitation and shall be completed and submitted as indicated below:

- A. **Orange County Specific Project Expenditure Report** -The purpose of this form is to document any expenses incurred by a lobbyist for the purposes described in **Section 2-351, Orange County Code**. This form shall be completed and submitted with all bid responses to an Orange County solicitation. Any questions concerning this form shall be addressed to the purchasing agent identified in the applicable solicitation.
- B. **Relationship Disclosure Form** – The purpose of this form is to document any relationships between a bidder to an Orange County solicitation and the Mayor or any other member of the Orange County Board of County Commissioners. This form shall be completed and submitted with the applicable bid to an Orange County solicitation.

**No contract award shall be made unless these forms have been completed and submitted with the bid.** Any questions concerning these forms shall be addressed to the purchasing agent identified in this solicitation. Also, a listing of the most frequently asked questions concerning these forms is attached to each for your information.

**23. SUBMISSION OF BID**

The bid must be mailed or hand delivered in a sealed envelope to:

**ORANGE COUNTY PROCUREMENT DIVISION**  
Internal Operations Centre II  
400 E. South Street, 2nd Floor  
Orlando, Florida 32801

**Bidders must indicate on the sealed envelope the following:**

- A. Invitation for Bids Number
- B. Hour and Date of Opening
- C. Name of Bidder

Bids received after the time, date, and/or at the location specified, due to failure to identify the envelope with the above information shall be rejected.

**24. COPIES**

Copies of documents, records, materials, and/or reproductions requests will be charged in accordance with Orange County's fee schedule. Copyrighted materials may be inspected, but cannot be copied or reproduced per Federal law.

**25. PROPRIETARY/RESTRICTIVE SCOPE OF WORK/SERVICES**

If a prospective bidder considers the scope of work/services contained herein to be proprietary or restrictive in nature, thus potentially resulting in reduced competition, they are urged to contact the Procurement Division prior to bid opening. Specifications which are unrelated to performance will be considered for deletion via addendum to this Invitation for Bids.

**26. ASSISTANCE WITH SCOPE OF WORK/SERVICES**

Any prospective bidder who assisted the County in developing or writing the scope of work/services contained herein are requested to so note such on the bid response page.

**27. PAYMENT TERMS/DISCOUNTS**

The County's payment terms are in accordance with Florida Statute 218, Local Government Prompt Payment Act. Cash discounts for prompt payment shall not be considered in determining the lowest net cost for bid evaluation purposes.

**28. PATENTS AND ROYALTIES**

Unless otherwise provided, the Contractor shall be solely responsible for obtaining the right to use any patented or copyrighted materials in the performance of the contract resulting from this Invitation for Bids.

The Contractor, without exception, shall indemnify and save harmless the County and its employees from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or supplied by the Contractor. In the event of any claim against the County of copyright or patent infringement, the County shall promptly provide written notification to the Contractor. If such a claim is made, the Contractor shall use its best efforts to promptly purchase for the County any infringing products or services or procure a license, at no cost to the County, which will allow continued use of the service or product.

If none of the alternatives are reasonably available, the County agrees to return the article on request to the Contractor and receive reimbursement, if any, as may be determined by a court of competent jurisdiction.

**29. INDEMNIFICATION**

To the fullest extent permitted by law, the Contractor shall defend, indemnify, and hold harmless the County, its officials, agents, and employees from and against any and all claims, suits, judgments, demands, liabilities, damages, cost and expenses including attorney's fees of any kind or nature whatsoever arising directly or indirectly out of or caused in whole or in part by any act or omission of the Contractor or its subcontractors, anyone directly or indirectly employed by them, or anyone for whose acts any of them may be liable; excepting those acts or omissions arising out of the sole negligence of the County.

**30. CLARIFICATIONS**

It is the Bidder's responsibility to become familiar with and fully informed regarding the terms, conditions and specifications of this Invitation for Bids. Lack of understanding and/or misinterpretation of any portions of this Invitation for Bids shall not be cause for withdrawal of your bid after opening or for subsequent protest of award. Bidder's must contact the Procurement Division, at the phone number on the bid cover sheet **prior** to bid opening, should clarification be required.

Modification or alteration of the documents contained in the solicitation or contract shall only be valid if mutually agreed to in writing by the Bidder and the County.

**31. CERTIFICATION OF INDEPENDENT PRICE DETERMINATION**

By submission of this bid, the Bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, that in connection with this procurement:

- A. The prices in this bid have been arrived at independently, without consultation, collusion, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
- B. Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder prior to opening, directly or indirectly to any other Bidder or to any competitor; and,
- C. No attempt has been made or shall be made by the Bidder to induce any other person or bidder to submit or not to submit a bid for the purpose of restricting competition.

**32. SUCCESSORS AND ASSIGNS**

The County and the Contractor each binds itself and its partners, successors, executors, administrators, and assigns to the other party of this Contract and to the partners, successors, executors, administrators, and assigns of such other party, in respect to all covenants of this Contract. Except as above, neither the County nor the Contractor shall assign, sublet, convey or transfer its interest in this Contract without the written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of the County which may be a party hereto, nor shall it be construed as giving any rights or benefits hereunder to anyone other than the County and the Contractor.

**33. PRICING/AUDIT**

The Contractor shall establish and maintain a reasonable accounting system, which enables ready identification of Contractor's cost of goods and use of funds. Such accounting system shall also include adequate records and documents to justify all prices for all items invoiced as well as all charges, expenses and costs incurred in providing the services for at least five (5) years after completion of this contract. The County or its designee shall have access to such books, records, subcontract(s), financial operations, and documents of the Contractor or its subcontractors, as required to comply with this section for the purpose of inspection or audit anytime during normal business hours at the Contractor's place of business. This right to audit shall include the Contractor's subcontractors used to procure services under the contract with the County. Contractor shall ensure the County has these same rights with subcontractors and suppliers.

**34. EMPLOYEES OF THE CONTRACTOR**

All work under this contract shall be performed in a professional and skillful manner. The County may require, in writing, that the Contractor, remove from this contract any employee the County deems incompetent, careless, or otherwise objectionable.

**35. TOBACCO FREE CAMPUS**

All Orange County operations under the Board of County Commissioners shall be tobacco free. This policy shall apply to parking lots, parks, break areas and worksites. It is also applicable to Contractors and their personnel during contract performance on County owned property. Tobacco is defined as tobacco products including, but not limited to, cigars, cigarettes, e-cigarettes, pipes, chewing tobacco and snuff. Failure to abide by this policy may result in civil penalties levied under Chapter 386, Florida Statutes and/or contract enforcement remedies.

**36. CONTRACT CLAIMS**

“Claim” as used in this provision means a written demand or written assertion by one of the contracting parties seeking as a matter of right, the payment of a certain sum of money, the adjustment or interpretation of contract terms, or other relief arising under or relating to this contract.

Claims made by a Contractor against the County, relating to a particular contract shall be submitted to the Manager, Procurement Division in writing clearly labeled “Contract Claim” requesting a final decision. The Contractor also shall provide with the claim a certification as follows: “I certify that the claim is made in good faith; that the supporting data are accurate and complete to the best of my knowledge and belief; that the amount requested accurately reflects the contract adjustment for which the Contractor believes the County is liable; and that I am duly authorized to certify the claim on behalf of the Contractor.”

**Failure to document a claim in this manner shall render the claim null and void. No claim shall be accepted after final payment of the contract.**

The decision of the Manager, Procurement Division shall be issued in writing and furnished to the Contractor. The decision shall state the reasons for the decision reached. The Manager, Procurement Division shall render the final decision within sixty (60) days after receipt of Contractor’s written request for a final decision. The Manager, Procurement Division decision shall be final and conclusive.

The Contractor shall proceed diligently with performance of this contract pending final resolution of any request for relief, claim, appeal or action arising under the contract and shall comply with any final decision rendered by the Manager, Procurement Division.

**37. VERIFICATION OF EMPLOYMENT STATUS**

Prior to the employment of any person under this contract, the Contractor shall utilize the U.S. Department of Homeland Security’s E-Verify system to verify the employment eligibility of (a) all persons employed during the contract term by the Contractor to perform employment duties within Florida and (b) all persons, including subcontractors, assigned by the Contractor to perform work pursuant to the contract with Orange County. For more information on this process, please refer to United States Citizenship and Immigration Service site at:

<http://www.uscis.gov/portal/site/uscis>.

**Only those employees determined eligible to work within the United States shall be employed under this contract.**

By submission of a bid in response to this solicitation, the Contractor affirms that all employees in the above categories shall undergo e-verification before placement on this contract. The Contractor shall commit to comply with this requirement by completing the E-Verification certification, attached to this solicitation.

**38. CONFIDENTIAL INFORMATION**

In accordance with Chapter 119 of the Florida Statutes (Public Records Law), and except as many be provided by other applicable State or Federal Law, all proposers should be aware that Invitation for Bids and the responses thereto are in the public domain. Bidders must identify specifically any information contained in their response which they consider confidential and/or proprietary and which they believe to be exempt from disclosure, **citing specifically the applicable exempting law**. If a Bidder fails to cite the applicable exempting law, we will treat the information as public.

## **SPECIAL TERMS AND CONDITIONS**

### **1. PRE-BID CONFERENCE**

All interested parties are invited to attend a **Pre-Bid Conference** on **Thursday, January 15, 2015, 1:00 P.M. located at Eastern Water Reclamation Facility 1621 South Alafaya Trail, Orlando Florida 32828.**

At that time, the County's representative will be available to answer questions relative to this Invitation for Bids. Any suggested modifications may be presented in writing to, or discussed with, the County's representative(s) at this meeting and may be considered by said representative(s) as possible amendments to the Invitation for Bids.

### **2. QUALIFICATION OF BIDDERS**

This bid shall be awarded to a responsible, responsive bidder, qualified by experience to provide the work specified. The bidder will submit the following information with his bid:

- A. List and brief description of similar work satisfactorily completed with location, dates of contract, names, addresses and telephone numbers of owners by completing the reference sheets on pages 34 and 35.
- B. A copy of the Florida Department of Environmental Protection operating permit for the facility providing biosolids treatment.
- C. Proof of all applicable approvals for disposal of the biosolids specified herein including verification of legal access to the proposed disposal sites.
- D. A U.S. Geological Survey Topographic Map identifying all areas intended for the disposal of biosolids.
- E. A copy of the approved Agricultural Use Plan or dedicated site plan (as described in Chapter 62-640 F.A.C.).
- F. List of equipment and facilities available to do the work.
- G. Furnish proof of all permits and licenses required for performing the work specified here in to Orange County.

**Failure to submit the above requested information may be cause for rejection of your bid.**

### **3. LICENSES AND PERMITS**

Prior to furnishing the requested service(s), it shall be the responsibility of the Contractor to obtain, at no additional cost to Orange County, any and all licenses and permits required to complete all contractual requirements. These licenses and permits shall be readily available for review by the Manager, Procurement Division or authorized designee.

4. **BID ACCEPTANCE PERIOD**

A bid shall constitute an irrevocable offer for a period of ninety (90) days from the bid opening date or until the date of award. In the event that an award is not made by the County within ninety (90) days from the bid opening date, the Bidder may withdraw their bid or provide a written extension of their bid.

5. **AWARD**

Award shall be made on an "All-or-None Total Estimated Bid" basis to the lowest responsive and responsible Bidder.

6 **POST AWARD MEETING**

Within **three** (3) days after receipt of notification of award of bid, Contractor shall meet with the County's representative(s) to discuss job procedures and scheduling.

7. **PERFORMANCE**

**Timely performance is of the essence in the award of this Invitation for Bids.** Vendor shall be able to provide a minimum of seven (7) trailers at the Eastern and three (3) trailers at the Northwest Facilities to meet the daily requirements at each facility. Bids which fail to meet this requirement shall be rejected.

It is hereby understood and mutually agreed to by and between parties hereto that the time of performance is an essential condition of this contract.

Should the Contractor neglect, fail or refuse to provide the services within the time herein specified, then said Contractor does hereby agree as part of the consideration for the awarding of this contract, to pay Orange County the sum extended by the County to contract for like services approved by the Procurement Division for the period from the required scheduled commencement date until performance of services covered in the Invitation for Bids is completed.

The Contractor shall, within **one** (1) calendar days from the beginning of such delay, notify the Manager, Procurement Division in writing of the cause(s) of the delay.

8. **LIQUIDATED DAMAGES**

Should the Contractor fail to complete the required services within the time(s) specified in the contract, or within such additional time(s) as may be granted by Orange County, the County shall suffer damage, the amount of which is difficult, if not impossible to ascertain. Therefore, the Contractor shall pay to the County, as liquidated damages, the sum of \$250.00 for each calendar day of delay that actual completion extends beyond the time limit specified until such reasonable time as may be required for final completion of the work. Such sum is mutually



agreed upon as a reasonable and proper amount of damages the County shall sustain per diem by failure of the Contractor to complete the services or make delivery within the specified time. The costs for liquidated damages shall not be construed as a penalty on the Contractor.

**9. TERMINATION**

**A. Termination for Default:**

The County may, by written notice to the Contractor terminate this contract for default in whole or in part (delivery orders, if applicable) if the Contractor fails to:

1. Provide services that comply with the scope of work/services herein or fails to meet the County's performance standards
2. Perform the services within the time specified in this contract or any extension.
3. Make progress so as to endanger performance of this contract
4. Perform any of the other provisions of this contract.

Prior to termination for default, the County shall provide adequate written notice to the Contractor through the Manager, Procurement Division, affording the opportunity to cure the deficiencies or to submit a specific plan to resolve the deficiencies within ten (10) calendar days (or the period specified in the notice) after receipt of the notice. Failure to adequately cure the deficiency shall result in termination action. Such termination may also result in suspension or debarment of the Contractor in accordance with the County's Procurement Ordinance. The Contractor and its sureties (if any) shall be liable for any damage to the County resulting from the Contractor's default of the contract. This liability includes any increased costs incurred by the County in completing contract performance.

In the event of termination by the County for any cause, the Contractor shall have, in no event, any claim against the County for lost profits or compensation for lost opportunities. After a receipt of a Termination Notice and except as otherwise directed by the County the Contractor shall:

1. Stop work on the date and to the extent specified.
2. Terminate and settle all orders and subcontracts relating to the performance of the terminated work
3. Transfer all work in process, completed work, and other materials related to the terminated work as directed by the County.
4. Continue and complete all parts of that work that have not been terminated.

If the Contractor's failure to perform the contract arises from causes beyond the control and without the fault or negligence of the Contractor the contract shall not be terminated for default. Examples of such causes include (1) acts of God or the public enemy, (2) acts of a government in its sovereign capacity, (3) fires, (4) floods, (5) epidemics, (6) strikes and (7) unusually severe weather.

**B. Termination for Convenience:**

The County, by written notice, may terminate this contract, in whole or in part, when it is in the County's interest. If this contract is terminated, the County shall be liable only for services rendered and accepted. The County Notice of Termination shall provide the Contractor thirty (30) calendar days prior notice before it becomes effective. **A termination for convenience may apply to individual delivery orders, purchase orders or to the contract in its entirety.**

**10. COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH**

Any good delivered under a contract resulting from this bid shall be accompanied by a Material Safety Data Sheet (MSDS). The MSDS shall include the following information:

- A. The chemical name and the common name of the toxic substance.
- B. The hazards or other risks in the use of the toxic substance, including:
  - 1. The potential for fire, explosion, corrosiveness and reactivity;
  - 2. The known acute and chronic health effects of risks from exposure, including the medical conditions which are generally recognized as being aggravated by the exposure to the toxic substance; and
  - 3. The primary route of entry and symptoms of over exposure.
- C. The proper precautions, handling practices, necessary personal protective equipment and other safety precautions in the use of or exposure to the toxic substances, including appropriate emergency treatment in case of over exposure.
- D. The emergency procedure for spills, fire, disposal and first aid.
- E. A description in lay terms of the known specific potential health risks posed by the toxic substance intended to alert any person reading this information.
- F. The year and month, if available, that the information was compiled and the name, address and emergency telephone number of the manufacturer responsible for preparing the information.

**11. SAFETY REGULATIONS**

Equipment shall meet all State and Federal safety regulations.

**12. CODES AND REGULATIONS**

The Contractor shall strictly comply with all Federal, State and local codes and regulations.

**13. PAYMENT**

Partial payments for the value of services rendered and accepted may be requested by the submission of a properly executed invoice, with supporting documents if required. Payment shall be made in accordance with Florida Statute 218, Local Government Prompt Payment Act. Payment for accepted services shall be accomplished by submission of an invoice, in duplicate, to:

Orange County Utilities Department  
8100 Presidents Drive  
Orlando Florida

In the event additional County Departments or other public entities utilize this contract, invoices are to be sent directly to the Department or entity placing the order.

**14. DEBRIS**

Contractor shall be responsible for the prompt removal of all debris which is a result of this contractual service.

**15. SAFETY AND PROTECTION OF PROPERTY**

The Contractor shall at all times:

- A. Initiate, maintain and supervise all safety precautions and programs in connection with its services or performance of its operations under this contract.
- B. Take all reasonable precautions to prevent injury to employees, including County employees and all other persons affected by their operations.
- C. Take all reasonable precautions to prevent damage or loss to property of Orange County, or of other Contractors, consultants or agencies and shall be held responsible for replacing or repairing any such loss or damage.
- D. Comply with all ordinances, rules, regulations, standards and lawful orders from authority bearing on the safety of persons or property or their protection from damage, injury or loss. This includes but is not limited to:

- Occupational Safety and Health Act (OSHA)
- National Institute for Occupational Safety & Health (NIOSH)
- National Fire Protection Association (NFPA)
- American Society of Heating, Refrigeration & Air-Conditioning Engineers (ASHRAE)

E. The Contractor shall also comply with the guidelines set forth in the Orange County Safety & Health Manual. The manual can be accessed online at the address listed below:

<http://www.orangecountyfl.net/VendorServices/OrangeCountySafetyandHealthManual.aspx>

## 16. **INSURANCE REQUIREMENTS**

Vendor/Contractor agrees to maintain on a primary basis and at its sole expense, at all times throughout the duration of this contract the following types of insurance coverage with limits and on forms (including endorsements) as described herein. These requirements, as well as the County's review or acceptance of insurance maintained by Vendor/Contractor is not intended to and shall not in any manner limit or qualify the liabilities assumed by Vendor/Contractor under this contract. Vendor/Contractor is required to maintain any coverage required by federal and state workers' compensation or financial responsibility laws including but not limited to Chapter 324 and 440, Florida Statutes, as may be amended from time to time.

The Vendor/Contractor shall require and ensure that each of its sub-Vendors/sub-Contractors providing services hereunder (if any) procures and maintains until the completion of their respective services, insurance of the types and to the limits specified herein.

Insurance carriers providing coverage required herein must be licensed to conduct business in the State of Florida and must possess a current A.M. Best's Financial Strength Rating of A- Class VIII or better.

*(Note: State licenses can be checked via [www.floir.com/companysearch/](http://www.floir.com/companysearch/) and A.M. Best Ratings are available at [www.ambest.com](http://www.ambest.com))*

Required Coverage:

- Commercial General Liability - The Vendor/Contractor shall maintain coverage issued on the most recent version of the ISO form as filed for use in Florida or its equivalent, with a limit of liability of not less than \$1,000,000 per occurrence. Vendor/Contractor further agrees coverage shall not contain any endorsement(s) excluding or limiting Product/Completed Operations, Contractual Liability, or Separation of Insureds. The General Aggregate limit shall either apply separately to this contract or shall be at least twice the required occurrence limit.

Required Endorsements:

Additional Insured- CG 20 26 or CG 20 10/CG 20 37 or their equivalents.  
Note: CG 20 10 must be accompanied by CG 20 37 to include products/completed operations

Waiver of Transfer of Rights of Recovery- CG 24 04 or its equivalent.  
Note: If blanket endorsements are being submitted please include the entire endorsement and the applicable policy number.

Business Automobile Liability - The Vendor/Contractor shall maintain coverage for all owned; non-owned and hired vehicles issued on the most recent version of the ISO form as filed for use in Florida or its equivalent, with limits of not less than \$1,000,000 (one million dollars) per accident. In the event the Vendor/Contractor does not own automobiles the Vendor/Contractor shall maintain coverage for hired and non-owned auto liability, which may be satisfied by way of endorsement to the Commercial General Liability policy or separate Business Auto Liability policy.

Workers' Compensation - The Vendor/Contractor shall maintain coverage for its employees with statutory workers' compensation limits, and no less than \$500,000 each incident of bodily injury or disease for Employers' Liability. Elective exemptions as defined in Florida Statute 440 will be considered on a case-by-case basis. Any Vendor/Contractor using an employee leasing company shall complete the Leased Employee Affidavit.

Required Endorsements:

Waiver of Subrogation- WC 00 03 13 or its equivalent

Transporter's Pollution Liability – The vendor shall provide coverage for pollution liability and clean-up costs arising out of its operations hereunder. The limits shall be not less than \$1,000,000.00 per occurrence, Combined Single Limits (CSL) or its equivalent. The General Aggregate limit shall either apply separately to this contract or shall be at least twice the required occurrence limit.

When a self-insured retention or deductible exceeds \$100,000 the COUNTY reserves the right to request a copy of Vendor/Contractor most recent annual report or audited financial statement. For policies written on a "Claims-Made" basis the Vendor/Contractor agrees to maintain a retroactive date prior to or equal to the effective date of this contract. In the event the policy is canceled, non-renewed, switched to occurrence form, or any other event which triggers the right to purchase a Supplemental Extended Reporting Period (SERP) during the life of this contract the Vendor/Contractor agrees to purchase the SERP with a minimum reporting period of not less than two years. Purchase of the SERP shall not relieve the Vendor/Contractor of the obligation to provide replacement coverage.

**By entering into this contract Vendor/Contractor agrees to provide a waiver of subrogation or a waiver of transfer of rights of recovery, in favor of the County for the workers' compensation and general liability policies as required herein. When required by the insurer or should a policy condition not permit the Vendor/Contractor to enter into a pre-loss agreement to waive subrogation without an endorsement, then Vendor/Contractor agrees to notify the insurer and request the policy be endorsed with a Waiver of Subrogation or a Waiver of Transfer of Rights of Recovery Against Others endorsement.**

Prior to execution and commencement of any operations/services provided under this contract the Vendor/Contractor shall provide the COUNTY with current certificates of insurance evidencing all required coverage. In addition to the certificate(s) of insurance the Vendor/Contractor shall also provide endorsements for each policy as specified above. All specific policy endorsements shall be in the name of the Orange County Board of County Commissioners.

For continuing service contracts renewal certificates shall be submitted immediately upon request by either the COUNTY or the COUNTY's contracted certificate compliance management firm. The certificates shall clearly indicate that the Vendor/Contractor has obtained insurance of the type, amount and classification as required for strict compliance with this insurance section. Vendor/Contractor shall notify the COUNTY not less than thirty (30) business days (ten business days for non-payment of premium) of any material change in or cancellation/non-renewal of insurance coverage. The Vendor/Contractor shall provide evidence of replacement coverage to maintain compliance with the aforementioned insurance requirements to the COUNTY or its certificate management representative five (5) business days prior to the effective date of the replacement policy (ies).

The certificate holder shall read:

Orange County Board of County Commissioners  
c/o Procurement Division  
400 E. South Street, 2<sup>nd</sup> Floor  
Orlando, Florida 32801

**17. CONTRACT TERM/RENEWAL**

A. The contract resulting from this Invitation for Bids shall commence effective upon issuance of a term contract by the County and extend for a period of one (1) year. The contract may be renewed for four (4) additional one (1) year periods, upon mutual agreement of both parties. If any such renewal results in changes in the terms and conditions, such changes shall be reduced to writing as an amendment to this contract and such amendment shall be executed by both parties. Renewal of the contract shall be subject to appropriation of funds by the Board of County Commissioners.

- B. The initiating County department(s) shall issue delivery/purchase orders against the term contract on an “as needed” basis.
- C. If the quantity of a unit priced item in this contract is an estimated quantity and the actual quantities ordered are more than 50% above the estimated quantity, the County shall enter into negotiations with the Contractor for a lower unit price which shall be incorporated into the contract. Failure of the Contractor to agree to a reduced unit price may result in the termination of the contract and re-solicitation of the requirement.
- D. Any order issued during the effective period of this contract, but not completed within that period, shall be completed by the Contractor within the time specified in the order. The contract shall govern the Contractor’s and the County’s rights and obligations with respect to that order to the extent as if the order were completed during the contract performance period.

**18. PRICE ESCALATION/DE-ESCALATION (CPI)**

The County may allow a price escalation provision within this award.

The original contract prices shall be firm for the entirety of the initial (one year) contract period. A price escalation/de-escalation will be considered at the time of contract renewal and at 1-year intervals thereafter, provided the Contractor notifies the County, in writing, of the pending price escalation/de-escalation a minimum of sixty (60) days prior to the contract renewal date. Price adjustments shall be based on the latest version of the Consumers Price Index (CPI-U) for All Urban Consumers, All Items, U.S. City Average, non-seasonal, as published by the U.S. Department of Labor, Bureau of Labor Statistics. This information is available at [www.bls.gov](http://www.bls.gov).

Price adjustment shall be calculated by applying the simple percentage model to the CPI data. This method is defined as subtracting the base period index value (at the time of initial award) from the index value at time of calculation (latest version of the CPI published as of the date of request for price adjustment), divided by the base period index value to identify percentage of change, then multiplying the percentage of change by 100 to identify the percentage change. Formula is as follows:

$$\text{Current Index} - \text{Base Index} / \text{Base Index} = \% \text{ of Change}$$

$$\% \text{ of Change} \times 100 = \text{Percentage Change}$$

**CPI-U Calculation Example:**

CPI for current period	232.945
Less CPI for base period	229.815
Equals index point change	3.130

Divided by base period CPI	229.815
Equals	0.0136
Result multiplied by 100	0.0136 x 100
Equals percent change	1.4%

A price increase may be requested only at each time interval specified above, using the methodology outlined in this section. To request a price increase, Contractor shall submit a letter stating the percentage amount of the requested increase and adjusted price to the Orange County Procurement Division. The letter shall include the complete calculation utilizing the formula above, and a copy of the CPI-U index table used in the calculation. The maximum allowable increase shall not exceed 4%, unless authorized by the Manager, Procurement Division. If approved, the price adjustment shall become effective on the contract renewal date. All price adjustments must be accepted by the Manager, Procurement Division and shall be memorialized by written amendment to this contract. No retroactive contract price adjustments will be allowed.

Should the CPI-U for All Urban Consumers, All Items, U.S City Average, as published by the U.S. Department of Labor, Bureau of Labor Statistics decrease during the term of the contract, or any renewals, the Contractor shall notify the Orange County Procurement Division of price decreases in the method outlined above. If approved, the price adjustment shall become effective on the contract renewal date. If the Contractor fails to pass the decrease on to the County, the County reserves the right to place the Contractor in default, cancel the award, and remove the Contractor from the County Vendor List for a period of time deemed suitable by the County. In the event of this occurrence, the County further reserves the right to utilize any options as stated herein.

**19. BID PREFERENCE**

In accordance with the Minority Women Owned Business Enterprise (MWBE) Ordinance, award of a contract resulting from this Invitation for Bids may be made to the lowest responsive and responsible Orange County certified MWBE bidder provided that the bid does not exceed the overall lowest responsive and responsible bidder by the following percentages for the bid amounts listed:

- A. 8% - Bids Up To \$100,000**
- B. 7% - Bids Greater Than \$100,000 to \$500,000**
- C. 6% - Bids Greater Than \$500,000 to \$750,000**
- D. 5% - Bids Greater Than \$750,000 to \$2,000,000**
- E. 4% - Bids Greater Than \$2,000,000 to \$5,000,000**
- F. 3% - Bids Greater Than \$5,000,000**

In accordance with the Service Disabled Veteran Business Ordinance, award of a contract resulting from this Invitation for Bids may be made to the lowest responsive and responsible registered Service Disabled Veteran bidder provided that the bid does not exceed the overall lowest responsive and responsible bidder by the following percentages for the bid amounts listed:



- A. 8% - Bids Up To \$100,000
- B. 7% - Bids Greater Than \$100,000 to \$500,000
- C. 6% - Bids Greater Than \$500,000 to \$750,000
- D. 5% - Bids Greater Than \$750,000 to \$2,000,000
- E. 4% - Bids Greater Than \$2,000,000 to \$5,000,000
- F. 3% - Bids Greater Than \$5,000,000

In the event of a tie between an M/WBE and an SDV with all else being equal, the award shall be made to the firm with the lowest business net worth.

## 20. CHANGES - SERVICE CONTRACTS

The County may at any time by issuance of an executed change order make changes within the general scope of the contract in any of the following areas:

- A. Description of services to be performed.
- B. Time of Performance (i.e., hours of the day, days of the week, etc.).
- C. Place of performance of the services.

If additional work or other changes are required in the areas described above, a price proposal shall be required from the Contractor. Upon negotiation of the proposal, execution and receipt of the change order, the Contractor shall commence performance of the work as specified.

The Contractor shall not commence the performance of additional work or other changes not covered by this contract without an executed change order issued by the Procurement Division. If the Contractor performs additional work beyond the specific requirements of this contract without an executed change order, it shall be at their own risk. The County assumes no responsibility for any additional costs for work not specifically authorized by an executed change order.

## 21. ATTACHMENTS

The following attachment(s) is/are attached to, and made a part of this Invitation for Bids:

- A. Biosolids Management System Manual
- B. Lab Analysis Northwest Facility
- C. Lab Analysis Eastern Facility
- D. Agreement for the Treatment and Composting of Domestic Wastewater Residuals
- E. Trailer Inspection Form

**22. CONDITIONS FOR EMERGENCY/HURRICANE OR DISASTER - TERM CONTRACTS**

It is hereby made a part of this Invitation for Bids that before, during and after a public emergency, disaster, hurricane, flood, or other acts of God that Orange County shall require a "first priority" basis for services. It is vital and imperative that the majority of citizens are protected from any emergency situation which threatens public health and safety, as determined by the County. Contractor agrees to provide services to the County or other governmental entities as opposed to a private citizen, on a first priority basis. The County expects to pay contractual prices for all services required during an emergency situation. Contractor shall furnish a twenty-four (24) hour phone number in the event of such an emergency.

**23. REFERENCES**

A contact person shall be someone who has personal knowledge of the Bidder's performance for the specific requirement listed. Contact person shall have been informed that they are being used as a reference and that the County may be calling them. More than one person can be listed but all shall have knowledge of the project. The reference shall be the owner or a representative of the owner. Contractors who provided services under the referenced project (contract) shall not be accepted as references. **DO NOT** list principals or officers who shall not be able to answer specific questions regarding the project. Failure of references listed to respond to the County's inquiries may negatively impact the responsibility of the Bidder.

**24. REQUIREMENTS CONTRACT**

This is a Requirements Contract and the County's intent is to order from the Contractor all of the services specified in the contract's price schedule that are required to be purchased by the County. If the County urgently requires delivery of services before the earliest date that delivery may be required under this contract, and if the Contractor will not accept an order providing for accelerated delivery, the County may acquire the services from another source.

The County's requirements in this contract are estimated and there is no commitment by the County to order any specified amount. If the estimated quantities are not achieved, this shall not be the basis for an equitable adjustment.

**If the Manager, Procurement Division determines that the Contractor's performance is less than satisfactory, the County may order the services from other sources until the deficient performance has been cured or the contract terminated.**

## SCOPE OF SERVICES

### TECHNICAL SPECIFICATIONS

#### 1. SCOPE OF SERVICES

- A. The Contractor shall provide all labor, processes, materials and equipment necessary for removing, transporting, processing and disposing of non-digested dewatered biosolids produced at:

Eastern Water Reclamation Facility  
1621 S. Alafaya Trail  
Orlando, Florida 32828  
(407) 249-6249

And

Northwest Water Reclamation Facility  
701 W. Mc McCormick Rd.  
Apopka, Florida 32703  
(407) 884-7331

to a Florida Department of Environmental Protection (FDEP) approved disposal site provided by the Contractor in accordance with FDEP regulations, as provided in qualifications of bidders.

- B. The Contractor shall provide leak proof trailers with water resistant covers to prevent rain water from access to the biosolids filled trailers at the facility, to store and transport the dewatered biosolids per the estimated daily quantities referenced in Item 2.0 of the Technical Specifications. The biosolids will be loaded into the Contractor's trailers by County personnel as required by facility operations.
- C. The Contractor shall agree to have County supplied GPS units installed upon request by the County.
- D. The Contractor shall remove the loaded trailers from the wastewater treatment plant site and transport them to a FDEP approved site.
- E. The County is a member agency of the National Biosolids Partnership (NBP) and has voluntarily committed to following its Code of Good Practice, and to operating under the rules of the Environmental Management System for Biosolids Management. The Contractor shall comply with the contractor responsibilities listed or referred to in the Biosolids Management System (BMS) Manual provided in attachment A of this specification. Contractor shall fully cooperate with the County in its efforts in implementing the required procedures, including informing the County of regulatory inspections, public relations and public participation, maintaining a record of customer complaints/inquiries as approved by the County, resolving citizen's complaints and submitting to internal and external audits as required by the NBP. Additional information about the NBP can be obtained from [www.biosolids.org](http://www.biosolids.org).

The Contractors' required responsibilities also include, but are not limited to, the following:

- Comply with all applicable legal and other requirements
- Prepare and maintain an emergency preparedness and response plan
- Properly train all personnel and/or subcontractor personnel
- Communicate with interested parties
- Maintain control of applicable documents and records
- Maintain and provide to the County all applicable data and performance measures as requested
- Participate in corrective and preventive action plans

F. The Contractor shall be responsible for customary expenses such as maintaining licenses, certifications; attending contract related meetings, etc.

## **2. ESTIMATION OF QUANTITIES AND CHARACTERISTICS OF BIOSOLIDS**

A. The biosolids are the treatment product of an activated sludge process. Both the Eastern Water Reclamation Facility and the Northwest Water Reclamation Facility sludges are unstabilized biosolids.

B. Orange County does not guarantee or give warranty as to the chemical composition of this material. It is possible that the nutrient and chemical components of the Biosolids will have lower or higher concentrations than that represented in the Typical Biosolids Analysis provided in attachments B and C of this specification.

C. Orange County does not warrant or represent that the treated Biosolids produced by the plant can or should be used for any particular purpose.

D. The estimated average biosolids cake production at the Eastern Water Reclamation Facility is:

38,000 wet tons per year.

The estimated average biosolids cake production at the Northwest Water Reclamation Facility is:

12,000 wet tons per year.

However, Orange County makes no guarantee as to the minimum or maximum volume of biosolids to be produced. These volumes are provided for informational purposes only.

E. Actual daily requirements, volumes and transport schedules will be determined by the Eastern and Northwest Water Reclamation Facility Plant Manager or his designee to meet the operational needs of each facility.

### 3. REGULATORY ISSUES

- A. Contractor agrees to comply with all applicable laws, regulations or ordinances imposed by all applicable federal state, regional and local agencies, including but not limited to Chapter 62-640, Florida Administrative Code and Chapter 40, Code of Federal Regulations, Part 503.

The Contractor shall abide by all requirements under Chapter 62-640, F.A.C. and 40 CFR 503 for the type of disposal or land application proposed and provide the County with the required reports and information to submit to the regulatory agencies.

- B. Contractor shall accept all responsibility for disposal of the biosolids in accordance with Rule 62-640.300(3), Florida Administrative Code.
- C. The biosolids shall be disposed of only at Florida Department of Environmental Protection approved site(s). **The County and the Contractor shall execute an AGREEMENT FOR THE TREATMENT AND COMPOSTING OF DOMESTIC WASTEWATER RESIDUALS, provided in attachment D of this specification, for each Biosolids Treatment Facility where the County's biosolids are transported to.**
- D. The Contractor shall abide by any pronouncement, order, regulation, permit, license, restriction, injunction, moratorium or denial of permission to operate the plant imposed or issued by federal state or local agencies or regulatory groups or by any court of competent jurisdiction.
- E. All governmental approvals or licenses required by these Technical Specifications shall be applicable to current law as that may be amended in the future. Any failure to obtain, renew or maintain an approval or license shall be a substantive breach of the contract and shall be cause for immediate termination at the sole option of Orange County.

### 4. RESIDUALS REMOVAL, HAULING, AND DISPOSAL

- A. The Contractor shall remove the specified quantities of biosolids to ensure proper operation of treatment facility. The Contractor will be advised by the Orange County Eastern and Northwest Water Reclamation Facility when insufficient disposal occurs. If the Contractor does not have sites of adequate quantity or quality to allow continuous removal and disposal during inclement weather, the Contractor shall provide alternate means of biosolids storage to ensure that biosolids removal at the Orange County facility can continue, at no additional cost to Orange County. Any fees associated with alternate disposal method shall be the sole responsibility of the Contractor.
- B. The normal operating schedule for residuals removal shall be between the hours of 6:30 AM. and 6:00 PM., Sunday through Saturday, unless otherwise specified by Orange County – Eastern and Northwest Water Reclamation Facility.

- C. The Contractor's mode of conveyance and transport shall be acceptable to Orange County Utilities. The Contractor shall be responsible for any spills, odor prevention, dust control, conveyance malfunctions, transportation or disposal problems which occur during transport. Trailers must be completely covered so as not to allow rain water to accumulate inside the biosolids filled trailers. These covers shall be secured and run the entire length of the trailer completely covering all trailer edges and must be acceptable by the County. Each trailer must be checked in and out by County staff and the contractor's driver at each facility with no exception, refer to the OCU Biosolids Trailer Inspection Form provided in attachment E of this specification. All trailers and tractor exteriors shall be clear of any biosolids prior to exiting the facility.
  
- D. Any spillage, accidental or otherwise, which occurs off or on an Orange County site shall be the Contractor's responsibility to completely remove and sanitize, including appropriate regulatory notification.

- F. If citizen complaints during the removal and disposal of the residuals on any given day become significant as determined by Orange County, Orange County reserves the right to suspend the Contractor's operations and to direct the Contractor to perform corrective action, including but not limited to, the application of an odor retardant at no additional cost to Orange County.
- G. The Contractor acknowledges full understanding of the extent and character of the services required and the conditions surrounding the performance thereof. Orange County will not be responsible for any alleged misunderstanding of the services to be furnished or completed, or any misunderstanding of the conditions surrounding the performance thereof.
- H. The Contractor shall provide adequate number of trailers at each location. It is estimated that a minimum of ten (10) available trailers, of which seven (7) shall be empty, will be required daily at EWRF. It is estimated a minimum of four (4) available trailers, of which three (3) shall be empty, will be required at NWRf. Each trailer shall have a minimum holding capacity of 35 cubic yards. Each trailer shall be cleaned with fresh water removing all residuals before being delivered to each location. Trailers shall be staged at each facility and be fully covered with a water repellent material. No filled trailer can be left on site for more than 48 hours and staged trailers shall meet daily production capacity. All trailers provided shall be compatible with existing Orange County yard dog tractors for loading and staging activities. The Orange County yard dog tractor at EWRF is a Trailer Jockey by Capacity of Texas Model TJ7000 built 08-96 with a wheel base of 122 inches and rated at 42,000 lbs. The Orange County yard dog tractor at NWRf is a Ford model L9000 with a wheel base of 131 inches and rated at 33,000 lbs.
- I. All vehicles used by the Contractor shall clearly indicate the name of the company, vehicle number and a contact telephone number of the company office. Offsite processing or storage facilities shall be posted with signs and contact information. Any complaints received by the contractor shall be recorded and summarized and reported to the County every month.

**5. TIME IS OF THE ESSENCE**

The Contractor acknowledges that time is of the essence to complete the work specified herein. The work shall be prosecuted regularly, diligently and uninterrupted, at such a rate of progress as will ensure the proper operation of the wastewater treatment plant. If Contractor fails to pick up the required quantity of biosolids as scheduled, the County may, at Contractor's expense use an alternative site or method.

**6. INSPECTION**

Orange County reserves the right to inspect and reject the tractor and trailers to be used by the Contractor for hauling and disposing of the biosolids specified herein.



**BID RESPONSE FORM  
IFB #Y15-1003-PD**

The Contractor shall provide all labor and other resources necessary to provide the supplies, equipment and services in strict accordance with the specifications defined in this solicitation for the amounts specified in this Bid Response Form, inclusive of overhead, profit and any other costs.

<b>ITEM NO.</b>	<b>DESCRIPTION</b>	<b>PRICE PER TON</b>	<b>X</b>	<b>ESTIMATED ANNUAL WET TONS</b>	<b>=</b>	<b>TOTAL BID</b>
1.	Biosolids Removal, Transportation, processing and Disposal at Eastern Water Reclamation Facility	\$_____	X	38,000	=	\$_____
2.	Biosolids Removal, Transportation, processing and Disposal at Northwest Water Reclamation Facility	\$_____	X	12,000	=	\$_____
<b>TOTAL BID ITEMS 1 AND 2</b>						<b>\$_____</b>

\_\_\_\_\_  
Company Name

**IMPORTANT NOTE: When completing your bid, do not attach any forms which may contain terms and conditions that conflict with those listed in the County's bid documents(s). Inclusion of additional terms and conditions such as those which may be on your company's standard forms shall result in your bid being declared non-responsive as these changes will be considered a counteroffer to the County's bid.**

Performance shall be not later than one (1) calendar days After Receipt of Order (ARO) per Special Terms and Conditions.

Inquiries regarding this Invitation for Bids may be directed to Perry Davis, Senior Purchasing Agent, at [Perry.Davis@ocfl.net](mailto:Perry.Davis@ocfl.net)

**Bid Response Documents - The following documents constitute your bid:**

- A. Bid Response Form, Authorized Signatories/Negotiators, Drug-Free Workplace, Schedule of Sub-Contracting, Conflict/Non-Conflict of Interest Form, E-Verification Certification, and current W9, Relationship Disclosure Form and Orange County Specific Project Expenditure Report. **Please make sure forms are fully executed where required.**
- B. Qualifications of Bidders information, per Special Terms and Conditions.
- C. Certificate of Competency and License, per Special Terms and Conditions.
- D. Completed attached reference documentation.

**THE FOLLOWING SECTION MUST BE COMPLETED BY ALL BIDDERS:**

Company Name: \_\_\_\_\_

NOTE: COMPANY NAME MUST MATCH LEGAL NAME ASSIGNED TO TIN NUMBER. CURRENT W9 MUST BE SUBMITTED WITH BID.

TIN#: \_\_\_\_\_ D-U-N-S® # \_\_\_\_\_

\_\_\_\_\_  
(Street No. or P.O. Box Number) (Street Name) (City)

\_\_\_\_\_  
(County) (State) (Zip Code)

Contact Person: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

**EMERGENCY CONTACT**

Emergency Contact Person: \_\_\_\_\_

Telephone Number: \_\_\_\_\_ Cell Phone Number: \_\_\_\_\_

Residence Telephone Number: \_\_\_\_\_ Email: \_\_\_\_\_

**ACKNOWLEDGEMENT OF ADDENDA**

The Bidder shall acknowledge receipt of any addenda issued to this solicitation by completing the blocks below or by completion of the applicable information on the addendum and returning it not later than the date and time for receipt of the bid. Failure to acknowledge an addendum that has a material impact on this solicitation may negatively impact the responsiveness of your bid. Material impacts include but are not limited to changes to scope of work/services, delivery time, performance period, quantities, bonds, letters of credit, insurance, or qualifications.

Addendum No. \_\_\_\_\_, Date \_\_\_\_\_ Addendum No. \_\_\_\_\_, Date \_\_\_\_\_

Addendum No. \_\_\_\_\_, Date \_\_\_\_\_ Addendum No. \_\_\_\_\_, Date \_\_\_\_\_

**AUTHORIZED SIGNATORIES/NEGOTIATORS**

The Bidder represents that the following **principals** are authorized to sign bids, negotiate and/or sign contracts and related documents to which the bidder will be duly bound. Principal is defined as an employee, officer or other technical or professional in a position capable of substantially influencing the development or outcome of an activity required to perform the covered transaction.

Name	Title	Telephone Number/Email

_____	_____
(Signature)	(Date)
_____	
(Title)	
_____	
(Name of Business)	

The Bidder shall complete and submit the following information with the bid:

**Type of Organization**

Sole Proprietorship     Partnership     Non-Profit  
 Joint Venture     Corporation

**State of Incorporation:** \_\_\_\_\_

Principal Place of Business (Florida Statute Chapter 607): \_\_\_\_\_  
City/County/State

**THE PRINCIPAL PLACE OF BUSINESS SHALL BE THE ADDRESS OF THE BIDDER'S PRINCIPAL OFFICE AS IDENTIFIED BY THE FLORIDA DIVISION OF CORPORATIONS.**

Federal I.D. number is \_\_\_\_\_

## REFERENCES

List three (3) customers during the past ten (10) years for which you provided services similar to those specified in the solicitation in the spaces provided below. Provide the owner's name, contact person, address, email address, telephone number, and date services were performed, as described.

1. Company Name: \_\_\_\_\_

Owner's Name: \_\_\_\_\_

Description of services provided: \_\_\_\_\_

\_\_\_\_\_

Contract Amount: \_\_\_\_\_

Start and End Date of Contract: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

2. Company Name: \_\_\_\_\_

Owner's Name: \_\_\_\_\_

Description of services provided: \_\_\_\_\_

\_\_\_\_\_

Contract Amount: \_\_\_\_\_

Start and End Date of Contract: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

\_\_\_\_\_

Email Address: \_\_\_\_\_

3. Company Name: \_\_\_\_\_

Owner's Name: \_\_\_\_\_

Description of services provided: \_\_\_\_\_

\_\_\_\_\_

Contract Amount: \_\_\_\_\_

Start and End Date of  
Contract: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

## DRUG-FREE WORKPLACE FORM

The undersigned Bidder, in accordance with Florida Statute 287.087 hereby certifies that \_\_\_\_\_ does:

Name of Business

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, employee assistance programs and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in Paragraph 1.
4. In the statement specified in Paragraph 1, notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Florida Statute 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of Paragraphs 1 thru 5.

As the person authorized to sign this statement, I certify that this firm complies fully with above requirements.

\_\_\_\_\_  
Bidder's Signature

\_\_\_\_\_  
Date

**SCHEDULE OF SUBCONTRACTING**

**IFB NO. Y15-        -**

As specified in the General Terms and Conditions and the Bid Preference Clause in the Special Terms and Conditions, bidders are to present the details of subcontractor participation.

<b>Name Of Subcontractor</b>	<b>Address</b>	<b>Type of Work to be Performed</b>	<b>Percent of Contract Amount to be Subcontracted</b>

Company Name: \_\_\_\_\_

**CONFLICT/NON-CONFLICT OF INTEREST STATEMENT**

**CHECK ONE**

[ ] To the best of our knowledge, the undersigned bidder has no potential conflict of interest due to any other clients, contracts, or property interest for this project.

**OR**

[ ] The undersigned bidder, by attachment to this form, submits information which may be a potential conflict of interest due to other clients, contracts, or property interest for this project.

**LITIGATION STATEMENT**

**CHECK ONE**

[ ] The undersigned bidder has had no litigation and/or judgments entered against it by any local, state or federal entity and has had no litigation and/or judgments entered against such entities during the past ten (10) years.

[ ] The undersigned bidder, **BY ATTACHMENT TO THIS FORM**, submits a summary and disposition of individual cases of litigation and/or judgments entered by or against any local, state or federal entity, by any state or federal court, during the past ten (10) years.

\_\_\_\_\_  
COMPANY NAME

\_\_\_\_\_  
AUTHORIZED SIGNATURE

\_\_\_\_\_  
NAME (PRINT OR TYPE)

\_\_\_\_\_  
TITLE

Failure to check the appropriate blocks above may result in disqualification of your bid. Likewise, failure to provide documentation of a possible conflict of interest, or a summary of past litigation and/or judgments, may result in disqualification of your bid.



## E VERIFICATION CERTIFICATION

Contract No.Y15-        -

I hereby certify that I will utilize the U.S. Department of Homeland Security's E-Verify system in accordance with the terms governing the use of the system to confirm the employment eligibility of the individuals classified below. In accordance with s. 837.06, Florida Statutes, I understand and acknowledge that whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his or her official duties shall be guilty of a misdemeanor in the second degree, punishable as provided in s. 775.082 or s. 775.083, Florida statutes.

All persons, including subcontractors and their workforce, who will perform work under **Contract No.Y15-**        -        , **Title**, within the state of Florida.

NAME OF CONTRACTOR: \_\_\_\_\_

ADDRESS OF CONTRACTOR: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

AUTHORIZED SIGNATURE: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

**RELATIONSHIP DISCLOSURE FORM  
FOR USE WITH PROCUREMENT ITEMS, EXCEPT THOSE WHERE THE COUNTY  
IS THE PRINCIPAL OR PRIMARY PROPOSER**

For procurement items that will come before the Board of County Commissioners for final approval, this form shall be completed by the Bidder and shall be submitted to the Procurement Division by the Bidder.

In the event any information provided on this form should change, the Bidder must file an amended form on or before the date the item is considered by the appropriate board or body.

**Part I**

**INFORMATION ON BIDDER:**

Legal Name of Bidder:

---

Business Address (Street/P.O. Box, City and Zip Code):

---

---

Business Phone: (     ) \_\_\_\_\_

Facsimile: (     ) \_\_\_\_\_

**INFORMATION ON BIDDER'S AUTHORIZED AGENT, IF APPLICABLE:  
(Agent Authorization Form also required to be attached)**

Name of Bidder's Authorized Agent:

---

Business Address (Street/P.O. Box, City and Zip Code):

---

---

Business Phone: (     ) \_\_\_\_\_

Facsimile: (     ) \_\_\_\_\_

**Part II**

IS THE BIDDER A RELATIVE OF THE MAYOR OR ANY MEMBER OF THE BCC?

\_\_\_ **YES** \_\_\_ **NO**

IS THE MAYOR OR ANY MEMBER OF THE BCC THE BIDDER'S EMPLOYEE?

\_\_\_ **YES** \_\_\_ **NO**

IS THE BIDDER OR ANY PERSON WITH A DIRECT BENEFICIAL INTEREST IN THE OUTCOME OF THIS MATTER A BUSINESS ASSOCIATE OF THE MAYOR OR ANY MEMBER OF THE BCC?

\_\_\_ **YES** \_\_\_ **NO**

If you responded "YES" to any of the above questions, please state with whom and explain the relationship.

---

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(Use additional sheets of paper if necessary)

**Part III**

**ORIGINAL SIGNATURE AND NOTARIZATION REQUIRED**

I hereby certify that information provided in this relationship disclosure form is true and correct based on my knowledge and belief. If any of this information changes, I further acknowledge and agree to amend this relationship disclosure form prior to any meeting at which the above-referenced project is scheduled to be heard. In accordance with s. 837.06, Florida Statutes, I understand and acknowledge that whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his or her official duty shall be guilty of a misdemeanor in the second degree, punishable as provided in s. 775.082 or s. 775.083, Florida Statutes.

\_\_\_\_\_  
Signature of Bidder

\_\_\_\_\_  
Date

Printed Name and Title of Person completing this form:

\_\_\_\_\_  
STATE OF \_\_\_\_\_ :  
COUNTY OF \_\_\_\_\_ :

I certify that the foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_ by \_\_\_\_\_. He/she is personally known to me or has produced \_\_\_\_\_ as identification and did/did not take an oath.

Witness my hand and official seal in the county and state stated above on the \_\_\_\_\_ day of \_\_\_\_\_, in the year \_\_\_\_\_.

(Notary Seal)

\_\_\_\_\_  
Signature of Notary Public  
Notary Public for the State of \_\_\_\_\_  
My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Staff signature and date of receipt of form

\_\_\_\_\_  
Staff reviews as to form and does not attest to the accuracy or veracity of the information provided herein.

**FREQUENTLY ASKED QUESTIONS (FAQ)**  
**ABOUT THE**  
**RELATIONSHIP DISCLOSURE FORM**  
*Updated 6-28-11*

**WHAT IS THE RELATIONSHIP DISCLOSURE FORM?**

The Relationship Disclosure Form (form OC CE 2D and form OC CE 2P) is a form created pursuant to the County's Local Code of Ethics, codified at Article XIII of Chapter 2 of the Orange County Code, to ensure that all development-related items and procurement items presented to or filed with the County include information as to the relationship, if any, between the applicant and the County Mayor or any member of the Board of County Commissioners (BCC). The form will be a part of the backup information for the applicant's item.

**WHY ARE THERE TWO RELATIONSHIP DISCLOSURE FORMS?**

Form OC CE 2D is used only for development-related items, and form OC CE 2P is used only for procurement-related items. The applicant needs to complete and file the form that is applicable to his/her case.

**WHO NEEDS TO FILE THE RELATIONSHIP DISCLOSURE FORM?**

Form OC CE 2D should be completed and filed by the owner of record, contract purchaser, or authorized agent. Form OC CE 2P should be completed and filed by the bidder, offeror, quoter, or respondent, and, if applicable, their authorized agent. In all cases, the person completing the form must sign the form and warrant that the information provided on the form is true and correct.

**WHAT INFORMATION NEEDS TO BE DISCLOSED ON THE RELATIONSHIP DISCLOSURE FORM?**

The relationship disclosure form needs to disclose pertinent background information about the applicant and the relationship, if any, between, on the one hand, the applicant and, if applicable, any person involved with the item, and on the other hand, the Mayor or any member of the BCC.

In particular, the applicant needs to disclose whether any of the following relationships exist: (1) the applicant is a business associate of the Mayor or any member of the BCC; (2) any person involved with the approval of the item has a beneficial interest in the outcome of the matter *and* is a business associate of the Mayor or any member of the BCC; (3) the applicant is a relative of the Mayor or any member of the BCC; or (4) the Mayor or any member of the BCC is an employee of the applicant. (See Section 2-454, Orange County Code.)

**HOW ARE THE KEY RELEVANT TERMS DEFINED?**

Applicant means, for purposes of a development-related project, the owner, and, if applicable, the contract purchaser or owner's authorized agent. Applicant means, for purposes of a procurement item, the bidder, offeror, quoter, respondent, and, if applicable, the authorized agent of the bidder, offeror, quoter, or respondent.

Business associate means any person or entity engaged in or carrying on a business enterprise with a public officer, public employee, or candidate as a partner, joint venture, corporate shareholder where the shares of such corporation are not listed on any national or regional stock exchange, or co-owner of property. In addition, the term

includes any person or entity engaged in or carrying on a business enterprise, or otherwise engaging in common investment, with a public officer, public employee, or candidate as a partner, member, shareholder, owner, co-owner, joint venture partner, or other investor, whether directly or indirectly, whether through a Business Entity or through interlocking Parent Entities, Subsidiary Entities, or other business or investment scheme, structure, or venture of any nature. (See Section 112.312(4), Florida Statutes, and Section 2-452(b), Orange County Code.)

*Employee* means any person who receives remuneration from an employer for the performance of any work or service while engaged in any employment under any appointment or contract for hire or apprenticeship, express or implied, oral or written, whether lawfully or unlawfully employed, and includes, but is not limited to, aliens and minors. (See Section 440.02(15), Florida Statutes.)

*Relative* means an individual who is related to a public officer or employee as father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, brother-in-law, sister-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, great grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, person who is engaged to be married to the public officer or employee or who otherwise holds himself or herself out as or is generally known as the person whom the public officer or employee intends to marry or with whom the public officer or employee intends to form a household, or any other natural person having the same legal residence as the public officer or employee. (See Section 112.312(21), Florida Statutes.)

#### **DOES THE RELATIONSHIP DISCLOSURE FORM NEED TO BE UPDATED IF INFORMATION CHANGES?**

Yes. It remains a continuing obligation of the applicant to update this form whenever any of the information provided on the initial form changes.

#### **WHERE DO THE RELATIONSHIP DISCLOSURE FORM AND ANY SUBSEQUENT UPDATES NEED TO BE FILED?**

For a development-related item, the Relationship Disclosure Form and any update need to be filed with the County Department or County Division where the applicant filed the application. For a procurement item, the Relationship Disclosure Form and any update need to be filed with the Procurement Division.

#### **WHEN DO THE RELATIONSHIP DISCLOSURE FORM AND ANY UPDATES NEED TO BE FILED?**

In most cases, the initial form needs to be filed when the applicant files the initial development-related project application or initial procurement-related forms. However, with respect to a procurement item, a response to a bid will not be deemed unresponsive if this form is not included in the initial packet submitted to the Procurement Division.

If changes are made after the initial filing, the final, cumulative Relationship Disclosure Form needs to be filed with the appropriate County Department or County Division processing the application not less than seven (7) days prior to the scheduled BCC agenda date so that it may be incorporated into the BCC agenda packet. When the matter is a discussion agenda item or is the subject of a public hearing, and an update has not been made at least 7 days prior to BCC meeting date or is not included in the

BCC agenda packet, the applicant is obligated to verbally present such update to the BCC when the agenda item is heard or the public hearing is held. When the matter is a consent agenda item and an update has not been made at least 7 days prior to the BCC meeting or the update is not included in the BCC agenda packet, the item will be pulled from the consent agenda to be considered at a future meeting.

**WHO WILL REVIEW THE INFORMATION DISCLOSED ON THE RELATIONSHIP DISCLOSURE FORM AND ANY UPDATES?**

The information disclosed on this form and any updates will be a public record as defined by Chapter 119, Florida Statutes, and may therefore be inspected by any interested person. Also, the information will be made available to the Mayor and the BCC members. This form and any updates will accompany the information for the applicant's project or item.

However, for development-related items, if an applicant discloses the existence of one or more of the relationships described above and the matter would normally receive final consideration by the Concurrency Review Committee or the Development Review Committee, the matter will be directed to the BCC for final consideration and action following committee review.

**CONCLUSION:**

We hope you find this FAQ useful to your understanding of the Relationship Disclosure Form. Please be informed that if the event of a conflict or inconsistency between this FAQ and the requirements of the applicable ordinance or law governing relationship disclosures, the ordinance or law controls.

Also, please be informed that the County Attorney's Office is not permitted to render legal advice to an applicant or any other outside party. Accordingly, if the applicant or an outside party has any questions after reading this FAQ, he/she is encouraged to contact his/her own legal counsel.

## ORANGE COUNTY SPECIFIC PROJECT EXPENDITURE REPORT

This lobbying expenditure form shall be completed in full and filed with all application submittals. This form shall remain cumulative and shall be filed with the department processing your application. Forms signed by a principal's authorized agent shall include an executed Agent Authorization Form.

**This is the initial Form:** \_\_\_\_\_  
**This is a Subsequent Form:** \_\_\_\_\_

### **Part I**

**Please complete all of the following:**

Name and Address of Principal (legal name of entity or owner per Orange County tax rolls): \_\_\_\_\_

---

Name and Address of Principal's Authorized Agent, if applicable: \_\_\_\_\_

---

**List the name and address of all lobbyists, Contractors, contractors, subcontractors, individuals or business entities who will assist with obtaining approval for this project. (Additional forms may be used as necessary.)**

1. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No\_\_\_
2. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No\_\_\_
3. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No\_\_\_
4. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No\_\_\_
5. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No\_\_\_
6. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No\_\_\_
7. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No\_\_\_
8. Name and address of individual or business entity: \_\_\_\_\_  
Are they registered Lobbyist? Yes \_\_\_ or No\_\_\_



**Part II**

**Expenditures:**

For this report, an "expenditure" means money or anything of value given by the principal and/or his/her lobbyist for the purpose of lobbying, as defined in section 2-351, Orange County Code. This may include public relations expenditures including, but not limited to, petitions, fliers, purchase of media time, cost of print and distribution of publications. However, the term "expenditure" **does not** include:

- Contributions or expenditures reported pursuant to chapter 106, Florida Statutes;
- Federal election law, campaign-related personal services provided without compensation by individuals volunteering their time;
- Any other contribution or expenditure made by or to a political party;
- Any other contribution or expenditure made by an organization that is exempt from taxation under 26 U.S.C. s. 527 or s. 501(c)(4), in accordance with s.112.3215, Florida Statutes; and/or
- Professional fees paid to registered lobbyists associated with the project or item.

The following is a complete list of all lobbying expenditures and activities (including those of lobbyists, contractors, Contractors, etc.) incurred by the principal or his/her authorized agent and expended in connection with the above-referenced project or issue. **You need not include de minimus costs (under \$50) for producing or reproducing graphics, aerial photographs, photocopies, surveys, studies or other documents related to this project.**

Date of Expenditure	Name of Party Incurring Expenditure	Description of Activity	Amount Paid
		<b>TOTAL EXPENDED THIS REPORT</b>	\$

**Part III**

**Original signature and notarization required**

I hereby certify that information provided in this specific project expenditure report is true and correct based on my knowledge and belief. I acknowledge and agree to comply with the requirement of section 2-354, of the Orange County code, to amend this specific project expenditure report for any additional expenditure(s) incurred relating to this project prior to the scheduled Board of County Commissioner meeting. I further acknowledge and agree that failure to comply with these requirements to file the specific expenditure report and all associated amendments may result in the delay of approval by the Board of County Commissioners for my project or item, any associated costs for which I shall be held responsible. In accordance with s. 837.06, Florida Statutes, I understand and acknowledge that whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his or her official duty shall be guilty of a misdemeanor in the second degree, punishable as provided in s. 775.082 or s. 775.083, Florida Statutes.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of  Principal or  Principal's Authorized Agent  
(check appropriate box)

Printed Name and Title of Person completing this form:

\_\_\_\_\_

STATE OF \_\_\_\_\_ :  
COUNTY OF \_\_\_\_\_ :

I certify that the foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ by \_\_\_\_\_. He/she is personally known to me or has produced \_\_\_\_\_ as identification and did/did not take an oath.

Witness my hand and official seal in the county and state stated above on the \_\_\_\_\_ day of \_\_\_\_\_, in the year \_\_\_\_\_.

(Notary Seal)

\_\_\_\_\_  
Signature of Notary Public  
Notary Public for the State of \_\_\_\_\_  
My Commission Expires: \_\_\_\_\_

\_\_\_\_\_  
Staff signature and date of receipt of form

\_\_\_\_\_  
Staff reviews as to form and does not attest to the accuracy or veracity of the information provided herein.

**FREQUENTLY ASKED QUESTIONS (FAQ)  
ABOUT THE  
SPECIFIC PROJECT EXPENDITURE REPORT**  
*Updated 3-1-11*

**WHAT IS A SPECIFIC PROJECT EXPENDITURE REPORT (SPR)?**

A Specific Project Expenditure Report (SPR) is a report required under Section 2-354(b) of the Orange County Lobbying Ordinance, codified at Article X of Chapter 2 of the Orange County Code, reflecting all lobbying expenditures incurred by a principal and their authorized agent(s) and the principal's lobbyist(s), contractor(s), subcontractor(s), and Contractor(s), if applicable, for certain projects or issues that will ultimately be decided by the Board of County Commissioners (BCC).

Matters specifically exempt from the SPR requirement are ministerial items, resolutions, agreements in settlement of litigation matters in which the County is a party, ordinances initiated by County staff, and some procurement items, as more fully described in 2.20 of the Administrative Regulations.

Professional fees paid by the principal to his/her lobbyist for the purpose of lobbying need not be disclosed on this form. (See Section 2-354(b), Orange County Code.)

**WHO NEEDS TO FILE THE SPR?**

The principal or his/her authorized agent needs to complete and sign the SPR and warrant that the information provided on the SPR is true and correct.

A principal that is a governmental entity does not need to file an SPR.

**HOW ARE THE KEY RELEVANT TERMS DEFINED?**

*Expenditure* means "a payment, distribution, loan, advance, reimbursement, deposit, or anything of value made by a lobbyist or principal for the purpose of lobbying. This may include public relations expenditures (including but not limited to petitions, flyers, purchase of media time, cost of print and distribution of publications) but does not include contributions or expenditures reported pursuant to Chapter 106, Florida Statutes, or federal election law, campaign-related personal services provided without compensation by individuals volunteering their time, any other contribution or expenditure made by or to a political party, or any other contribution or expenditure made by an organization that is exempt from taxation under 26 U.S.C. s. 527 or s. 501(c)(4)." (See Section 112.3215, Florida Statutes.) Professional fees paid by the principal to his/her lobbyist for the purpose of lobbying are not deemed to be "expenditures." (See Section 2-354, Orange County Code.)

*Lobbying* means seeking "to encourage the approval, disapproval, adoption, repeal, rescission, passage, defeat or modification of any ordinance, resolution, agreement, development permit, other type of permit, franchise, vendor, Contractor, contractor, recommendation, decision or other foreseeable action of the [BCC]," and "include[s] all communications, regardless of whether initiated by the lobbyist or by the person being lobbied, and regardless of whether oral, written or electronic." (See Section 2-351, Orange County Code.) Furthermore, *lobbying* means communicating "directly with the County Mayor, with any other member of the [BCC], or with any member of a procurement committee." (See Section 2-351, Orange County Code.) *Lobbying* also

means communicating “indirectly with the County Mayor or any other member of the [BCC]” by communicating with any staff member of the Mayor or any member of the BCC, the county administrator, any deputy or assistant county administrator, the county attorney, any county department director, or any county division manager. (See Section 2-351, Orange County Code.) *Lobbying* does not include the act of appearing before a Sunshine Committee, such as the Development Review Committee or the Roadway Agreement Committee other than the BCC.

*Principal* means “the person, partnership, joint venture, trust, association, corporation, governmental entity or other entity which has contracted for, employed, retained, or otherwise engaged the services of a lobbyist.” *Principal* may also include a person, partnership, joint venture, trust, association, corporation, limited liability corporation, or other entity where it or its employees do not qualify as a lobbyist under the definition set forth in Section 2-351 of the Orange County Code but do perform lobbying activities on behalf of a business in which it has a personal interest.

#### **DOES THE SPR NEED TO BE UPDATED IF INFORMATION CHANGES?**

Yes. It remains a continuing obligation of the principal or his/her authorized agent to update the SPR whenever any of the information provided on the initial form changes.

#### **WHERE DO THE SPR AND ANY UPDATES NEED TO BE FILED?**

The SPR needs to be filed with the County Department or County Division processing the application or matter. If and when an additional expenditure is incurred subsequent to the initial filing of the SPR, an amended SPR needs to be filed with the County Department or County Division where the original application, including the initial SPR, was filed.

#### **WHEN DO THE SPR AND ANY UPDATES NEED TO BE FILED?**

In most cases, the initial SPR needs to be filed with the other application forms. The SPR and any update must be filed with the appropriate County Department or County Division not less than seven (7) days prior to the BCC hearing date so that they may be incorporated into the BCC agenda packet. (See Section 2-354(b), Orange County Code.) When the matter is a discussion agenda item or is the subject of a public hearing, and any additional expenditure occurs less than 7 days prior to BCC meeting date or updated information is not included in the BCC agenda packet, the principal or his/her authorized agent is obligated to verbally present the updated information to the BCC when the agenda item is heard or the public hearing is held. When the matter is a consent agenda item and an update has not been made at least 7 days prior to the BCC meeting or the update is not included in the BCC agenda packet, the item will be pulled from the consent agenda to be considered at a future meeting.

#### **WHO WILL BE MADE AWARE OF THE INFORMATION DISCLOSED ON THE SPR AND ANY UPDATES?**

The information disclosed on the SPR and any updates will be a public record as defined by Chapter 119, Florida Statutes, and therefore may be inspected by any interested person. Also, the information will be made available to the Mayor and the BCC members. This information will accompany the other information for the principal's project or item.

**CONCLUSION:**

We hope you find this FAQ useful to your understanding of the SPR. Please be informed that in the event of a conflict or inconsistency between this FAQ and the requirements of the applicable ordinance governing specific project expenditure reports, the ordinance controls.

Also, please be informed that the County Attorney's Office is not permitted to render legal advice to a principal, his/her authorized agent, or any other outside party. Accordingly, if after reading this FAQ the principal, his/her authorized agent or an outside party has any questions, he/she is encouraged to contact his/her own legal counsel.

**AGENT AUTHORIZATION FORM**

I/We, (Print Bidder name) \_\_\_\_\_, Do hereby authorize (print agent's name), \_\_\_\_\_, to act as my/our agent to execute any petitions or other documents necessary to affect the CONTRACT approval PROCESS more specifically described as follows, (IFB NUMBER AND TITLE) \_\_\_\_\_, and to appear on my/our behalf before any administrative or legislative body in the county considering this CONTRACT and to act in all respects as our agent in matters pertaining TO THIS CONTRACT.

\_\_\_\_\_  
Signature of Bidder

\_\_\_\_\_  
Date

STATE OF \_\_\_\_\_ :  
COUNTY OF \_\_\_\_\_ :

I certify that the foregoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_ by \_\_\_\_\_. He/she is personally known to me or has produced \_\_\_\_\_ as identification and did/did not take an oath.

Witness my hand and official seal in the county and state stated above on the \_\_\_\_\_ day of \_\_\_\_\_, in the year \_\_\_\_\_.

(Notary Seal)

\_\_\_\_\_  
Signature of Notary Public  
Notary Public for the State  
of \_\_\_\_\_  
My Commission  
Expires: \_\_\_\_\_

**EXHIBIT A**

**LEASED EMPLOYEE AFFIDAVIT**

I affirm that an employee leasing company provides my workers' compensation coverage. I further understand that my contract with the employee leasing company limits my workers' compensation coverage to enrolled worksite employees only. My leasing arrangement does not cover un-enrolled worksite employees, independent contractors, uninsured sub-contractors or casual labor exposure.

I hereby certify that 100% of my workers are covered as worksite employees with the employee leasing company. I certify that I do not hire any casual or uninsured labor outside the employee leasing arrangement. I agree to notify the County in the event that I have any workers not covered by the employee leasing workers' compensation policy. In the event that I have any workers not subject to the employee leasing arrangement, I agree to obtain a separate workers' compensation policy to cover these workers. I further agree to provide the County with a certificate of insurance providing proof of workers' compensation coverage prior to these workers entering any County jobsite.

I further agree to notify the County if my employee leasing arrangement terminates with the employee leasing company and I understand that I am required to furnish proof of replacement workers' compensation coverage prior to the termination of the employee leasing arrangement.

I certify that I have workers' compensation coverage for all of my workers through the employee leasing arrangement specified below:

Name of Employee Leasing Company: \_\_\_\_\_

Workers' Compensation Carrier: \_\_\_\_\_

A.M. Best Rating of Carrier: \_\_\_\_\_

Inception Date of Leasing Arrangement: \_\_\_\_\_

I further agree to notify the County in the event that I switch employee-leasing companies. I recognize that I have an obligation to supply an updated workers' compensation certificate to the County that documents the change of carrier.

Name of Contractor: \_\_\_\_\_

Signature of Owner/Officer: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> 1. Name of Agent or Broker Street Address City, State, Zip	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
<b>INSURED</b> 2. Name of Insured Street Address City, State, Zip	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	
	INSURER A:	
	INSURER B:	
	INSURER C: 3.	
	INSURER D:	
INSURER E:		
INSURER F:		

COVERAGES      CERTIFICATE NUMBER:      REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSTR LTR	TYPE OF INSURANCE	ADDITIONAL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	8. LIMITS
3.	<b>GENERAL LIABILITY</b> <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR  GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	4.	5.	6.	7.		EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMPIOP AGG \$ \$
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS  <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						9. COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> EXCESS LIAB  <input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS-MADE  DED      RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> 10. ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		Y/N	N/A			WC STATU-TORY LIMITS      OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
11.							

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Orange County Government is additionally insured on the General Liability Policy. A waiver of subrogation applies in favor of Orange County Government, it's agents, employees, and officials on the Worker's Compensation Policy.

<b>CERTIFICATE HOLDER</b> 13. Orange County Board of County Commissioners Procurement Division 400 E. South Street Orlando, Florida 32801	<b>CANCELLATION</b> SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  <b>AUTHORIZED REPRESENTATIVE</b> 14.
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## ORANGE COUNTY CERTIFICATE OF INSURANCE REVIEW GUIDE

1. **PRODUCER:** Agent's name and address must be shown along with contact name phone, fax, and email address.
2. **INSURED:** Legal name and address of the entity entering into the contract or agreement
3. **INSURERS AFFORDING COVERAGE & NAIC #:** Name of the insurance company that is insuring the line of coverage. The INSURER and applicable letter will be used throughout the certificate to indicate the lines of coverage placed with a particular insurance company. A letter must be shown in the INSUR L TR section for each coverage line listed on the certificate.
4. **ADDL INSR:** Signifies whether coverage includes additional insured status. Very few agents use this section. Additional insured status is usually discussed in the Description of Operations/Locations/Vehicles section.
5. **SUBR WVD:** Signifies that a waiver of subrogation is in valid for each line of coverage as indicated.
6. **POLICY NUMBER:** A policy number should be listed for each line of coverage for which commercial insurance is being provided.
7. **POLICY EFFECTIVE/EXPIRA TJON DATES:** Effective and expiration dates should fall within the time frame of the inception of the contract or agreement.
8. **LIMITS:** As required in the written agreement. The general aggregate should be at least twice the per occurrence limit for all continuing service contracts. If the aggregate limit applies separately then the PROJECT box should be marked.
9. **AUTOMOBILE LIABILITY:** The ANY AUTO box is preferable however; some organizations do not own vehicles so the other boxes may be marked.
10. **WORKERS' COMPENSATION:** Look closely to see if any proprietor, partner, or executive officer is excluded. If so, please contact Risk Management for waiver approval. The WC STATUTORY LIMITS box must be selected.
11. **OTHER:** This section is used for other coverage such as professional liability and employee dishonesty. The same rules apply with regards to policy numbers, effective and expiration dates and limits.
12. **DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES:** This section typically contains any special or qualifying language such as additional insured status or waivers of subrogation. If additional space is needed an ACORD 101 should be attached. Please note that these certificates are for information only and do not confer any rights upon the certificate holder. This is why we also ask for the specific policy language or endorsement specifying that these provisions are in place.
13. **CERTIFICATE HOLDER:** Orange County Board of County Commissioners should be listed as the certificate holder. Individual departments and divisions should not be listed as the primary certificate holder.
14. **AUTHORIZED REPRESENTATIVE:** This section should contain the signature of the person authorized to issue the certificate on behalf of the insurance company.

**EXHIBIT B**

COMMERCIAL GENERAL LIABILITY  
CG 20 26 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

**ADDITIONAL INSURED – DESIGNATED  
PERSON OR ORGANIZATION**

This endorsement modifies Insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name Of Additional Insured Person(s) Or Organization(s)
<b><i>The following are additional insured under the Professional Liability section of this policy (already included under the GL by form #86571).</i></b>
YOUR MEDICAL DIRECTORS AND ADMINISTRATORS, INCLUDING PROFESSIONAL PERSONS, BUT ONLY WHILE ACTING WITHIN THE SCOPE OF THEIR DUTIES FOR THE NAMED INSURED AS MEDICAL DIRECTORS AND ADMINISTRATORS;
AN INDEPENDENT CONTRACTOR IS AN INSURED ONLY FOR THE CONDUCT OF YOUR BUSINESS AND SOLELY WHILE PERFORMING SERVICES FOR A CLIENT OF THE NAMED INSURED, BUT SOLELY WITHIN THE SCOPE OF SERVICES CONTEMPLATED BY THE NAMED INSURED;
STUDENTS IN TRAINING WHILE PREFORMING DUTIES AS INSTRUCTED BY THE NAMED INSURED;
ANY ENTITY YOU ARE REQUIRED IN A WRITTEN CONTRACT (HEREINAFTER CALLED ADDITIONAL INSURED) TO NAME AS AN INSURED IS AN INSURED BUT ONLY WITH RESPECT TO LIABILITY ARISING OUT OF YOUR PREMISES OR OPERATIONS:
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

Section II – Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for “bodily Injury”, “property damage” or “personal and advertising injury” caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

- A. In the performance of you ongoing operations; or
- B. In connection with your premises owned by or rented to you.

**EXHIBIT C**

POLICY NUMBER: \_\_\_\_\_ COMMERCIAL GENERAL LIABILITY  
**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY**

**ADDITIONAL INSURED – DESIGNATED  
PERSON OR ORGANIZATION**

This endorsement modifies Insurance provided under the following:

**COMMERCIAL GENERAL LIABILITY COVERAGE PART  
SCHEDULE**

Name Of Additional Insured Person(s) Or Organization(s)
ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS ATTN: PROCUREMENT DIVISION 400 E. SOUTH STREET, 2 <sup>nd</sup> FLOOR ORLANDO, FL 32801
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

**Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for “bodily Injury”, “property damage” or “personal and advertising injury” caused, in whole or in part, by your acts or omissions or the acts or omissions of those acting on your behalf:

- A. In the performance of you ongoing operations; or
- B. In connection with your premises owned by or rented to you.

## EXHIBIT D

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WORKERS COMPENSTION AND EMPLOYEES LIABILITY  
INSURANCE POLICY WC 00 03 13

2<sup>ND</sup> Reprint

*Effective April 1, 1984*

Advisory

---

### WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

#### Schedule

**Name of Person or Organization:**

ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS  
ATTN: PROCUREMENT DIVISION  
400 E. SOUTH STREET, 2<sup>ND</sup> FLOOR  
ORLANDO, FL 32801

© 1983 National Council on Compensation Insurance, Inc.

©NCCI Holdings, Inc.

**EXHIBIT E**

POLICY NUMBER:

**COMMERCIAL GENERAL LIABILITY  
CG 24 04 10 93**

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY

**WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US**

This endorsement modifies Insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

**SCHEDULE**

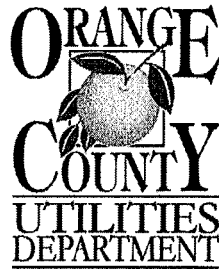
**Name of Person or Organization:**

ORANGE COUNTY BOARD OF COUNTY COMMISSIONERS  
ATTN: PROCUREMENT DIVISION  
400 E. SOUTH STREET, 2<sup>nd</sup> FLOOR  
ORLANDO, FL 32801

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

The TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US Condition (Section IV – COMMERCIAL GENERAL LIABILITY CONDITIONS) is amended by the addition of the following:

We waive any right to recovery we may have against the person or organization shown in the Schedule above 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 in the “Products-completed operations hazard”. This waiver applies only to the person or organization shown in the Schedule above.



**Orange County Utilities  
Water Reclamation Division  
BIOSOLIDS MANAGEMENT SYSTEM  
(BMS) MANUAL**

**Orange County Utilities – Water Reclamation Division**

**9150 Curry Ford Road**

**Orlando, Florida 32825**

**October 23, 2012  
Revision Dec 26, 2012**

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6.4 MANAGEMENT REVIEW ( <i>Element 17</i> ) .....	
<b>LIST OF APPENDICES</b> .....	

## DOCUMENT CONTROL AND REVISION LOG

*Printed copies of this document are not controlled.*

DATE	REVISION NUMBER	APPROVAL
2003	00: Draft Issue	Tim Madhanagopal, PE EMS Coordinator
2005	01: Original Issue, Environmental Management System Manual for Biosolids	Tim Madhanagopal, PE EMS Coordinator
November 2005	02: Desktop Review of EMS Manual and resulting revisions	Tim Madhanagopal, PE EMS Coordinator
May 2006	03: Various Manual Edits	Tim Madhanagopal, PE EMS Coordinator
November 2006	04: Various Manual Edits In response to internal audit	Tim Madhanagopal, PE EMS Coordinator
October 2007	05: Various changes in response to External Audit	Tim Madhanagopal, PE EMS Coordinator
March 2009	06: Element 16 Revised	Tim Madhanagopal, PE EMS Coordinator
January 2011	07: Review and update of manual	Tim Madhanagopal, PE EMS Coordinator
March 2011	08: Second Revision of Element 16	Tim Madhanagopal, PE EMS Coordinator
October 2012	09: OCU Biosolids Management System BMS Manual	Tim Madhanagopal, PE BMS Coordinator
December 2012	10: OCU Biosolids Management System BMS Manual Revision	Tim Madhanagopal, PE BMS Coordinator



## Biosolids Management System Manual

### Section 1 – Purpose and Introduction

This manual describes the Biosolids Management System used by the Orange County Utilities Department (OCUD) Water Reclamation Division (WRD) in managing its biosolids activities.

#### 1.1 PURPOSE AND SCOPE

##### Purpose

The OCU "Biosolids Management System" is designed, developed, and implemented to enable biosolids beneficial reuse activities associated with the three water reclamation facilities owned and operated by the OCUD- Eastern Water Reclamation Facility (EWRf), South Water Reclamation Facility (SWRF) and Northwest Water Reclamation Facility (NWRf) to be continually improved and meet desired outcomes in the areas of:

- Regulatory compliance
- Environmental performance
- Quality biosolids practices
- Relations with interested parties

##### Scope

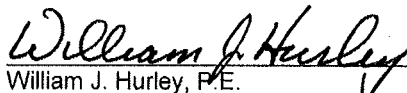
The OCU Biosolids Management System scope includes all biosolids activities performed by the OCU throughout the biosolids value chain, including:

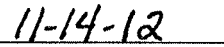
- Pretreatment and collection system
- Wastewater treatment and solids generation
- Biosolids thickening, stabilization and dewatering
- Biosolids storage and transportation
- Biosolids use and/or land application
- Oversight of the contractor operations in accordance with the executed contracts.

#### 1.2 AUTHORIZATIONS

The implementation of this Biosolids Management System that conforms to the National Biosolids Partnership Environmental Management System (EMS) Program is authorized by the Orange County Board of County Commissioners (OC-BCC) Resolution Number 2003-M-12, adopted on April 29, 2003. The name was changed to Biosolids Management System by the NBP in 2011.

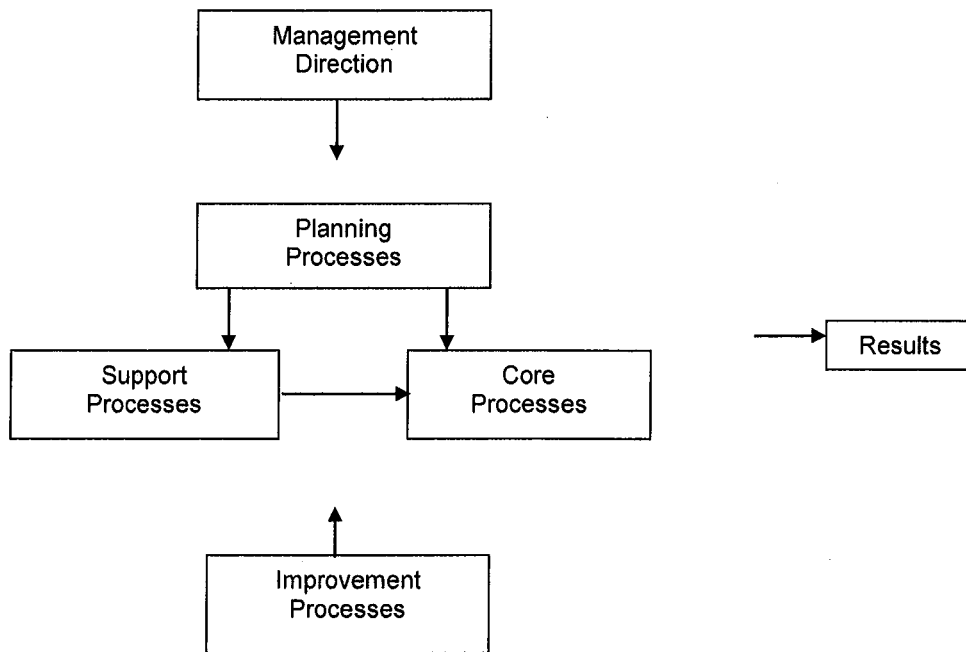
This Biosolids Management System Manual has been approved by the Manager, Orange County Utilities, Water Reclamation Division.

  
\_\_\_\_\_  
William J. Hurley, P.E.  
Manager, Water Reclamation Division  
Orange County Utilities

  
\_\_\_\_\_  
Date Approved

## INTRODUCTION *(Element 1)*

This manual describes the OCU Biosolids Management System (BMS) and the interaction of processes and procedures used by the Water Reclamation Division to support that system. This interaction is illustrated by the flow chart below:



Management Direction: Provide overall goals and directions for biosolids management activities.

Planning Processes: Provide processes used to plan biosolids management activities.

Support Processes: Provide processes used to support biosolids management activities.

Core Processes: Provide processes used to control and monitor biosolids management activities.

Improvement Processes: Provide processes used to improve biosolids management activities.

## Section 2 – Management Direction

### **Purpose**

This section describes processes used in providing direction for the Biosolids Management System.

### **References**

Appendix A – Orange County Board of County Commissioners (OC-BCC) I Resolution Number 2003-M-12, adopted on April 29, 2003

Appendix B – Biosolids Management System Goals and Objectives

### **2.1 BIOSOLIDS MANAGEMENT POLICY** *(Element 2)*

The County Commissioners formally adopted a Biosolids Management Resolution on April 29, 2003. This resolution commits the County to manage its biosolids produced at its facilities in an environmentally responsible manner and manage the related activities in accordance with the ten (10) principles of the National Biosolids Partnership (NBP) Code of Good Practice.

The Biosolids Management Policy forms the core of the management system and is an integral part of management direction. The Policy is integrated in all the biosolids activities. The management review process shall be centered on the Policy and biosolids activities that have impact on the Biosolids Management Program. The following areas are considered:

- Enhanced Environmental Performance
- Quality Management Practices
- Regulatory Compliance and
- Relations with Interested Parties

### **2.2 BIOSOLIDS MANAGEMENT SYSTEM –EXPECTED RESULTS** *(Element 5)*

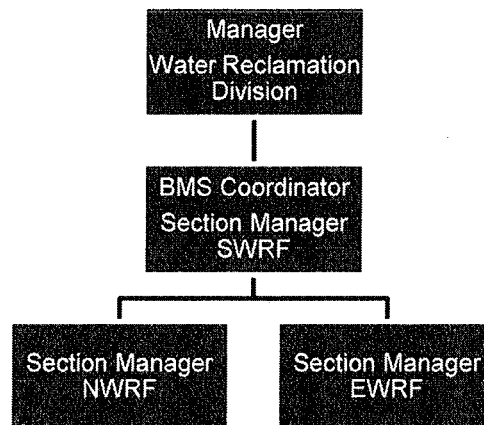
The County Biosolids Management Program is intended to help the Water Reclamation Division:

- Maintain and improve relations with interested parties
- Maintain biosolids regulatory compliance
- Strive for beneficial biosolids reuse options
- Maintain environmental performance
- Improve Safety
- Improve operator skill levels.

Goals are set and reviewed through the Management Review Process and include consideration from any input from the public and strategic direction for the Biosolids Management Program.

### 2.3 ROLES AND RESPONSIBILITIES *(Element 7)*

Lines of authority and responsibilities associated with the Orange County Biosolids Management System (BMS) are summarized below.



#### Description of Roles and Responsibilities

The WRD Manager has ultimate responsibility for the performance of the County's Biosolids Management Program.

The Division Manager is responsible allocating human and financial resources. The Division Manager has appointed a Biosolids Management System (BMS) Coordinator and delegated responsibilities to that person for:

- Implementing and maintaining the Biosolids Management System
- Reviewing and reporting on the performance of the Biosolids Management Programs
- Communicating with the National Biosolids Partnership and other appropriate agencies concerning the Biosolids Management System.
- Making required revisions in the Manual.
- Providing technical guidance to the BMS Team.
- 

The SWRF Section Manager is the current Biosolids Management Systems Coordinator.

The BMS Management Team includes all the Section Managers and the Division Manager. This team is responsible for conducting management reviews and for ensuring the BMS functions effectively.

The BMS Implementation Team includes the WRF Division Manager, the three Section Managers, Operations Supervisors from three facilities, and Plant Specialists assigned by the Division Manager. The Environmental Compliance Section Manager serves as the internal auditor.

The Contractors are assigned to perform biosolids activities on behalf of the County as defined in contracts. Contractor activities included within the scope of this Management System currently include:

- Transportation of biosolids
- Stabilization of biosolids (from EWRF and NWRF)
- Land application of biosolids
- Compliance with applicable regulations and contracts

The shift leads and the Operators are responsible for the day to day operation of the activities. The Maintenance staff are responsible for preventive and corrective maintenance of the all equipment at the County facilities. Other persons have responsibilities within the Biosolids Management System as described in various sections of this manual.

## **2.4 MANAGEMENT OF CHANGE** *(Element 7, 15, 17)*

### **Purpose**

To plan significant changes that affects the biosolids management system and communicates the changes to the affected stakeholders.

### **Responsibilities**

The BMS Management Team – implements and completes management of change that may affect significant environmental aspects, safety risks, or legal requirements.

The BMS Coordinator – notifies certifying bodies of significant changes. The Section Managers ensure that the changes are implemented.

### **Process Description**

This process applies to significant changes, including those, which significantly affect risks and critical control points as determined by the Division Manager. Such changes can include:

- Changes in legal and other requirements
- Organizational changes
- Equipment and technology changes
- Changes in contractor(s)
- Changes in materials and/or suppliers
- Other changes identified through Management Review

## **Procedure**

1. Receive pertinent information regarding changing conditions and/ or requirements (example: new regulation).
2. Assess each Biosolids Management System process for that which would be affected by the changing condition or requirement.
3. Assign responsibilities to the designated staff.
4. Obtain adequate resources to respond to changing conditions or requirements.
5. Execute the change.
6. Notify certifying agency and the assigned third party auditor of significant process or equipment changes that may warrant a change in the defined critical control points and other areas of the Biosolids Management System.

## Section 3 – Planning Processes

### **Purpose**

This section describes processes within the Biosolids Management System used in planning biosolids program activities.

### **References**

Appendix C – List of Legal and Other Requirements

Appendix D – List of Critical Control Points and Operational Controls

Appendix E – Division Emergency Preparedness Plan

### **3.1 PUBLIC INPUT** *(Element 6, 9)*

#### **Process Description**

Public input is considered to aid in planning the Biosolids Management Program, in developing biosolids goals and objectives, and identifying other improvement opportunities. Such input includes meaningful information submitted by interested parties, including the public, regulators, and other stakeholders recognized by the Division. The public will be made aware of the NBP's Code of Good Practice and our commitment to the Code via publishing it on the website.

#### **Responsibilities**

Division Manager – coordinates communications to the elected officials thru the Department Director and the Mayor's Office.

Utilities Services Specialist and the Management Team – provide relevant information to the public and interested parties and facilitate participation by interested parties in the Biosolids Management Program.

#### **Procedure**

Public input is obtained proactively through:

- Input from County Website and Emails
- Call System
- Community Events
- Other means as determined through Management Review
- Utilities Planning Group Meetings

The public input is routed to the BMS Coordinator for review. All the relevant public input is then presented to the Management and Engineering review for consideration in the planning process.(A)

## **3.2 COMPLIANCE** *(Element 4,13,14)*

### **Responsibilities**

The Manager and the BMS Coordinator – review both current and pending legal and other requirements with Department staff.

BMS Management Team – identify, track, evaluate, and implement legal and other requirements for their respective areas of responsibility.

Contractors – identify, track, evaluate, and implement legal and other requirements for their area of service.

### **Procedure**

#### **A. Identification and Implementation of Legal and Other Requirements**

Legal requirements are proactively identified through networking, communication with regulatory agencies, professional organizations, internet regulatory sites and workshops, and any other available means. The Management Team is responsible for tracking Legal and Other Requirements and maintaining the required records on the protected share drive.

The BMS Management Team identifies legal and other requirements that could be applicable, including any new or changed requirements, and how operations and biosolids activities will respond to those requirements to ensure compliance.

Other requirements are those, which the County voluntarily chooses to subscribe, and are identified below:

- Related County Ordinances that impact the land application sites.

#### **B. Ensuring Compliance**

Biosolids activities are monitored continually and compared to legal and other requirements as follows:

- The Management team with laboratory biosolids data monitors against EPA 503 regulations and FAC 62-640
- The Plant Operations Supervisor monitors operations to assure compliance with applicable regulations and permits.
- The Section Managers monitor operations to assure consistency with applicable legal requirements.
- The Environmental Compliance Section Manager monitors industrial discharges that would enter the wastewater stream to ensure compliance with the County issued discharge permits.



- The Operations Supervisors and/or their designees monitor contractor activities to ensure consistency with contract requirements.

Any identified inconsistencies with legal and other requirements are addressed through the Corrective and Preventive Action Process (CPAP).

Non Compliance with the Legal and other requirements are handled by the Plant Managers. They are responsible for addressing the Non Compliance issues with the regulators.

### 3.3 IDENTIFICATION OF CRITICAL CONTROL POINTS & OPERATIONAL CONTROLS *(Element 3,10)*

#### Purpose

To identify locations and activities within the scope of the Biosolids Management Program needed to control biosolids quality, compliance with legal and other requirements, public acceptance, and significant environmental impacts.

#### Responsibilities

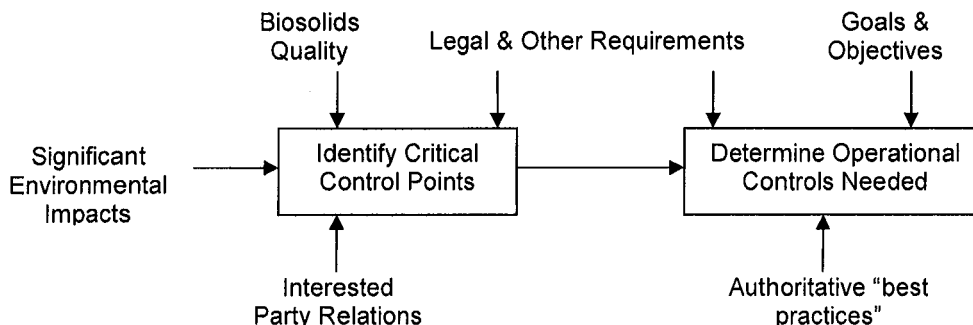
The Section Managers and Operations Supervisors – identify critical control points and applicable operational controls. The BMS coordinator and /or Section Managers are responsible for evaluating the identified CCP and updating the documents and notifying the NBP and the internal and external auditors of major changes. Management of Change procedure shall be followed whenever identifying and notifying the changes. (E)

#### Process Description

The critical control points are identified based on the need to control:

- Significant Environmental Impacts
- Compliance (with legal and other requirements)
- Biosolids Quality
- Relations with Interested Parties

Operational controls are methods used to ensure desired results are achieved at the critical control points. Desired results include control of significant environmental impacts, compliance (with legal and other requirements), acceptable biosolids quality, and acceptable relations with interested parties.



## **Procedure**

With input from operators and other knowledgeable persons, identify locations and activities (i.e. critical control points) within the Biosolids Program Activities where it is necessary to control the following:

- Environmental Impacts
- Compliance (with legal and other requirements)
- Biosolids Quality
- Relations with Interested Parties

Using input from operators and other knowledgeable persons and considering best practices from authoritative sources, such as the NBP Manual of Good Practice, determine operational controls needed at each critical control point. These controls can include, but are not limited to:

- SOP's
- Work Instructions
- Personnel competency and skills tests
- Contracts and purchase orders
- O & M information
- Other controls as appropriate

Review critical control points and operational controls as deemed necessary by the BMS Coordinator and as required by Management of Change.

### **3.4 EMERGENCY PREPAREDNESS AND RESPONSE** *(Element 11)*

#### **Responsibilities**

Utilities Safety Administrator – recommends the approval of the Emergency Preparedness and Response Plan and any revisions to the Plan to the Department Director and Division Managers. .

BMS Management Team – identifies emergency situations that may negatively affect the Division and oversees necessary preparations for specific emergencies.

Contractors – establish and maintain emergency preparedness and response plans and procedures for their area of service to the Division.

#### **Procedure**

##### **A. Emergency Preparedness Plans**

The Section Managers determine the need for Emergency Preparedness and Response Plans and directs the development of those plans to ensure they appropriately address:

- Potential situations involving health risks, public relations risks, and inconveniences
- The likely type and scale of an emergency situation
- The nature of on-site hazards

- Potential for emergency situations from nearby facilities
- Other local emergency response plans that may influence method(s) for responding
- Internal and external communication plans
- Actions required to minimize environmental damage or safety risk
- Mitigation and response actions

Emergency Preparedness and Response Plan documents are reviewed as needed and /or as directed by the Safety Administrator and at other times as directed by the BMS Management Team.

Emergency Preparedness and Response Plan shall include or reference the following:

- Supervisor and employee contact information
- External aid agencies and contact information
- Major Equipment available
- Roles and responsibilities of individuals involved
- Procedures based on potential to cause environmental impact or health and safety risk

Provide adequate training, checklists, instructions, drills, and simulations as needed for all staff and provide documentation of such training.

Review the Emergency Preparedness and Response Plan for effectiveness through the Corrective and Preventive Action Process following an emergency incident as determined by management.

Test emergency response plans through simulations and/or drills and test when significant changes to emergency response plans have occurred.

Revise Emergency Preparedness and Response Plan as appropriate based on lessons learned and actual events and through the Corrective and Preventive Action Process.

#### B. Incident Investigation

Incidents and accidents that cause the Emergency Preparedness and Response Plan to activate are investigated as directed by the Safety section, and any findings corrected by the respective plant managers and supervisors..

## **Section 4 – Support Processes**

### **Purpose**

This section describes processes within the Biosolids Management System that support the core processes and planning processes to ensure that the management system functions effectively.

### **References**

Appendix F- Documents and Records Requiring Control

### **4.1 COMMUNICATION PROGRAM** *(Element 9)*

#### **Purpose**

The Communication Program within the Biosolids Management System is intended to proactively provide information about the County's biosolids activities to employees, contractors, and external interested parties.

#### **Responsibilities**

Utilities Services Specialist (USS) – coordinates communications activities.

BMS Management Team – provides relevant information to Division staff, other County Departments/Divisions, the public and interested parties.

Contractors – provide relevant information in cooperation with the Division in the areas of their service agreements. The contractors are required notify the Manager/ Supervisor of the County facilities of any violations or their permit conditions, spills, accidents and public inquiry about the product. (C)

#### **Procedure**

##### **A. Internal Communication**

Communicate relevant information internally to managers, employees, and other County departments through staff meetings, special purpose meetings, management review, e-mail, memorandums, postings, the intranet, or other methods.

The contractors will be communicated via emails, phone calls and in person during inspections (D). They will be informed of the weekly hauling schedule, biosolids quality parameters, public comments/inquiries, equipment and employee issues.

Subjects communicated internally include, but not limited to, the following:

- Biosolids Management Policy
- NBP Code of Good Practice
- Goals, objectives, and action plans
- Legal and other requirements
- Significant environmental impacts
- Performance in achieving outcomes
- Changing circumstances and results

Obtain employee input and suggestions and bring to the BMS Coordinator for consideration. The BMS Coordinator will implement those suggestions that are considered appropriate.

#### B. External Communication

The public are informed of relevant information through meetings, public events, Board meetings, UPG presentations, e-mails, letters, web site, telephone, plant tours, 311 Calling System, and other methods.

Interested parties are informed of how they can participate in meetings and communicate their input on the County Biosolids Management Program via emails and website. They are made aware of the program requirements via County website and informed by the Utilities Services Specialist. (B)

Respond to inquiries or requests for information within reasonable time of receipt unless complexity of request requires more time. Maintain a tracking log of all inquiries/requests.

Complaints shall be responded to immediately. All BMS program related complaints received through any communication method shall be brought to the attention of the BMS Coordinator and/or to the USS. The BMS Coordinator and/or the Section Managers are responsible for responding to the complaint. All requests and complaints are tracked.

## 4.2 BIOSOLIDS PROGRAM PERFORMANCE REPORTING *(Element 13, 15)*

### **Purpose**

To prepare a written report for periodically communicating biosolids management program performance to interested parties.

### **Responsibilities**

Division Manager – reviews, finalizes, and communicates the Biosolids Management Program Performance Report to interested parties.

BMS Management Team – compiles information for the Biosolids Management Program Performance Report. The USS compiles the report and publishes it on the website.

## **Procedure**

Prepare the Biosolids Management Program Performance Report annually to include the following:

- Performance toward achieving biosolids goals
- Performance toward compliance
- Performance of contractor activities
- Third Party Audit Summary
- Internal audit summaries
- Other information that the BMS Management Team deems to be relevant

Communicate this report both internally and externally using appropriate methods.

## **4.3 DOCUMENT CONTROL AND RECORDKEEPING** *(Element 12)*

### **Purpose**

To identify and control important documents used for managing the Division activities and records required to demonstrate Division performance.

### **Responsibilities**

Designated BMS Team Member ensures effective control of the designated document(s) and record(s).

Contractors are required to maintain the record of regulatory inspections and correspondences and public inquiry and should make them available to the WRD upon request. (C)

### **Procedure**

#### **A. Control of Documents**

Identify documents used for managing biosolids activities that require control and individuals responsible for controlling these documents.

The person responsible for controlling each document takes steps to:

- Ensure each document is approved for adequacy, identified, dated, readily available, and reviewed as necessary to ensure it is correct, complete, and current.
- Communicate approved changes to persons affected by the change.
- Ensures the correct versions of documents are in use.
- Removes obsolete versions of controlled documents from unintended use.

#### **B. Control of Records**

Identify records used for managing biosolids activities that require control and individuals responsible for controlling these records.

The person responsible for controlling each record takes steps to:

- Ensure records are identifiable, legible, secure, readily accessible, and changed only under the authority of the responsible person.
- Ensure records are retained and disposed of consistent with appropriate records retention requirements.

#### C. Documents and Records of Internal and External Origin

External - Regulations, material safety data sheets and Manufacturer's information.

Internal – Permits, Operational and Compliance Records, Training Records, and O& M Manuals.

### 4.4 COMPETENCY, AWARENESS AND TRAINING *(Element 8)*

#### **Purpose**

To ensure that personnel who perform biosolids activities on behalf of the County are aware of their responsibilities within the Biosolids Management System and are capable of performing assigned responsibilities safely and effectively.

#### **Responsibilities**

BMS Management Team – evaluate competency and awareness of staff within respective areas of responsibility and assign appropriate training.

Contractors – ensure competency and awareness of personnel in respective areas of service and ensure appropriate training is provided.

#### **Procedure**

Identify competency requirements for each job and communicate to staff.

Identify training needs necessary to maintain an acceptable level of staff competency including skills, education, experience, and other qualifications. Required training for Water Reclamation Division employees is as follows:

- Biosolids Management System awareness training
- On the job biosolids process training
- Safety Training
- Emergency Preparedness Training
- Other training required by legal and other requirements (Skill tests)

The training Coordinator or his designee takes steps to ensure all employees receive BMS Awareness training and that new or re-assigned employees receive this training.

Evaluate staff competency through supervisory review, performance reviews, tests, or other methods. Identify inadequacies in competency and correct them through additional training.

Training methods include, but are not limited to, the following:

- On-the-job training
- Vendor and start-up training and demonstrations
- One-on-one training
- Self training
- Safety meetings
- Other methods

The training coordinator keeps competency and training records.



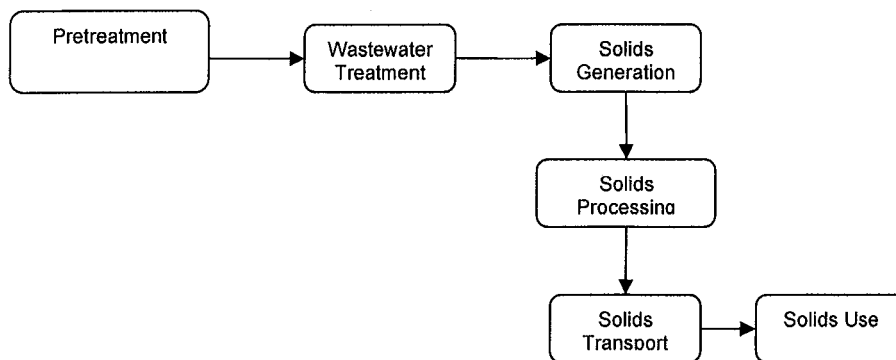
## Section 5 – Core Processes

### Purpose

This section describes core processes within the biosolids program that are managed in accordance with requirements of the Biosolids Management System to ensure they function effectively.

### 5.1 CONTROL OF BIOSOLIDS OPERATIONS *(Element 10, 13, 14)*

Activities for biosolids production and use within the County biosolids program are illustrated in the flowchart shown below.



### Responsibilities

Division Staff – ensure all aspects of production throughout the value chain are appropriately maintained and operated.

The WRD utilizes the Maximo work order system to maintain all the equipment in the Biosolids Operations. The equipment statuses are discussed by the Senior Maintenance Coordinators with the Plant Managers every day. The Plant Managers and Division Managers discuss the status of the corrective maintenance work orders at the weekly Managers meetings with the Utilities Supervisor. Maintenance Work orders are given a high priority to avoid any equipment down time.

## **Process Description**

Biosolids production and use operations and activities are controlled as described under Section 3.3 – Identification of Critical Control Points and Operational Controls and are monitored as described in Section 5.2 – Monitoring and Measuring. The Contractors are encouraged to identify the CCPs in their operations and develop operational controls for them. (C)

## **5.2 MONITORING AND MEASURING** *(Element 13)*

### **Purpose**

To ensure a systematic approach for monitoring and measuring biosolids program performance.

### **Responsibilities**

Section Managers review and approve monitoring and measuring activities conducted for compliance with legal and other requirements, participates in management review of performance and tracking data demonstrating progress towards biosolids program goals and objectives.

BMS Management Team – determine performance measures required for critical control points, operational controls, contractor activities, and goals and objectives.

Contractors – maintain monitoring and measuring data and performance records as required by their respective service agreements.

### **Process Description**

The monitoring and measuring process includes activities used to monitor:

- Daily operations (to ensure compliance with legal and other requirements and achievement of quality requirements)
- Progress towards goals and objectives (to ensure goals and objectives are achieved)
- Performance of the Biosolids Management System (to ensure biosolids program activities are consistent with BMS requirements)

### **Procedure**

Operators monitor and measure daily operations to ensure compliance with legal and other requirements and consistency with operating procedures using the following:

- Biosolids Data
- Operations Log Books, process control logs, and other operational records
- SCADA and data loggers
- Land Application site inspection records
- Contractor evaluations
- Regulatory Correspondences

Maintenance monitors equipment condition using the maintenance management system.

Progress towards goals and objectives is monitored through management reviews.

Consistency with Biosolids Management System requirements is monitored through internal and third party audits.

Monitoring and measurements activities are recorded and the records are maintained on the protected share drive folder.

Any inconsistencies with the requirements may be subject to corrective and preventive action at the discretion of the Biosolids Management Team.

### **5.3 CONTROL OF CONTRACTORS** *(Element 3,4,5,7,14)*

#### **Purpose**

To ensure that the services provided by contractors result in positive outcomes.

#### **Responsibilities**

Section Managers– review, approve, and communicate to management.

Section Managers and Supervisors– oversee contractors in their respective areas and evaluate performance.

#### **Procedure**

Use the County's procedures for identifying, selecting, approving, and awarding of contracts to contractors and suppliers.

Ensure that contractors and/or suppliers are informed of their responsibilities in providing their services, especially as it relates to the Biosolids Management Program. They are informed through their contracts, letters, memos of understanding, memorandums, or other means of communication.

Ensure that contractors' required responsibilities include, but are not limited to, the following:

- Comply with all applicable legal and other requirements
- Prepare and maintain an emergency preparedness and response plan
- Properly train all personnel and/or subcontractor personnel
- Communicate with interested parties
- Maintain control of applicable documents and records
- Maintain and provide to County all applicable data and performance measures as requested
- Participate in corrective and preventive action plans

Evaluate the contractor performance against established requirements as directed by the Division Manager. Communicate the result of the evaluation to the contractor or supplier. For inadequate performance, require contractor or supplier to submit corrective and preventive action plans for review and approval.

The Manager takes action to ensure that continuing inadequate performance by contractors or suppliers is addressed.

## Section 6 – Improvement Processes

### **Purpose**

This section describes processes within the Biosolids Management System used to continually improve the performance of County's biosolids program and results of that program.

### **References**

Appendix B – Biosolids Management System Goals, Objectives, and Action Plan

Appendix H - Corrective and Preventive Action Request Form

### **6.1 BIOSOLIDS OBJECTIVES FOR IMPROVEMENT** *(Element 4,5)*

#### **Process Description**

Objectives for the biosolids program are established to help in achieving goals set forth in Section of this manual and other targets, as directed by the Manager.

To establish procedures for determining biosolids improvement objectives, action plans for achieving these objectives, and ensuring objectives are achieved.

#### **Responsibilities**

Division Manager – approves the adoption of biosolids goals and objectives and the associated action plan; reviews performance toward goals.

BMS Management Team – establishes, monitors, and tracks performance toward goals and objectives.

#### **Procedure**

Biosolids objectives are established at least annually by the BMS Management Team and include consideration of:

- Strategic plans
- Policy commitments, biosolids goals and other direction from the Water Reclamation Division Manager
- Input from management reviews, including changing circumstances
- Input from interested parties, as submitted by the BMS Coordinator

Objectives can also consider:

- Improvement of environmental performance of biosolids management activities
- Best management practices

- Critical Control Points
- Safety
- Technological Options
- Financial, operational, and business requirements

Ensure objectives use SMART criteria (specific, measurable, achievable, relevant, and time-bound).

Develop a progressive step-by-step action plan for each objective, outlining the timeline and responsibilities for each step of the action plan.

Monitor, measure, and review progress toward goals and objectives at least quarterly during Management Review meetings or other meetings. If progress is determined to be inadequate, the management team may use the Corrective and Preventive Action Process to evaluate the problem.

## **6.2 INTERNAL AUDITS** *(Element 16)*

### **Purpose**

To perform internal evaluations to determine whether the biosolids program is effectively meeting BMS requirements and evaluate the effectiveness of the goals and objectives processes based on progress in achieving the objectives.

### **Responsibilities**

BMS Implementation Team – determine the scope of internal audits, provide input during audits, and report findings to management team.

Internal Auditor – conducts audits and report findings back to the BMS Management Team.

### **Procedure**

The need for internal audits, the scope of such audits, assignment of auditors, and timing of audits, are determined through the management review process. These audits may include, but are not limited to:

- Biosolids program requirements
- Performance in meeting biosolids management policy requirements
- Contractor Performances
- CPAP Process
- Compliance
- Training Needs

The BMS Coordinator approves internal audit schedules.

Upon completion of audits, audit reports are submitted to the BMS Coordinator with findings and proposed corrective actions identified. The BMS Coordinator approves and/or determines alternate action to be taken in response to audit findings. The Corrective actions for findings from audits are addressed using the Corrective and Preventive Action process.

The BMS Coordinator and the Internal Auditor Submit results of internal audits to management for review at the weekly management meetings. The Internal audit records are maintained on the protected share drive.

### **6.3 CORRECTIVE AND PREVENTIVE ACTION PROCESS** *(Element 14)*

#### **Purpose**

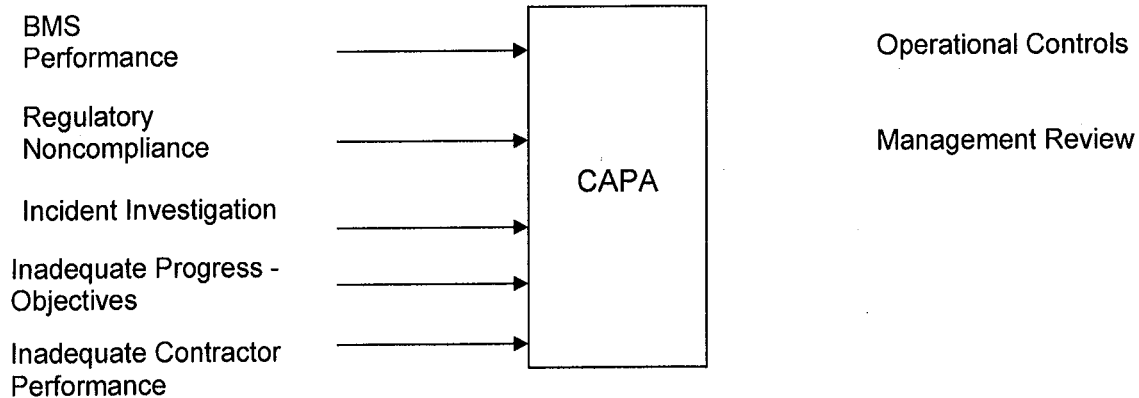
To correct and/or prevent inconsistencies in the Biosolids Management Program so that the program can be continually improved.

#### **Responsibilities**

BMS Management Team – assigns and/or participates in performance of corrective and preventive actions and Reviews corrective and preventive actions.

BMS Implementation Team\_– The Supervisors/designee review and track the progress in completing the corrective actions and reports the findings to the Plant Managers. If the progress is not adequate, the supervisors will not be close the action item until it is resolved or corrected. The Plant Managers are responsible for analyzing the trends and implementing the changes as needed to the CPAP process within their facility.

## Process Description



## Procedure

This procedure is used to address inadequate performance in the Biosolids Management Program.

Any non-compliances and/or non-conformances are referred to the BMS Coordinator. The BMS Coordinator takes action as described below.

Other inconsistencies are also addressed using the procedure described below, including:

- Incidents that cause the Emergency Preparedness and Response Plan to activate
- Lack of progress towards goals and objectives
- Inadequate contractor performance
- Other deficiencies identified by the Biosolids Management Team

Formal corrective action plans include the following:

- Description of nonconformance
- Identification of root cause
- Actions required to be taken
- Responsible person for approving and closing the action
- Estimated completion date
- Actual completion date

The BMS Coordinator logs all formal corrective action plans.



## 6.4 MANAGEMENT REVIEW *(Element 17)*

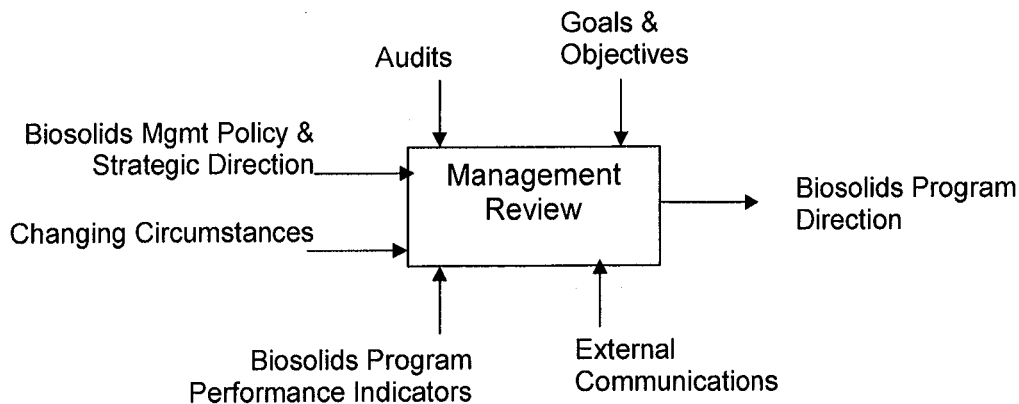
### Purpose

To evaluate the suitability, adequacy, and effectiveness of the Biosolids Management System and provide direction for continually improving performance of the biosolids program consistent with the Biosolids Management Policy.

### Responsibilities

BMS Management Team – evaluates, reviews, and reports the performance, effectiveness, and adequacy of the Biosolids Management System and its related processes.

### Process Description



### Procedure

Management Team Reviews the issues related to the Biosolids Management and the system performance at the weekly Senior Staff meetings. The BMS coordinator facilitates this review at the staff meetings.

The BMS Management Team conducts Management Reviews on the following areas (F):

- Policy Commitments
- Performance Indicators
- Regulatory Changes /Permit issues
- External Communication and public relations
- Corrective and Preventive Action
- Contractor Performance
- Performance towards expected results
- Changing Circumstances
- Tracking expected Results

This agenda is modified as needed.

Management review meeting minutes are prepared and communicated as directed by the BMS Coordinator and include recommendations and conclusions reached during the management review related to the suitability, adequacy, and effectiveness of the BMS based on:

- Biosolids activities that are working well and those that are not working well
- Areas for improvement, including documentation and communication of any changes

The records including Management Reviews and follow up actions are kept on protected share drive and they are available to the BMS Implementation Team.

## List of Appendices

Reference is made to the separate document "Orange County Biosolids Management System Manual Appendices" which contains all materials noted in the list below:

<u>Appendix</u>	<u>Section</u>
A. BCC Resolution No.	1.2 and 2
B. Biosolids System Goals, Objectives, & Action Plan	2 and 6
C. List of Legal and Other Requirements	2 and 3
D. List of Critical Control Points & Operational Controls	3
E. Division Emergency Preparedness Plan	3
F. Documents & Records Requiring Control	4
G. Hauling Contracts	2
H. CAPA (Corrective and Preventive Action Form) Corrective and Preventive Action Plan	6
I. Information Sheet and Frequently Asked Questions (FAQ)	
J. Facility Biosolids Schematics	

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Tampa  
6712 Benjamin Road  
Suite 100  
Tampa, FL 33634  
Tel: (813)885-7427

TestAmerica Job ID: 660-56490-1  
Client Project/Site: Northwest Sludge

For:  
Orange County Utilities Water Division  
9124 Curry Ford Road  
Orlando, Florida 32825

Attn: Ms. Sonja Williams

Authorized for release by:  
9/26/2013 8:47:52 AM

Jess Hornsby, Project Manager I  
jess.hornsby@testamericainc.com

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*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results: relate only to the items tested and the sample(s) as received by the laboratory.*



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## Sample Summary

Client: Orange County Utilities Water Division  
Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-56490-1	Northwest TCLP	Solid	09/11/13 16:00	09/13/13 10:00

TestAmerica Tampa

9/26/2013

## Definitions/Glossary

Client: Orange County Utilities Water Division  
Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
L	Off-scale high. Actual value is known to be greater than the value given
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

#### GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

#### GC Semi VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

### Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica Tampa

## Case Narrative

TestAmerica Job ID: 660-56490-1

Client: Orange County Utilities Water Division  
Project/Site: Northwest Sludge

Job ID: 660-56490-1

Laboratory: TestAmerica Tampa

### Narrative

---

5

#### Receipt

The sample was received on 9/13/2013 10:00 AM; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.8°C.

The Chain-of-Custody (COC) was incomplete as received; there was no sample ID listed on the COC. The sample was logged with information obtained from the container labels.

#### GC/MS VOA

Method 8280B: The matrix spike (MS) recoveries for batch 141579 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### GC Semi VOA

No analytical or quality issues were noted.

#### Metals

No analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.



## Detection Summary

Client: Orange County Utilities Water Division  
Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Client Sample ID: Northwest TCLP

Lab Sample ID: 660-56490-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	57		10	8.4	ug/L	1		8260B	TCLP
Barium	0.058	I	0.50	0.030	mg/L	1		6010B	TCLP

6

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

## Client Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Client Sample ID: Northwest TCLP

Lab Sample ID: 660-56490-1

Date Collected: 09/11/13 15:00

Matrix: Solid

Date Received: 09/13/13 10:00

### Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			09/19/13 13:10	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			09/19/13 13:10	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			09/19/13 13:10	1
2-Butanone (MEK)	57		10	8.4	ug/L			09/19/13 13:10	1
Benzene	0.50	U	1.0	0.50	ug/L			09/19/13 13:10	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			09/19/13 13:10	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			09/19/13 13:10	1
Chloroform	0.90	U	1.0	0.90	ug/L			09/19/13 13:10	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			09/19/13 13:10	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			09/19/13 13:10	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			09/19/13 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		70 - 130		09/19/13 13:10	1
Dibromofluoromethane	90		70 - 130		09/19/13 13:10	1
Toluene-d8 (Surr)	95		70 - 130		09/19/13 13:10	1

### Method: 8270C - TCLP Semivolatiles - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0060	U	0.050	0.0060	mg/L		09/17/13 09:20	09/18/13 22:23	1
2,4,5-Trichlorophenol	0.011	U	0.050	0.011	mg/L		09/17/13 09:20	09/18/13 22:23	1
2,4,6-Trichlorophenol	0.0095	U	0.050	0.0095	mg/L		09/17/13 09:20	09/18/13 22:23	1
2,4-Dinitrotoluene	0.0046	U	0.050	0.0046	mg/L		09/17/13 09:20	09/18/13 22:23	1
2-Methylphenol	0.012	U	0.050	0.012	mg/L		09/17/13 09:20	09/18/13 22:23	1
3 & 4 Methylphenol	0.012	U	0.050	0.012	mg/L		09/17/13 09:20	09/18/13 22:23	1
Hexachlorobenzene	0.0086	U	0.050	0.0086	mg/L		09/17/13 09:20	09/18/13 22:23	1
Hexachlorobutadiene	0.0050	U	0.060	0.0050	mg/L		09/17/13 09:20	09/18/13 22:23	1
Hexachloroethane	0.0043	U	0.050	0.0043	mg/L		09/17/13 09:20	09/18/13 22:23	1
Nitrobenzene	0.0095	U	0.050	0.0095	mg/L		09/17/13 09:20	09/18/13 22:23	1
Pentachlorophenol	0.0075	U	0.075	0.0075	mg/L		09/17/13 09:20	09/18/13 22:23	1
Pyridine	0.0080	U	0.25	0.0080	mg/L		09/17/13 09:20	09/18/13 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	33		29 - 143	09/17/13 09:20	09/18/13 22:23	1
2-Fluorobiphenyl	50		36 - 124	09/17/13 09:20	09/18/13 22:23	1
2-Fluorophenol	30		29 - 121	09/17/13 09:20	09/18/13 22:23	1
Nitrobenzene-d5	63		34 - 130	09/17/13 09:20	09/18/13 22:23	1
Terphenyl-d14	17		14 - 148	09/17/13 09:20	09/18/13 22:23	1
Phenol-d5	28		25 - 128	09/17/13 09:20	09/18/13 22:23	1

### Method: 8081A - TCLP Pesticides - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0034	U	0.025	0.0034	mg/L		09/17/13 09:22	09/17/13 18:23	1
Endrin	0.00061	U	0.0050	0.00061	mg/L		09/17/13 09:22	09/17/13 18:23	1
gamma-BHC (Lindane)	0.00021	U	0.0025	0.00021	mg/L		09/17/13 09:22	09/17/13 18:23	1
Heptachlor	0.00036	U	0.0025	0.00036	mg/L		09/17/13 09:22	09/17/13 18:23	1
Heptachlor epoxide	0.00022	U	0.0025	0.00022	mg/L		09/17/13 09:22	09/17/13 18:23	1
Methoxychlor	0.00044	U	0.025	0.00044	mg/L		09/17/13 09:22	09/17/13 18:23	1
Toxaphene	0.019	U	0.25	0.019	mg/L		09/17/13 09:22	09/17/13 18:23	1

TestAmerica Tampa

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### Client Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Client Sample ID: Northwest TCLP

Lab Sample ID: 660-56490-1

Date Collected: 09/11/13 15:00

Matrix: Solid

Date Received: 09/13/13 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		30 - 150	09/17/13 09:22	09/17/13 18:23	1
Tetrachloro-m-xylene	75		30 - 150	09/17/13 09:22	09/17/13 18:23	1

**Method: 8151 - TCLP Herbicides - TCLP**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0075	U	0.025	0.0075	mg/L		09/17/13 13:46	09/18/13 15:27	1
Silvex (2,4,5-TP)	0.0016	U	0.025	0.0016	mg/L		09/17/13 13:46	09/18/13 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	68		33 - 130	09/17/13 13:46	09/18/13 15:27	1

**Method: 6010B - TCLP RCRA Metals - TCLP**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	1.0	0.12	mg/L		09/16/13 07:54	09/16/13 13:13	1
Barium	0.058	I	0.50	0.030	mg/L		09/16/13 07:54	09/16/13 13:13	1
Cadmium	0.018	U	0.50	0.018	mg/L		09/16/13 07:54	09/16/13 13:13	1
Chromium	0.050	U	1.0	0.050	mg/L		09/16/13 07:54	09/16/13 13:13	1
Lead	0.040	U	1.0	0.040	mg/L		09/16/13 07:54	09/16/13 13:13	1
Selenium	0.15	U	0.50	0.15	mg/L		09/16/13 07:54	09/16/13 13:13	1
Silver	0.050	U	0.50	0.050	mg/L		09/16/13 07:54	09/16/13 13:13	1

**Method: 7470A - TCLP Mercury - TCLP**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00050	U	0.00070	0.00050	mg/L		09/16/13 11:46	09/16/13 13:41	1

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TestAmerica Tampa

## Surrogate Summary

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
LB 660-141579/8 LB	Method Blank	98	96	90
LCS 660-141579/5	Lab Control Sample	104	91	93
MB 660-141579/7	Method Blank	99	97	88

**Surrogate Legend**

BFB = 4-Bromofluorobenzene  
 DBFM = Dibromofluoromethane  
 TOL = Toluene-d8 (Surr)

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### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
660-56488-C-1 DU	Duplicate	94	96	90
660-56488-C-1 MS	Matrix Spike	100	92	100
660-56490-1	Northwest TCLP	95	90	95

**Surrogate Legend**

BFB = 4-Bromofluorobenzene  
 DBFM = Dibromofluoromethane  
 TOL = Toluene-d8 (Surr)

### Method: 8270C - TCLP Semivolatiles

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (29-143)	FBP (36-124)	2FP (29-121)	NBZ (34-130)	TPH (14-148)	PHL (25-128)
LCS 660-141454/2-A	Lab Control Sample	58	72	30	81	73	27
MB 660-141454/1-A	Method Blank	77	78	60	90	91	56

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol  
 FBP = 2-Fluorobiphenyl  
 2FP = 2-Fluorophenol  
 NBZ = Nitrobenzene-d5  
 TPH = Terphenyl-d14  
 PHL = Phenol-d5

### Method: 8270C - TCLP Semivolatiles

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (29-143)	FBP (36-124)	2FP (29-121)	NBZ (34-130)	TPH (14-148)	PHL (25-128)
660-56490-1	Northwest TCLP	33	50	30	63	17	28
660-56490-1 MS	Northwest TCLP	43	62	39	74	23	40
660-56490-1 MSD	Northwest TCLP	47	61	36	67	25	38

TestAmerica Tampa

## Surrogate Summary

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-66490-1

### Method: 8270C - TCLP Semivolatiles (Continued)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (29-143)	FBP (36-124)	2FP (29-121)	NBZ (34-130)	TPH (14-148)	PHL (25-128)
LB 660-141419/1-B LB	Method Blank	79	81	62	92	76	59

**Surrogate Legend**

- TBP = 2,4,6-Tribromophenol
- FBP = 2-Fluorobiphenyl
- 2FP = 2-Fluorophenol
- NBZ = Nitrobenzene-d5
- TPH = Terphenyl-d14
- PHL = Phenol-d5

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### Method: 8081A - TCLP Pesticides

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (30-150)	TCX1 (30-150)
LCS 660-141455/2-A	Lab Control Sample	106	79
MB 660-141455/1-A	Method Blank	123	81

**Surrogate Legend**

- DCB = DCB Decachlorobiphenyl
- TCX = Tetrachloro-m-xylene

### Method: 8081A - TCLP Pesticides

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (30-150)	TCX1 (30-150)
660-66489-A-1-G MS	Matrix Spike	95	78
660-66490-1	Northwest TCLP	88	75

**Surrogate Legend**

- DCB = DCB Decachlorobiphenyl
- TCX = Tetrachloro-m-xylene

### Method: 8081A - TCLP Pesticides

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (30-150)	TCX1 (30-150)
660-66489-A-1-H MSD	Matrix Spike Duplicate	100	79
LB 660-141419/1-C LB	Method Blank	148	95

**Surrogate Legend**

- DCB = DCB Decachlorobiphenyl
- TCX = Tetrachloro-m-xylene

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## Surrogate Summary

Client: Orange County Utilities Water Division  
Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Method: 8151 - TCLP Herbicides

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA2 (33-130)
LCS 660-141471/2-A	Lab Control Sample	105
MB 660-141471/1-A	Method Blank	70

#### Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

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Method: 8151 - TCLP Herbicides

Matrix: Solid

Prep Type: TCLP

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA2 (33-130)
660-56488-A-1-J MS	Matrix Spike	116
660-56488-A-1-K MSD	Matrix Spike Duplicate	111
660-56490-1	Northwest TCLP	68
LB 660-141419/1-D LB	Method Blank	40

#### Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

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### QC Sample Results

Client: Orange County Utilities Water Division  
Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB 660-141579/8 LB  
Matrix: Solid  
Analysis Batch: 141579

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			09/19/13 09:39	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			09/19/13 09:39	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			09/19/13 09:39	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			09/19/13 09:39	1
Benzene	0.50	U	1.0	0.50	ug/L			09/19/13 09:39	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			09/19/13 09:39	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			09/19/13 09:39	1
Chloroform	0.90	U	1.0	0.90	ug/L			09/19/13 09:39	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			09/19/13 09:39	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			09/19/13 09:39	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			09/19/13 09:39	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	98		70 - 130		09/19/13 09:39	1
Dibromofluoromethane	96		70 - 130		09/19/13 09:39	1
Toluene-d8 (Surr)	90		70 - 130		09/19/13 09:39	1

Lab Sample ID: MB 660-141579/7  
Matrix: Solid  
Analysis Batch: 141579

Client Sample ID: Method Blank  
Prep Type: Total/NA

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			09/19/13 09:22	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			09/19/13 09:22	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			09/19/13 09:22	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			09/19/13 09:22	1
Benzene	0.50	U	1.0	0.50	ug/L			09/19/13 09:22	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			09/19/13 09:22	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			09/19/13 09:22	1
Chloroform	0.90	U	1.0	0.90	ug/L			09/19/13 09:22	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			09/19/13 09:22	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			09/19/13 09:22	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			09/19/13 09:22	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	99		70 - 130		09/19/13 09:22	1
Dibromofluoromethane	97		70 - 130		09/19/13 09:22	1
Toluene-d8 (Surr)	88		70 - 130		09/19/13 09:22	1

Lab Sample ID: LCS 660-141579/5  
Matrix: Solid  
Analysis Batch: 141579

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1-Dichloroethene	10.0	7.52		ug/L		75	51 - 150
1,2-Dichloroethane	10.0	10.4		ug/L		104	70 - 130
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	70 - 130

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QC Sample Results

Client: Orange County Utilities Water Division  
Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 660-141579/5  
Matrix: Solid  
Analysis Batch: 141579

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	20.0	20.0		ug/L		100	83 - 140
Benzene	10.0	10.4		ug/L		104	68 - 134
Carbon tetrachloride	10.0	8.62		ug/L		86	61 - 134
Chlorobenzene	10.0	10.5		ug/L		105	70 - 130
Chloroform	10.0	9.95		ug/L		100	68 - 130
Tetrachloroethene	10.0	10.3		ug/L		103	50 - 143
Trichloroethene	10.0	9.41		ug/L		94	63 - 139
Vinyl chloride	10.0	7.77		ug/L		78	48 - 147

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Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	104		70 - 130
Dibromofluoromethane	91		70 - 130
Toluene-d8 (Surr)	93		70 - 130

Lab Sample ID: 660-56488-C-1 MS  
Matrix: Solid  
Analysis Batch: 141579

Client Sample ID: Matrix Spike  
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.45	U	10.0	7.76		ug/L		78	51 - 150
1,2-Dichloroethane	0.57	U	10.0	11.7		ug/L		117	70 - 130
1,4-Dichlorobenzene	0.52	U	10.0	11.0		ug/L		110	70 - 130
2-Butanone (MEK)	140	LJ3	20.0	188	LJ3	ug/L		247	63 - 140
Benzene	0.50	U	10.0	11.5		ug/L		115	68 - 134
Carbon tetrachloride	0.42	U	10.0	9.05		ug/L		90	61 - 134
Chlorobenzene	0.63	U	10.0	11.2		ug/L		112	70 - 130
Chloroform	0.90	U	10.0	11.2		ug/L		112	68 - 130
Tetrachloroethene	0.50	U	10.0	10.9		ug/L		109	50 - 143
Trichloroethene	0.50	U	10.0	10.3		ug/L		103	63 - 139
Vinyl chloride	0.50	U	10.0	8.30		ug/L		83	48 - 147

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	92		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: 660-56488-C-1 DU  
Matrix: Solid  
Analysis Batch: 141579

Client Sample ID: Duplicate  
Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
1,1-Dichloroethene	0.45	U	0.45	U	ug/L		NC	30
1,2-Dichloroethane	0.57	U	0.57	U	ug/L		NC	30
1,4-Dichlorobenzene	0.52	U	0.52	U	ug/L		NC	30
2-Butanone (MEK)	140	LJ3	148	L	ug/L		7	30
Benzene	0.50	U	0.50	U	ug/L		NC	30
Carbon tetrachloride	0.42	U	0.42	U	ug/L		NC	30
Chlorobenzene	0.63	U	0.63	U	ug/L		NC	30

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### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

**Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)**

Lab Sample ID: 660-56488-C-1 DU  
 Matrix: Solid  
 Analysis Batch: 141579

Client Sample ID: Duplicate  
 Prep Type: TCLP

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Chloroform	0.90	U	0.90	U	ug/L		NC	30
Tetrachloroethene	0.50	U	0.50	U	ug/L		NC	30
Trichloroethene	0.50	U	0.50	U	ug/L		NC	30
Vinyl chloride	0.50	U	0.50	U	ug/L		NC	30

Surrogate	DU		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	94		70 - 130
Dibromofluoromethane	96		70 - 130
Toluene-d8 (Surr)	90		70 - 130



**Method: 8270C - TCLP Semivolatiles**

Lab Sample ID: MB 660-141454/1-A  
 Matrix: Solid  
 Analysis Batch: 141515

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 141454

Analyte	MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	0.0060	U	0.050	0.0060	mg/L		09/17/13 09:20	09/18/13 20:59	1
2,4,5-Trichlorophenol	0.011	U	0.050	0.011	mg/L		09/17/13 09:20	09/18/13 20:59	1
2,4,6-Trichlorophenol	0.0095	U	0.050	0.0095	mg/L		09/17/13 09:20	09/18/13 20:59	1
2,4-Dinitrotoluene	0.0046	U	0.050	0.0046	mg/L		09/17/13 09:20	09/18/13 20:59	1
2-Methylphenol	0.012	U	0.050	0.012	mg/L		09/17/13 09:20	09/18/13 20:59	1
3 & 4 Methylphenol	0.012	U	0.050	0.012	mg/L		09/17/13 09:20	09/18/13 20:59	1
Hexachlorobenzene	0.0085	U	0.050	0.0085	mg/L		09/17/13 09:20	09/18/13 20:59	1
Hexachlorobutadiene	0.0050	U	0.050	0.0050	mg/L		09/17/13 09:20	09/18/13 20:59	1
Hexachloroethane	0.0043	U	0.050	0.0043	mg/L		09/17/13 09:20	09/18/13 20:59	1
Nitrobenzene	0.0095	U	0.050	0.0095	mg/L		09/17/13 09:20	09/18/13 20:59	1
Pentachlorophenol	0.0075	U	0.075	0.0075	mg/L		09/17/13 09:20	09/18/13 20:59	1
Pyndine	0.0080	U	0.25	0.0080	mg/L		09/17/13 09:20	09/18/13 20:59	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	77		29 - 143	09/17/13 09:20	09/18/13 20:59	1
2-Fluorobiphenyl	78		36 - 124	09/17/13 09:20	09/18/13 20:59	1
2-Fluorophenol	60		29 - 121	09/17/13 09:20	09/18/13 20:59	1
Nitrobenzene-d5	90		34 - 130	09/17/13 09:20	09/18/13 20:59	1
Terphenyl-d14	91		14 - 148	09/17/13 09:20	09/18/13 20:59	1
Phenol-d5	56		25 - 128	09/17/13 09:20	09/18/13 20:59	1

Lab Sample ID: LCS 660-141454/2-A  
 Matrix: Solid  
 Analysis Batch: 141515

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 141454

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,4-Dichlorobenzene	0.500	0.256		mg/L		51	38 - 130
2,4,5-Trichlorophenol	0.500	0.309		mg/L		62	48 - 130
2,4,6-Trichlorophenol	0.500	0.301		mg/L		60	47 - 131
2,4-Dinitrotoluene	0.500	0.407		mg/L		81	10 - 150

TestAmerica Tampa

### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

**Method: 8270C - TCLP Semivolatiles (Continued)**

Lab Sample ID: LCS 660-141454/2-A  
 Matrix: Solid  
 Analysis Batch: 141515

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 141454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	0.500	0.286		mg/L		57	40 - 130
3 & 4 Methylphenol	0.500	0.270		mg/L		54	48 - 130
Hexachlorobenzene	0.500	0.388		mg/L		77	35 - 136
Hexachlorobutadiene	0.500	0.261		mg/L		52	31 - 130
Hexachloroethane	0.500	0.236		mg/L		47	31 - 130
Nitrobenzene	0.500	0.433		mg/L		87	45 - 130
Pentachlorophenol	1.00	0.644		mg/L		64	30 - 134
Pyridine	0.500	0.0814	1	mg/L		16	10 - 130



Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	58		29 - 143
2-Fluorobiphenyl	72		36 - 124
2-Fluorophenol	30		29 - 121
Nitrobenzene-d5	81		34 - 130
Terphenyl-d14	73		14 - 148
Phenol-d5	27		25 - 128

Lab Sample ID: LB 660-141419/1-B LB  
 Matrix: Solid  
 Analysis Batch: 141515

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 141454

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0060	U	0.050	0.0060	mg/L		09/17/13 09:20	09/18/13 23:25	1
2,4,6-Trichlorophenol	0.011	U	0.050	0.011	mg/L		09/17/13 09:20	09/18/13 23:25	1
2,4,6-Trichlorophenol	0.0095	U	0.050	0.0095	mg/L		09/17/13 09:20	09/18/13 23:25	1
2,4-Dinitrotoluene	0.0046	U	0.050	0.0046	mg/L		09/17/13 09:20	09/18/13 23:25	1
2-Methylphenol	0.012	U	0.050	0.012	mg/L		09/17/13 09:20	09/18/13 23:25	1
3 & 4 Methylphenol	0.012	U	0.050	0.012	mg/L		09/17/13 09:20	09/18/13 23:25	1
Hexachlorobenzene	0.0085	U	0.050	0.0085	mg/L		09/17/13 09:20	09/18/13 23:25	1
Hexachlorobutadiene	0.0050	U	0.050	0.0050	mg/L		09/17/13 09:20	09/18/13 23:25	1
Hexachloroethane	0.0043	U	0.050	0.0043	mg/L		09/17/13 09:20	09/18/13 23:25	1
Nitrobenzene	0.0095	U	0.050	0.0095	mg/L		09/17/13 09:20	09/18/13 23:25	1
Pentachlorophenol	0.0075	U	0.075	0.0075	mg/L		09/17/13 09:20	09/18/13 23:25	1
Pyridine	0.0080	U	0.25	0.0080	mg/L		09/17/13 09:20	09/18/13 23:25	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	79		29 - 143	09/17/13 09:20	09/18/13 23:25	1
2-Fluorobiphenyl	81		36 - 124	09/17/13 09:20	09/18/13 23:25	1
2-Fluorophenol	62		29 - 121	09/17/13 09:20	09/18/13 23:25	1
Nitrobenzene-d5	92		34 - 130	09/17/13 09:20	09/18/13 23:25	1
Terphenyl-d14	76		14 - 148	09/17/13 09:20	09/18/13 23:25	1
Phenol-d5	59		25 - 128	09/17/13 09:20	09/18/13 23:25	1

TestAmerica Tampa

### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

**Method: 8270C - TCLP Semivolatiles (Continued)**

Lab Sample ID: 660-56490-1 MS  
 Matrix: Solid  
 Analysis Batch: 141515

Client Sample ID: Northwest TCLP  
 Prep Type: TCLP  
 Prep Batch: 141454

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,4-Dichlorobenzene	0.0060	U	0.500	0.332		mg/L		66	38 - 130
2,4,5-Trichlorophenol	0.011	U	0.500	0.299		mg/L		60	48 - 130
2,4,6-Trichlorophenol	0.0095	U	0.500	0.285		mg/L		57	47 - 131
2,4-Dinitrotoluene	0.0046	U	0.500	0.394		mg/L		79	10 - 150
2-Methylphenol	0.012	U	0.500	0.273		mg/L		55	40 - 130
3 & 4 Methylphenol	0.012	U	0.500	0.269		mg/L		54	48 - 130
Hexachlorobenzene	0.0085	U	0.500	0.394		mg/L		79	35 - 136
Hexachlorobutadiene	0.0050	U	0.500	0.352		mg/L		70	31 - 130
Hexachloroethane	0.0043	U	0.500	0.357		mg/L		71	31 - 130
Nitrobenzene	0.0095	U	0.500	0.389		mg/L		78	45 - 130
Pentachlorophenol	0.0075	U	1.00	0.802		mg/L		80	30 - 134
Pyridine	0.0080	U	0.500	0.138	I	mg/L		28	10 - 130



Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	43		29 - 143
2-Fluorobiphenyl	62		36 - 124
2-Fluorophenol	39		29 - 121
Nitrobenzene-d5	74		34 - 130
Terphenyl-d14	23		14 - 148
Phenol-d5	40		25 - 128

Lab Sample ID: 660-56490-1 MSD  
 Matrix: Solid  
 Analysis Batch: 141515

Client Sample ID: Northwest TCLP  
 Prep Type: TCLP  
 Prep Batch: 141454

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,4-Dichlorobenzene	0.0060	U	0.500	0.308		mg/L		62	38 - 130	7	35
2,4,5-Trichlorophenol	0.011	U	0.500	0.324		mg/L		65	48 - 130	8	35
2,4,6-Trichlorophenol	0.0095	U	0.500	0.317		mg/L		63	47 - 131	11	35
2,4-Dinitrotoluene	0.0046	U	0.500	0.431		mg/L		86	10 - 150	9	35
2-Methylphenol	0.012	U	0.500	0.261		mg/L		52	40 - 130	5	35
3 & 4 Methylphenol	0.012	U	0.500	0.261		mg/L		52	48 - 130	3	35
Hexachlorobenzene	0.0085	U	0.500	0.419		mg/L		84	35 - 136	6	35
Hexachlorobutadiene	0.0050	U	0.500	0.320		mg/L		64	31 - 130	9	35
Hexachloroethane	0.0043	U	0.500	0.333		mg/L		67	31 - 130	7	35
Nitrobenzene	0.0095	U	0.500	0.382		mg/L		78	45 - 130	2	35
Pentachlorophenol	0.0075	U	1.00	0.878		mg/L		88	30 - 134	9	35
Pyridine	0.0080	U	0.500	0.156	I	mg/L		31	10 - 130	12	35

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	47		29 - 143
2-Fluorobiphenyl	61		36 - 124
2-Fluorophenol	36		29 - 121
Nitrobenzene-d5	67		34 - 130
Terphenyl-d14	25		14 - 148
Phenol-d5	38		25 - 128

TestAmerica Tampa

### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Method: 8081A - TCLP Pesticides

Lab Sample ID: MB 660-141455/1-A  
 Matrix: Solid  
 Analysis Batch: 141477

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 141455

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlordane (technical)	0.0034	U	0.025	0.0034	mg/L		09/17/13 09:22	09/17/13 17:03	1
Endrin	0.00061	U	0.0050	0.00061	mg/L		09/17/13 09:22	09/17/13 17:03	1
gamma-BHC (Lindane)	0.00021	U	0.0025	0.00021	mg/L		09/17/13 09:22	09/17/13 17:03	1
Heptachlor	0.00036	U	0.0025	0.00036	mg/L		09/17/13 09:22	09/17/13 17:03	1
Heptachlor epoxide	0.00022	U	0.0025	0.00022	mg/L		09/17/13 09:22	09/17/13 17:03	1
Methoxychlor	0.00044	U	0.025	0.00044	mg/L		09/17/13 09:22	09/17/13 17:03	1
Toxaphene	0.019	U	0.25	0.019	mg/L		09/17/13 09:22	09/17/13 17:03	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	123		30 - 150	09/17/13 09:22	09/17/13 17:03	1
Tetrachloro-m-xylene	81		30 - 150	09/17/13 09:22	09/17/13 17:03	1

Lab Sample ID: LCS 660-141455/2-A  
 Matrix: Solid  
 Analysis Batch: 141477

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 141455

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Endrin	0.00500	0.00512		mg/L		102	49 - 130
gamma-BHC (Lindane)	0.00500	0.00473		mg/L		95	53 - 130
Heptachlor	0.00500	0.00463		mg/L		93	36 - 130
Heptachlor epoxide	0.00500	0.00482		mg/L		96	41 - 130
Methoxychlor	0.00500	0.00551	I	mg/L		110	45 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	106		30 - 150
Tetrachloro-m-xylene	79		30 - 150

Lab Sample ID: LB 660-141419/1-C LB  
 Matrix: Solid  
 Analysis Batch: 141477

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 141455

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlordane (technical)	0.0034	U	0.025	0.0034	mg/L		09/17/13 09:22	09/17/13 18:36	1
Endrin	0.00061	U	0.0050	0.00061	mg/L		09/17/13 09:22	09/17/13 18:36	1
gamma-BHC (Lindane)	0.00021	U	0.0025	0.00021	mg/L		09/17/13 09:22	09/17/13 18:36	1
Heptachlor	0.00036	U	0.0025	0.00036	mg/L		09/17/13 09:22	09/17/13 18:36	1
Heptachlor epoxide	0.00022	U	0.0025	0.00022	mg/L		09/17/13 09:22	09/17/13 18:36	1
Methoxychlor	0.00044	U	0.025	0.00044	mg/L		09/17/13 09:22	09/17/13 18:36	1
Toxaphene	0.019	U	0.25	0.019	mg/L		09/17/13 09:22	09/17/13 18:36	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	148		30 - 150	09/17/13 09:22	09/17/13 18:36	1
Tetrachloro-m-xylene	95		30 - 150	09/17/13 09:22	09/17/13 18:36	1

TestAmerica Tampa

### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Method: 8081A - TCLP Pesticides (Continued)

Lab Sample ID: 660-56489-A-1-G MS  
 Matrix: Solid  
 Analysis Batch: 141477

Client Sample ID: Matrix Spike  
 Prep Type: TCLP  
 Prep Batch: 141455

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Endrin	0.00061	U	0.00500	0.00471	I	mg/L		94	49 - 130
gamma-BHC (Lindane)	0.00021	U	0.00500	0.00432		mg/L		86	53 - 130
Heptachlor	0.00036	U	0.00500	0.00425		mg/L		85	36 - 130
Heptachlor epoxide	0.00022	U	0.00500	0.00436		mg/L		87	41 - 130
Methoxychlor	0.00044	U	0.00500	0.00503	I	mg/L		101	45 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	95		30 - 150
Tetrachloro-m-xylene	78		30 - 150



Lab Sample ID: 660-56489-A-1-H MSD  
 Matrix: Solid  
 Analysis Batch: 141477

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: TCLP  
 Prep Batch: 141455

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Endrin	0.00061	U	0.00500	0.00482	I	mg/L		96	49 - 130	2	30
gamma-BHC (Lindane)	0.00021	U	0.00500	0.00444		mg/L		89	53 - 130	3	30
Heptachlor	0.00036	U	0.00500	0.00442		mg/L		88	36 - 130	4	30
Heptachlor epoxide	0.00022	U	0.00500	0.00456		mg/L		91	41 - 130	4	30
Methoxychlor	0.00044	U	0.00500	0.00545	I	mg/L		109	45 - 130	8	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	100		30 - 150
Tetrachloro-m-xylene	79		30 - 150

Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 660-141471/1-A  
 Matrix: Solid  
 Analysis Batch: 141514

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 141471

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-D	0.0075	U	0.025	0.0075	mg/L		09/17/13 13:46	09/18/13 13:35	1
Silvex (2,4,5-TP)	0.0016	U	0.025	0.0016	mg/L		09/17/13 13:46	09/18/13 13:35	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4-Dichlorophenylacetic acid	70		33 - 130	09/17/13 13:46	09/18/13 13:35	1

Lab Sample ID: LCS 660-141471/2-A  
 Matrix: Solid  
 Analysis Batch: 141514

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 141471

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
2,4-D	0.0400	0.0291		mg/L		73	10 - 141
Silvex (2,4,5-TP)	0.0400	0.0344		mg/L		86	10 - 138

TestAmerica Tampa

### QC Sample Results

Client: Orange County Utilities Water Division  
Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

**Method: 8151 - TCLP Herbicides (Continued)**

Lab Sample ID: LCS 660-141471/2-A  
Matrix: Solid  
Analysis Batch: 141514

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 141471

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	105		33 - 130

Lab Sample ID: LB 660-141419/1-D LB  
Matrix: Solid  
Analysis Batch: 141514

Client Sample ID: Method Blank  
Prep Type: TCLP  
Prep Batch: 141471

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-D	0.0075	U	0.025	0.0075	mg/L		09/17/13 13:46	09/18/13 14:07	1
Silvex (2,4,5-TP)	0.0016	U	0.025	0.0016	mg/L		09/17/13 13:46	09/18/13 14:07	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4-Dichlorophenylacetic acid	40		33 - 130	09/17/13 13:46	09/18/13 14:07	1

Lab Sample ID: 660-56488-A-1-J MS  
Matrix: Solid  
Analysis Batch: 141514

Client Sample ID: Matrix Spike  
Prep Type: TCLP  
Prep Batch: 141471

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
2,4-D	0.0075	U	0.0400	0.0381		mg/L		95	10 - 141
Silvex (2,4,5-TP)	0.0016	U	0.0400	0.0454		mg/L		114	10 - 138

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	116		33 - 130

Lab Sample ID: 660-56488-A-1-K MSD  
Matrix: Solid  
Analysis Batch: 141514

Client Sample ID: Matrix Spike Duplicate  
Prep Type: TCLP  
Prep Batch: 141471

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
				Result	Qualifier						
2,4-D	0.0075	U	0.0400	0.0339		mg/L		85	10 - 141	12	78
Silvex (2,4,5-TP)	0.0016	U	0.0400	0.0398		mg/L		99	10 - 138	13	66

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	111		33 - 130

**Method: 6010B - TCLP RCRA Metals**

Lab Sample ID: LCS 660-141420/2-A  
Matrix: Solid  
Analysis Batch: 141427

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 141420

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	5.00	5.10		mg/L		102	75 - 125
Barium	5.00	4.86		mg/L		97	75 - 125
Cadmium	5.00	5.11		mg/L		102	75 - 125
Chromium	5.00	5.29		mg/L		106	75 - 125
Lead	5.00	4.79		mg/L		96	75 - 125

TestAmerica Tampa

### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

**Method: 6010B - TCLP RCRA Metals (Continued)**

Lab Sample ID: LCS 660-141420/2-A  
 Matrix: Solid  
 Analysis Batch: 141427

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 141420

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Selenium	5.00	5.27		mg/L		105	75 - 125	
Silver	5.00	4.93		mg/L		99	75 - 125	

Lab Sample ID: LB 660-141416/1-B LB  
 Matrix: Solid  
 Analysis Batch: 141427

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 141420

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.12	U	1.0	0.12	mg/L		09/16/13 07:54	09/16/13 12:38	1
Barium	0.030	U	0.50	0.030	mg/L		09/16/13 07:54	09/16/13 12:38	1
Cadmium	0.018	U	0.50	0.018	mg/L		09/16/13 07:54	09/16/13 12:38	1
Chromium	0.050	U	1.0	0.050	mg/L		09/16/13 07:54	09/16/13 12:38	1
Lead	0.040	U	1.0	0.040	mg/L		09/16/13 07:54	09/16/13 12:38	1
Selenium	0.15	U	0.50	0.15	mg/L		09/16/13 07:54	09/16/13 12:38	1
Silver	0.050	U	0.50	0.050	mg/L		09/16/13 07:54	09/16/13 12:38	1

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Lab Sample ID: 660-56504-B-1-C MS  
 Matrix: Solid  
 Analysis Batch: 141427

Client Sample ID: Matrix Spike  
 Prep Type: TCLP  
 Prep Batch: 141420

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	
Arsenic	0.12	U	5.00	5.24		mg/L		105	75 - 125	
Barium	0.059	I	5.00	4.90		mg/L		97	75 - 125	
Cadmium	0.018	U	5.00	5.17		mg/L		103	75 - 125	
Chromium	0.050	U	5.00	5.27		mg/L		105	75 - 125	
Lead	1.5		5.00	6.28		mg/L		95	75 - 125	
Selenium	0.15	U	5.00	5.30		mg/L		106	75 - 125	
Silver	0.050	U	5.00	4.97		mg/L		99	75 - 125	

Lab Sample ID: 660-56504-B-1-D MSD  
 Matrix: Solid  
 Analysis Batch: 141427

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: TCLP  
 Prep Batch: 141420

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	
				Result	Qualifier				Limits		RPD	Limit
Arsenic	0.12	U	5.00	5.27		mg/L		105	75 - 125	1	20	
Barium	0.059	I	5.00	4.91		mg/L		97	75 - 125	0	20	
Cadmium	0.018	U	5.00	5.22		mg/L		104	75 - 125	1	20	
Chromium	0.050	U	5.00	5.33		mg/L		107	75 - 125	1	20	
Lead	1.5		5.00	6.29		mg/L		95	75 - 125	0	20	
Selenium	0.15	U	5.00	5.40		mg/L		108	75 - 125	2	20	
Silver	0.050	U	5.00	5.02		mg/L		100	75 - 125	1	20	

TestAmerica Tampa

### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Method: 7470A - TCLP Mercury

Lab Sample ID: LCS 660-141436/13-A  
 Matrix: Solid  
 Analysis Batch: 141443

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 141436

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00140	0.00157		mg/L		112	80 - 120

Lab Sample ID: LB 660-141416/1-C LB  
 Matrix: Solid  
 Analysis Batch: 141443

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 141436

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00050	U	0.00070	0.00050	mg/L		09/16/13 11:46	09/16/13 13:29	1



Lab Sample ID: 660-56488-A-1-E MS  
 Matrix: Solid  
 Analysis Batch: 141443

Client Sample ID: Matrix Spike  
 Prep Type: TCLP  
 Prep Batch: 141436

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00050	U	0.00140	0.00143		mg/L		102	80 - 120

Lab Sample ID: 660-56488-A-1-F MSD  
 Matrix: Solid  
 Analysis Batch: 141443

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: TCLP  
 Prep Batch: 141436

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Mercury	0.00050	U	0.00140	0.00144		mg/L		103	80 - 120	1	20

TestAmerica Tampa



## QC Association Summary

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

### GC/MS VOA

Leach Batch: 141475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56490-1	Northwest TCLP	TCLP	Solid	1311	

Analysis Batch: 141579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56488-C-1 DU	Duplicate	TCLP	Solid	8260B	
660-56488-C-1 MS	Matrix Spike	TCLP	Solid	8260B	
660-56490-1	Northwest TCLP	TCLP	Solid	8260B	141475
LB 660-141579/B LB	Method Blank	Total/NA	Solid	8260B	
LCS 660-141579/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 660-141579/7	Method Blank	Total/NA	Solid	8260B	

### GC/MS Semi VOA

Leach Batch: 141419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56490-1	Northwest TCLP	TCLP	Solid	1311	
660-56490-1 MS	Northwest TCLP	TCLP	Solid	1311	
660-56490-1 MSD	Northwest TCLP	TCLP	Solid	1311	
LB 660-141419/1-B LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 141454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56490-1	Northwest TCLP	TCLP	Solid	3520C	141419
660-56490-1 MS	Northwest TCLP	TCLP	Solid	3520C	141419
660-56490-1 MSD	Northwest TCLP	TCLP	Solid	3520C	141419
LB 660-141419/1-B LB	Method Blank	TCLP	Solid	3520C	141419
LCS 660-141454/2-A	Lab Control Sample	Total/NA	Solid	3520C	
MB 660-141454/1-A	Method Blank	Total/NA	Solid	3520C	

Analysis Batch: 141515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56490-1	Northwest TCLP	TCLP	Solid	8270C	141454
660-56490-1 MS	Northwest TCLP	TCLP	Solid	8270C	141454
660-56490-1 MSD	Northwest TCLP	TCLP	Solid	8270C	141454
LB 660-141419/1-B LB	Method Blank	TCLP	Solid	8270C	141454
LCS 660-141454/2-A	Lab Control Sample	Total/NA	Solid	8270C	141454
MB 660-141454/1-A	Method Blank	Total/NA	Solid	8270C	141454

### GC Semi VOA

Leach Batch: 141419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56488-A-1-J MS	Matrix Spike	TCLP	Solid	1311	
660-56488-A-1-K MSD	Matrix Spike Duplicate	TCLP	Solid	1311	
660-56489-A-1-G MS	Matrix Spike	TCLP	Solid	1311	
660-56489-A-1-H MSD	Matrix Spike Duplicate	TCLP	Solid	1311	
660-56490-1	Northwest TCLP	TCLP	Solid	1311	
LB 660-141419/1-C LB	Method Blank	TCLP	Solid	1311	
LB 660-141419/1-D LB	Method Blank	TCLP	Solid	1311	

TestAmerica Tampa

## QC Association Summary

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

### GC Semi VOA (Continued)

#### Prep Batch: 141455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56489-A-1-G MS	Matrix Spike	TCLP	Solid	3510C	141419
660-56489-A-1-H MSD	Matrix Spike Duplicate	TCLP	Solid	3510C	141419
660-56490-1	Northwest TCLP	TCLP	Solid	3510C	141419
LB 660-141419/1-C LB	Method Blank	TCLP	Solid	3510C	141419
LCS 660-141455/2-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 660-141455/1-A	Method Blank	Total/NA	Solid	3510C	

#### Prep Batch: 141471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56488-A-1-J MS	Matrix Spike	TCLP	Solid	8151A	141419
660-56488-A-1-K MSD	Matrix Spike Duplicate	TCLP	Solid	8151A	141419
660-56490-1	Northwest TCLP	TCLP	Solid	8151A	141419
LB 660-141419/1-D LB	Method Blank	TCLP	Solid	8151A	141419
LCS 660-141471/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 660-141471/1-A	Method Blank	Total/NA	Solid	8151A	

#### Analysis Batch: 141477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56489-A-1-G MS	Matrix Spike	TCLP	Solid	8081A	141455
660-56489-A-1-H MSD	Matrix Spike Duplicate	TCLP	Solid	8081A	141455
660-56490-1	Northwest TCLP	TCLP	Solid	8081A	141455
LB 660-141419/1-C LB	Method Blank	TCLP	Solid	8081A	141455
LCS 660-141455/2-A	Lab Control Sample	Total/NA	Solid	8081A	141455
MB 660-141455/1-A	Method Blank	Total/NA	Solid	8081A	141455

#### Analysis Batch: 141514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56488-A-1-J MS	Matrix Spike	TCLP	Solid	8151	141471
660-56488-A-1-K MSD	Matrix Spike Duplicate	TCLP	Solid	8151	141471
660-56490-1	Northwest TCLP	TCLP	Solid	8151	141471
LB 660-141419/1-D LB	Method Blank	TCLP	Solid	8151	141471
LCS 660-141471/2-A	Lab Control Sample	Total/NA	Solid	8151	141471
MB 660-141471/1-A	Method Blank	Total/NA	Solid	8151	141471

### Metals

#### Leach Batch: 141416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56488-A-1-E MS	Matrix Spike	TCLP	Solid	1311	
660-56488-A-1-F MSD	Matrix Spike Duplicate	TCLP	Solid	1311	
660-56490-1	Northwest TCLP	TCLP	Solid	1311	
660-56504-B-1-C MS	Matrix Spike	TCLP	Solid	1311	
660-56504-B-1-D MSD	Matrix Spike Duplicate	TCLP	Solid	1311	
LB 660-141416/1-B LB	Method Blank	TCLP	Solid	1311	
LB 660-141416/1-C LB	Method Blank	TCLP	Solid	1311	

#### Prep Batch: 141420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56490-1	Northwest TCLP	TCLP	Solid	3010A	141416
660-56504-B-1-C MS	Matrix Spike	TCLP	Solid	3010A	141416

TestAmerica Tampa

## QC Association Summary

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

### Metals (Continued)

#### Prep Batch: 141420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56504-B-1-D MSD	Matrix Spike Duplicate	TCLP	Solid	3010A	141416
LB 660-141416/1-B LB	Method Blank	TCLP	Solid	3010A	141416
LCS 660-141420/2-A	Lab Control Sample	Total/NA	Solid	3010A	

#### Analysis Batch: 141427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56490-1	Northwest TCLP	TCLP	Solid	6010B	141420
660-56504-B-1-C MS	Matrix Spike	TCLP	Solid	6010B	141420
660-56504-B-1-D MSD	Matrix Spike Duplicate	TCLP	Solid	6010B	141420
LB 660-141416/1-B LB	Method Blank	TCLP	Solid	6010B	141420
LCS 660-141420/2-A	Lab Control Sample	Total/NA	Solid	6010B	141420

#### Prep Batch: 141436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56488-A-1-E MS	Matrix Spike	TCLP	Solid	7470A	141416
660-56488-A-1-F MSD	Matrix Spike Duplicate	TCLP	Solid	7470A	141416
660-56490-1	Northwest TCLP	TCLP	Solid	7470A	141416
LB 660-141416/1-C LB	Method Blank	TCLP	Solid	7470A	141416
LCS 660-141436/13-A	Lab Control Sample	Total/NA	Solid	7470A	

#### Analysis Batch: 141443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-56488-A-1-E MS	Matrix Spike	TCLP	Solid	7470A	141436
660-56488-A-1-F MSD	Matrix Spike Duplicate	TCLP	Solid	7470A	141436
660-56490-1	Northwest TCLP	TCLP	Solid	7470A	141436
LB 660-141416/1-C LB	Method Blank	TCLP	Solid	7470A	141436
LCS 660-141436/13-A	Lab Control Sample	Total/NA	Solid	7470A	141436

TestAmerica Tampa

## Lab Chronicle

Client: Orange County Utilities Water Division  
 Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Client Sample ID: Northwest TCLP

Lab Sample ID: 660-56490-1

Date Collected: 09/11/13 15:00

Matrix: Solid

Date Received: 09/13/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			141475	09/16/13 14:45	TGP	TAL TAM
TCLP	Analysis	8260B		1	141579	09/19/13 13:10	ECC	TAL TAM
TCLP	Leach	1311			141419	09/16/13 07:48	GAF	TAL TAM
TCLP	Prep	3520C			141454	09/17/13 09:20	AG1	TAL TAM
TCLP	Analysis	8270C		1	141515	09/18/13 22:23	SCC	TAL TAM
TCLP	Analysis	8081A		1	141477	09/17/13 18:23	JB1	TAL TAM
TCLP	Leach	1311			141419	09/16/13 07:48	GAF	TAL TAM
TCLP	Prep	3510C			141455	09/17/13 09:22	AG1	TAL TAM
TCLP	Leach	1311			141419	09/16/13 07:48	GAF	TAL TAM
TCLP	Analysis	8151		1	141514	09/18/13 15:27	TGP	TAL TAM
TCLP	Prep	8151A			141471	09/17/13 13:46	SC1	TAL TAM
TCLP	Leach	1311			141416	09/13/13 16:30	SR1	TAL TAM
TCLP	Prep	3010A			141420	09/16/13 07:54	SR1	TAL TAM
TCLP	Analysis	6010B		1	141427	09/16/13 13:13	GAF	TAL TAM
TCLP	Leach	1311			141416	09/13/13 16:30	SR1	TAL TAM
TCLP	Prep	7470A			141436	09/16/13 11:46	RAG	TAL TAM
TCLP	Analysis	7470A		1	141443	09/16/13 13:41	RAG	TAL TAM

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

TestAmerica Tampa

## Certification Summary

Client: Orange County Utilities Water Division  
Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

### Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-14
Florida	NELAP	4	E84282	06-30-14
Georgia	State Program	4	905	06-30-14
USDA	Federal		P330-11-00177	04-20-14

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TestAmerica Tampa

## Method Summary

Client: Orange County Utilities Water Division  
Project/Site: Northwest Sludge

TestAmerica Job ID: 660-56490-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL TAM
8270C	TCLP Semivolatiles	SW846	TAL TAM
8081A	TCLP Pesticides	SW846	TAL TAM
8151	TCLP Herbicides	SW846	TAL TAM
6010B	TCLP RCRA Metals	SW846	TAL TAM
7470A	TCLP Mercury	SW846	TAL TAM

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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TestAmerica Tampa

**TestAmerica Orlando**  
 8010 Sunport Drive Suite 115  
 Orlando, FL 32809  
 Phone (800) 851-2560 Fax (407) 856-0885

**Chain of Custody Record**

**TestAmerica**  
 www.testamericainc.com

**Client Information**  
 Client Contact: Ms. Sofia Williams Phone: \_\_\_\_\_  
 Company: Orange County Utilities Water Division  
 Address: 9124 Curry Ford Road  
 City: Orlando State: FL Zip: 32825  
 Phone: 407-264-9550(Tel)  
 Email: sofia.williams@ocwi.net  
 Project Name: Northwest TOLP  
 SSSUW: \_\_\_\_\_

**Lab Info**  
 Lab No: \_\_\_\_\_  
 Hornsby: Jess  
 E-Mail: jess.hornsby@testamericainc.com

**Carrier Tracking No.:** \_\_\_\_\_

**COCLIN#** 850-50467-8830.1  
**Page** 1 of 1  
**Job #** \_\_\_\_\_

**Analysis Requested**

Due date requested: \_\_\_\_\_  
 TAT Requested (days): \_\_\_\_\_

PO #: \_\_\_\_\_  
 Purchase Order Requested: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 SSSUW: \_\_\_\_\_

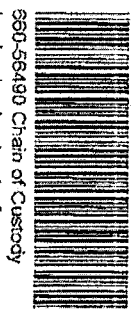
**Field Filtered Sample Type or No.**

8081A, 8181A, 8270C	<input checked="" type="checkbox"/>
8280B - TOLP Volatiles	<input checked="" type="checkbox"/>
8010B, 7470A	<input checked="" type="checkbox"/>

**Preservation Codes:**

A - HCl	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsV6O2
D - Nitric Acid	P - Na2O4S
E - NH4SO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Acetic Acid	S - H2SO4
H - Acetic Acid	T - TSP Decedehydrate
I - Ice	U - Acetone
J - DI Water	V - WCA
K - EDTA	W - Ph 4.5
L - EDA	Z - other (specify)
Other:	

Sample ID	Sample Date	Sample Time	Sample Type (Co-Comp, Grab)	Matrix (Invert, Swab, Other)	Field Filtered Sample Type or No.	Total Number of Containers	Special Instructions/Note
9113	1500	5	Solid		8081A, 8181A, 8270C		



**Possible Hazard Identification**

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested: I, II, III, IV, Other (Specify) \_\_\_\_\_

Empty Kit Relinquished by: Bohler

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**

Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/Note: \_\_\_\_\_

**Relinquished by:** [Signature] Date: 8/28/13 Time: 15:00 Method of Signature: \_\_\_\_\_

**Received by:** [Signature] Date/Time: 9-12-2010 Company: \_\_\_\_\_

**Relinquished by:** [Signature] Date/Time: 9/12/13 12:35 Company: \_\_\_\_\_

**Received by:** [Signature] Date/Time: 9/12/13 18:35 Company: \_\_\_\_\_

**Relinquished by:** [Signature] Date/Time: 9/13/13 15:00 Company: \_\_\_\_\_

**Received by:** [Signature] Date/Time: 9/13/13 15:00 Company: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Orange County Utilities Water Division

Job Number: 660-56490-1

Login Number: 56490

List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Tampa  
6712 Benjamin Road  
Suite 100  
Tampa, FL 33634  
Tel: (813)885-7427

TestAmerica Job ID: 660-50059-1  
Client Project/Site: EWRf TCLP

For  
Orange County Utilities Water Division  
9124 Curry Ford Road  
Orlando, Florida 32825

Attn: Ms. Sonja Williams

Authorized for release by:  
9/25/2012 8:22:37 PM

Jess Hornsby  
Project Manager I  
jess.hornsby@testamericainc.com

### LINKS

Review your project  
results through  
**Total Access**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory*

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# Sample Summary

Client: Orange County Utilities Water Division  
Project/Site: EWRP TCLP

TestAmerica Job ID: 660-50059-1



Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-50059-1	EWRP	Solid	09/13/12 05:00	09/14/12 13:20

## Definitions/Glossary

Client Orange County Utilities Water Division  
Project/Site: EWRF TCLP

TestAmerica Job ID: 680-50059-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

#### GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

#### GC Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected. The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

### Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
D	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Case Narrative

Client: Orange County Utilities Water Division  
Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

Job ID: 660-50059-1

Laboratory: TestAmerica Tampa

### Narrative

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### Receipt

The sample was received on 9/14/2012 1:20 PM; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.2°C.

### GC/MS VOA

No analytical or quality issues were noted.

### GC/MS Semi VOA

No analytical or quality issues were noted.

### GC Semi VOA

No analytical or quality issues were noted.

### Metals

No analytical or quality issues were noted.

### Organic Prep

No analytical or quality issues were noted.

### Detection Summary

Client: Orange County Utilities Water Division  
Project/Site: EWRP TCLP

TestAmerica Job ID: 660-50059-1

Client Sample ID: EWRP

Lab Sample ID: 660-50059-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	200		100	84	ug/L	10			6260B	TCLP
Bartoni	0.23	I	0.50	0.030	mg/L	1			6010B	TCLP



### Client Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: EWRf TCLP

TestAmerica Job ID: 660-50059-1

Client Sample ID: EWRf

Lab Sample ID: 660-50059-1

Date Collected: 09/13/12 05:00

Matrix: Solid

Date Received: 09/14/12 13:20

**Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	4.5	U	10	4.5	ug/L		09/20/12 17:48	09/20/12 17:48	10
1,2-Dichloroethane	5.7	U	10	5.7	ug/L		09/20/12 17:48	09/20/12 17:48	10
1,4-Dichlorobenzene	5.2	U	10	5.2	ug/L		09/20/12 17:48	09/20/12 17:48	10
2-Butanone (MEK)	200		100	84	ug/L		09/20/12 17:48	09/20/12 17:48	10
Benzene	5.0	U	10	5.0	ug/L		09/20/12 17:48	09/20/12 17:48	10
Carbon tetrachloride	4.2	U	10	4.2	ug/L		09/20/12 17:48	09/20/12 17:48	10
Chlorobenzene	6.3	U	10	6.3	ug/L		09/20/12 17:48	09/20/12 17:48	10
Chloroform	9.0	U	10	9.0	ug/L		09/20/12 17:48	09/20/12 17:48	10
Tetrachloroethene	5.0	U	10	5.0	ug/L		09/20/12 17:48	09/20/12 17:48	10
Trichloroethene	5.0	U	10	5.0	ug/L		09/20/12 17:48	09/20/12 17:48	10
Vinyl chloride	5.0	U	10	5.0	ug/L		09/20/12 17:48	09/20/12 17:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130		09/20/12 17:48	10
Di-bromofluoromethane	101		70 - 130		09/20/12 17:48	10
Toluene-d8 (Surr)	99		70 - 130		09/20/12 17:48	10

**Method: 8270C TCLP Semivolatiles - TCLP**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0060	U	0.050	0.0060	mg/L		09/18/12 13:45	09/20/12 13:59	1
2,4,5-Trichlorophenol	0.011	U	0.050	0.011	mg/L		09/18/12 13:45	09/20/12 13:59	1
2,4,6-Trichlorophenol	0.0095	U	0.050	0.0095	mg/L		09/18/12 13:45	09/20/12 13:59	1
2,4-Dinitrotoluene	0.0046	U	0.050	0.0046	mg/L		09/18/12 13:45	09/20/12 13:59	1
2-Methylphenol	0.012	U	0.050	0.012	mg/L		09/18/12 13:45	09/20/12 13:59	1
3 & 4 Methylphenol	0.012	U	0.050	0.012	mg/L		09/18/12 13:45	09/20/12 13:59	1
Hexachlorobenzene	0.0085	U	0.050	0.0085	mg/L		09/18/12 13:45	09/20/12 13:59	1
Hexachlorocyclopentadiene	0.0050	U	0.050	0.0050	mg/L		09/18/12 13:45	09/20/12 13:59	1
Hexachloroethane	0.0043	U	0.050	0.0043	mg/L		09/18/12 13:45	09/20/12 13:59	1
Nitrobenzene	0.0095	U	0.050	0.0095	mg/L		09/18/12 13:45	09/20/12 13:59	1
Pentachlorophenol	0.0075	U	0.075	0.0075	mg/L		09/18/12 13:45	09/20/12 13:59	1
Pyridine	0.0080	U	0.25	0.0080	mg/L		09/18/12 13:45	09/20/12 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	71		29 - 143	09/18/12 13:45	09/20/12 13:59	1
2-Fluorobiphenyl	81		38 - 124	09/18/12 13:45	09/20/12 13:59	1
2-Fluorophenol	62		29 - 121	09/18/12 13:45	09/20/12 13:59	1
Nitrobenzene-d5	91		34 - 130	09/18/12 13:45	09/20/12 13:59	1
Phenol-d6 (Surr)	58		25 - 128	09/18/12 13:45	09/20/12 13:59	1
Terphenyl-d14	42		14 - 148	09/18/12 13:45	09/20/12 13:59	1

**Method: 8081A TCLP Pesticides - TCLP**

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	0.0034	U	0.025	0.0034	mg/L		09/20/12 09:13	09/20/12 19:38	1
Endrin	0.00061	U	0.0050	0.00061	mg/L		09/20/12 09:13	09/20/12 19:38	1
gamma-BHC (Lindane)	0.00021	U	0.0025	0.00021	mg/L		09/20/12 09:13	09/20/12 19:38	1
Heptachlor	0.00036	U	0.0025	0.00036	mg/L		09/20/12 09:13	09/20/12 19:38	1
Heptachlor epoxide	0.00022	U	0.0025	0.00022	mg/L		09/20/12 09:13	09/20/12 19:38	1
Methoxychlor	0.00044	U	0.025	0.00044	mg/L		09/20/12 09:13	09/20/12 19:38	1
Toxaphene	0.019	U	0.25	0.019	mg/L		09/20/12 09:13	09/20/12 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		30 - 150	09/20/12 09:13	09/20/12 19:38	1

### Client Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

Client Sample ID: EWRF

Lab Sample ID: 660-50059-1

Date Collected: 09/13/12 05:00

Matrix: Solid

Date Received: 09/14/12 13:20

Method: 8081A - TCLP Pesticides - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		30 - 150	09/20/12 09:13	09/20/12 19:38	1

Method: 8151 - TCLP Herbicides - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	0.0075	U	0.025	0.0075	mg/l		09/18/12 10:38	09/20/12 20:34	1
Silvex (2,4,5-TP)	0.0016	U	0.025	0.0016	mg/L		09/18/12 10:36	09/20/12 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	58		33 - 120	09/18/12 10:38	09/20/12 20:34	1

Method: 6010B - TCLP RCRA Metals - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.12	U	1.0	0.12	mg/L		09/18/12 09:20	09/18/12 14:37	1
Barium	0.23	U	0.50	0.030	mg/L		09/18/12 09:20	09/18/12 14:37	1
Cadmium	0.018	U	0.50	0.018	mg/L		09/18/12 09:20	09/18/12 14:37	1
Chromium	0.050	U	1.0	0.050	mg/L		09/18/12 09:20	09/18/12 14:37	1
Lead	0.040	U	1.0	0.040	mg/L		09/18/12 09:20	09/18/12 14:37	1
Selenium	0.15	U	0.50	0.15	mg/L		09/18/12 09:20	09/18/12 14:37	1
Silver	0.050	U	0.50	0.050	mg/L		09/18/12 09:20	09/18/12 14:37	1

Method: 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00036	U	0.00050	0.00036	mg/L		09/18/12 09:52	09/18/12 13:02	1



### Surrogate Summary

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
LB 660-129353/7 LB	Method Blank	99	99	100
LCS 660-129353/4	Lab Control Sample	99	100	100
MB 660-129353/8	Method Blank	98	100	101

**Surrogate Legend**

BFB = 4-Bromofluorobenzene  
 DBFM = Dibromofluoromethane  
 TOL = Toluene-d8 (Surr)

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
660-50059-1	EWRF	100	101	99
660-50059-1 MS	EWRF	97	95	101
660-50059-1 MSD	EWRF	99	102	101

**Surrogate Legend**

BFB = 4-Bromofluorobenzene  
 DBFM = Dibromofluoromethane  
 TOL = Toluene-d8 (Surr)

Method: 8270C - TCLP Semivolatiles

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (29-143)	FBP (36-124)	2FP (29-121)	NBZ (34-130)	PHL (25-128)	TPH (14-148)
LCS 660-129196/2-A	Lab Control Sample	97	86	69	95	57	90
MB 660-129196/1-A	Method Blank	99	95	70	94	58	80

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol  
 FBP = 2-Fluorobiphenyl  
 2FP = 2-Fluorophenol  
 NBZ = Nitrobenzene-d5  
 PHL = Phenol-d6 (Surr)  
 TPH = Terphenyl-d14

Method: 8270C - TCLP Semivolatiles

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (29-143)	FBP (36-124)	2FP (29-121)	NBZ (34-130)	PHL (25-128)	TPH (14-148)
660-50059-1	EWRF	71	81	62	91	58	42
660-50059-1 MS	EWRF	57	70	49	76	45	35
660-50059-1 MSD	EWRF	65	74	55	82	50	40
LB 660-129160/1-C LB	Method Blank	94	83	69	88	59	85

## Surrogate Summary

Client: Orange County Utilities Water Division  
Project/Site: EWRF TCLP

TestAmerica Job ID 860-50059-1

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol  
FBP = 2-Fluorobiphenyl  
2FP = 2-Fluorophenol  
NBZ = Nitrobenzene-d5  
PHL = Phenol-d6 (Surr)  
TPH = Tophenyl-d14

**Method: 8081A - TCLP Pesticides**

Matrix: Solid

Prep Type: Total/NA

8

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (30-160)	TCX2 (30-150)
LCS 660-129307/2-A	Lab Control Sample	93	72
MB 660-129307/1-A	Method Blank	94	73

**Surrogate Legend**

DCB = DCB Decachlorobiphenyl  
TCX = Tetrachloro-m-xylene

**Method: 8081A - TCLP Pesticides**

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (30-160)	TCX2 (30-150)
860-50059-1	EWRF	66	70
660-50061-B-1-J MS	Matrix Spike	66	59
660-50061-B-1-K MSD	Matrix Spike Duplicate	73	59
LB 660-129160/1-D LB	Method Blank	117	73

**Surrogate Legend**

DCB = DCB Decachlorobiphenyl  
TCX = Tetrachloro-m-xylene

**Method: 8151 - TCLP Herbicides**

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	DCPA2
		(33-120)
LCS 660-129180/2-A	Lab Control Sample	74
MB 660-129180/1-A	Method Blank	58

**Surrogate Legend**

DCPA = 2,4-Dichlorophenylacetic acid

**Method: 8151 - TCLP Herbicides**

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	DCPA2
		(33-120)
860-50059-1	EWRF	58
660-50061-B-1-F MS	Matrix Spike	72
660-50061-B-1-G MSD	Matrix Spike Duplicate	77

### Surrogate Summary

Client: Orange County Utilities Water Division  
Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

Method: 8151 - TCLP Herbicides (Continued)

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPA2 (33-120)
LB 660-129160/1-B LB	Method Blank	63

**Surrogate Legend**

DCPA = 2,4-Dichlorophenylacetic acid

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### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB 660-129353/7 LB  
 Matrix: Solid  
 Analysis Batch: 129353

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			09/20/12 17:14	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			09/20/12 17:14	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			09/20/12 17:14	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			09/20/12 17:14	1
Benzene	0.50	U	1.0	0.50	ug/L			09/20/12 17:14	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			09/20/12 17:14	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			09/20/12 17:14	1
Chloroform	0.90	U	1.0	0.90	ug/L			09/20/12 17:14	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			09/20/12 17:14	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			09/20/12 17:14	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			09/20/12 17:14	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	99		70 - 130		09/20/12 17:14	1
Dibromofluoromethane	99		70 - 130		09/20/12 17:14	1
Toluene-d8 (Sur)	100		70 - 130		09/20/12 17:14	1

Lab Sample ID: MB 660-129353/6  
 Matrix: Solid  
 Analysis Batch: 129353

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			09/20/12 16:45	1
1,2-Dichloroethane	0.57	U	1.0	0.57	ug/L			09/20/12 16:45	1
1,4-Dichlorobenzene	0.52	U	1.0	0.52	ug/L			09/20/12 16:45	1
2-Butanone (MEK)	8.4	U	10	8.4	ug/L			09/20/12 16:45	1
Benzene	0.50	U	1.0	0.50	ug/L			09/20/12 16:45	1
Carbon tetrachloride	0.42	U	1.0	0.42	ug/L			09/20/12 16:45	1
Chlorobenzene	0.63	U	1.0	0.63	ug/L			09/20/12 16:45	1
Chloroform	0.90	U	1.0	0.90	ug/L			09/20/12 16:45	1
Tetrachloroethene	0.50	U	1.0	0.50	ug/L			09/20/12 16:45	1
Trichloroethene	0.50	U	1.0	0.50	ug/L			09/20/12 16:45	1
Vinyl chloride	0.50	U	1.0	0.50	ug/L			09/20/12 16:45	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	98		70 - 130		09/20/12 16:45	1
Dibromofluoromethane	100		70 - 130		09/20/12 16:45	1
Toluene-d8 (Sur)	101		70 - 130		09/20/12 16:45	1

Lab Sample ID: LCS 660-129353/4  
 Matrix: Solid  
 Analysis Batch: 129353

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1-Dichloroethene	20.0	20.2		ug/L		101	51 - 150
1,2-Dichloroethane	20.0	20.1		ug/L		100	70 - 130
1,4-Dichlorobenzene	20.0	21.1		ug/L		105	70 - 130
2-Butanone (MEK)	40.0	38.0		ug/L		95	83 - 140
Benzene	20.0	20.9		ug/L		104	68 - 134

QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 860-50059-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 660-129353/4  
 Matrix: Solid  
 Analysis Batch: 129353

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	20.0	21.1		ug/L		105	61 - 134
Chlorobenzene	20.0	21.5		ug/L		107	70 - 130
Chloroform	20.0	20.6		ug/L		103	68 - 130
Tetrachloroethane	20.0	21.8		ug/L		109	50 - 143
Trichloroethene	20.0	22.1		ug/L		111	63 - 139
Vinyl chloride	20.0	26.1		ug/L		131	48 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: 660-50059-1 MS  
 Matrix: Solid  
 Analysis Batch: 129353

Client Sample ID: EWRF  
 Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	4.5	U	200	197		ug/L		99	51 - 150
1,2-Dichloroethane	5.7	U	200	196		ug/L		98	70 - 130
1,4-Dichlorobenzene	5.2	U	200	209		ug/L		104	70 - 130
2-Butanone (MEK)	200		400	583		ug/L		90	63 - 140
Benzene	5.0	U	200	200		ug/L		100	68 - 134
Carbon tetrachloride	4.2	U	200	200		ug/L		100	61 - 134
Chlorobenzene	6.3	U	200	215		ug/L		107	70 - 130
Chloroform	9.0	U	200	195		ug/L		98	68 - 130
Tetrachloroethene	5.0	U	200	231		ug/L		118	50 - 143
Trichloroethene	5.0	U	200	229		ug/L		114	63 - 139
Vinyl chloride	5.0	U	200	243		ug/L		122	48 - 147

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	95		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: 660-50059-1 MSD  
 Matrix: Solid  
 Analysis Batch: 129353

Client Sample ID: EWRF  
 Prep Type: TCLP

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1-Dichloroethene	4.5	U	200	197		ug/L		98	51 - 150	0	30
1,2-Dichloroethane	5.7	U	200	203		ug/L		102	70 - 130	3	30
1,4-Dichlorobenzene	5.2	U	200	207		ug/L		104	70 - 130	1	30
2-Butanone (MEK)	200		400	558		ug/L		88	63 - 140	1	30
Benzene	5.0	U	200	209		ug/L		104	68 - 134	4	30
Carbon tetrachloride	4.2	U	200	204		ug/L		102	61 - 134	2	30
Chlorobenzene	6.3	U	200	204		ug/L		102	70 - 130	5	30
Chloroform	9.0	U	200	206		ug/L		103	68 - 130	5	30
Tetrachloroethene	5.0	U	200	226		ug/L		113	50 - 143	2	30
Trichloroethene	5.0	U	200	217		ug/L		109	63 - 139	5	30

### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

#### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 660-50059-1 MSD  
 Matrix: Solid  
 Analysis Batch: 129353

Client Sample ID: EWRF  
 Prep Type: TCLP

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Vinyl chloride	5.0	U	200	265		ug/L		126	48 - 147	4	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	102		70 - 130
Toluene-d8 (Surr)	101		70 - 130



#### Method: 8270C - TCLP Semivolatiles

Lab Sample ID: MB 660-129196/1-A  
 Matrix: Solid  
 Analysis Batch: 129329

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 129196

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	0.0012	U	0.010	0.0012	mg/L		09/18/12 13:46	09/20/12 12:42	1
2,4,5-Trichlorophenol	0.0021	U	0.010	0.0021	mg/L		09/18/12 13:45	09/20/12 12:42	1
2,4,6-Trichlorophenol	0.0019	U	0.010	0.0019	mg/L		09/18/12 13:45	09/20/12 12:42	1
2,4-Dinitrotoluene	0.00091	U	0.010	0.00091	mg/L		09/18/12 13:45	09/20/12 12:42	1
2-Methylphenol	0.0023	U	0.010	0.0023	mg/L		09/18/12 13:45	09/20/12 12:42	1
3 & 4 Methylphenol	0.0024	U	0.010	0.0024	mg/L		09/18/12 13:45	09/20/12 12:42	1
Hexachlorobenzene	0.0017	U	0.010	0.0017	mg/L		09/18/12 13:45	09/20/12 12:42	1
Hexachlorobutadiene	0.0010	U	0.010	0.0010	mg/L		09/18/12 13:45	09/20/12 12:42	1
Hexachloroethane	0.00085	U	0.010	0.00085	mg/L		09/18/12 13:45	09/20/12 12:42	1
Nitrobenzene	0.0019	U	0.010	0.0019	mg/L		09/18/12 13:45	09/20/12 12:42	1
Pentachlorophenol	0.0015	U	0.015	0.0015	mg/L		09/18/12 13:45	09/20/12 12:42	1
Pyridine	0.0016	U	0.050	0.0016	mg/L		09/18/12 13:45	09/20/12 12:42	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol	99		29 - 143	09/18/12 13:45	09/20/12 12:42	1
2-Fluorobiphenyl	95		36 - 124	09/18/12 13:45	09/20/12 12:42	1
2-Fluorophenol	70		29 - 121	09/18/12 13:46	09/20/12 12:42	1
Nitrobenzene-d5	94		34 - 130	09/18/12 13:45	09/20/12 12:42	1
Phenol-d6 (Surr)	58		25 - 128	09/18/12 13:45	09/20/12 12:42	1
Terphenyl-d14	80		14 - 148	09/18/12 13:45	09/20/12 12:42	1

Lab Sample ID: LCS 660-129196/2-A  
 Matrix: Solid  
 Analysis Batch: 129329

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 129196

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
1,4-Dichlorobenzene	0.500	0.371		mg/L		74	38 - 130	
2,4,5-Trichlorophenol	0.500	0.467		mg/L		93	48 - 130	
2,4,6-Trichlorophenol	0.500	0.462		mg/L		92	47 - 131	
2,4-Dinitrotoluene	0.500	0.492		mg/L		98	10 - 150	
2-Methylphenol	0.500	0.383		mg/L		77	40 - 130	
Hexachlorobenzene	0.500	0.476		mg/L		95	35 - 136	
Hexachlorobutadiene	0.500	0.391		mg/L		78	31 - 130	
Hexachloroethane	0.500	0.354		mg/L		71	31 - 130	
Nitrobenzene	0.500	0.477		mg/L		95	45 - 130	

QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

Method: 8270C - TCLP Semivolatiles (Continued)

Lab Sample ID: LCS 660-129196/2-A  
 Matrix: Solid  
 Analysis Batch: 129329

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 129196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Pentachlorophenol	0.500	0.609		mg/L		102	30 - 134
Pyridine	0.500	0.157		mg/L		31	10 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	97		29 - 143
2-Fluorobiphenyl	80		36 - 124
2-Fluorophenol	69		29 - 121
Nitrobenzene-d6	95		34 - 130
Phenol-d6 (Surr)	57		25 - 128
Tarphenyl-d14	90		14 - 148

Lab Sample ID: LB 660-129160/1-C LB  
 Matrix: Solid  
 Analysis Batch: 129329

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 129196

Analyte	LB Result	LB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0060	U	0.050	0.0060	mg/L		09/18/12 13:45	09/20/12 13:33	1
2,4,5-Trichlorophenol	0.011	U	0.050	0.011	mg/L		09/18/12 13:45	09/20/12 13:33	1
2,4,6-Trichlorophenol	0.0095	U	0.050	0.0095	mg/L		09/18/12 13:45	09/20/12 13:33	1
2,4-Dinitrotoluene	0.0046	U	0.050	0.0046	mg/L		09/18/12 13:45	09/20/12 13:33	1
2-Methylphenol	0.012	U	0.050	0.012	mg/L		09/18/12 13:45	09/20/12 13:33	1
3 & 4 Methylphenol	0.012	U	0.050	0.012	mg/L		09/18/12 13:45	09/20/12 13:33	1
Hexachlorobenzene	0.0085	U	0.050	0.0085	mg/L		09/18/12 13:45	09/20/12 13:33	1
Hexachlorobutadiene	0.0050	U	0.050	0.0050	mg/L		09/18/12 13:45	09/20/12 13:33	1
Hexachloroethane	0.0043	U	0.050	0.0043	mg/L		09/18/12 13:45	09/20/12 13:33	1
Nitrobenzene	0.0095	U	0.050	0.0095	mg/L		09/18/12 13:45	09/20/12 13:33	1
Pentachlorophenol	0.0075	U	0.075	0.0075	mg/L		09/18/12 13:45	09/20/12 13:33	1
Pyridine	0.0080	U	0.25	0.0080	mg/L		09/18/12 13:45	09/20/12 13:33	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	94		29 - 143	09/18/12 13:45	09/20/12 13:33	1
2-Fluorobiphenyl	83		36 - 124	09/18/12 13:45	09/20/12 13:33	1
2-Fluorophenol	69		29 - 121	09/18/12 13:45	09/20/12 13:33	1
Nitrobenzene-d6	83		34 - 130	09/18/12 13:45	09/20/12 13:33	1
Phenol-d6 (Surr)	59		25 - 128	09/18/12 13:45	09/20/12 13:33	1
Tarphenyl-d14	85		14 - 148	09/18/12 13:45	09/20/12 13:33	1

Lab Sample ID: 660-50059-1 MS  
 Matrix: Solid  
 Analysis Batch: 129329

Client Sample ID: EWRF  
 Prep Type: TCLP  
 Prep Batch: 129196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,4-Dichlorobenzene	0.0000	U	0.500	0.334		mg/L		67	38 - 130
2,4,5-Trichlorophenol	0.011	U	0.500	0.328		mg/L		66	48 - 130
2,4,6-Trichlorophenol	0.0095	U	0.500	0.299		mg/L		60	47 - 131
2,4-Dinitrotoluene	0.0046	U	0.500	0.411		mg/L		82	48 - 131
2-Methylphenol	0.012	U	0.500	0.259		mg/L		52	40 - 130
Hexachlorobenzene	0.0085	U	0.500	0.418		mg/L		84	35 - 136
Hexachlorobutadiene	0.0050	U	0.500	0.361		mg/L		72	34 - 130



QC Sample Results

Client: Orange County Utilities Water Division  
Project/Site: EWRf TCLP

TestAmerica Job ID: 660-50059-1

Method: 8270C - TCLP Semivolatiles (Continued)

Lab Sample ID: 660-50059-1 MS  
Matrix: Solid  
Analysis Batch: 129329

Client Sample ID: EWRf  
Prep Type: TCLP  
Prep Batch: 129196

Analyte	Sample	Sample	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Hexachloroethane	0.0043	U	0.500	0.313		mg/L		63	31 - 130
Nitrobenzene	0.0095	U	0.500	0.410		mg/L		82	45 - 130
Pentachlorophenol	0.0075	U	0.500	0.385		mg/L		77	30 - 134
Pyridine	0.0080	U	0.500	0.202		mg/L		40	10 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	67		29 - 143
2-Fluorobiphenyl	70		36 - 124
2-Fluorophenol	49		29 - 121
Nitrobenzene-d5	76		34 - 130
Phenol-d6 (Surr)	45		25 - 128
Terphenyl-d14	35		14 - 148

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Lab Sample ID: 660-50059-1 MSD  
Matrix: Solid  
Analysis Batch: 129329

Client Sample ID: EWRf  
Prep Type: TCLP  
Prep Batch: 129196

Analyte	Sample	Sample	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
1,4-Dichlorobenzene	0.0080	U	0.500	0.372		mg/L		74	38 - 130	11	36
2,4,5-Trichlorophenol	0.011	U	0.500	0.375		mg/L		75	48 - 130	13	35
2,4,6-Trichlorophenol	0.0095	U	0.500	0.348		mg/L		70	47 - 131	15	35
2,4-Dinitrotoluene	0.0046	U	0.500	0.457		mg/L		91	48 - 131	10	35
2-Methylphenol	0.012	U	0.500	0.312		mg/L		62	40 - 130	18	35
Hexachlorobenzene	0.0085	U	0.500	0.434		mg/L		87	35 - 138	4	35
Hexachlorobutadiene	0.0050	U	0.500	0.403		mg/L		81	34 - 130	11	35
Hexachloroethane	0.0043	U	0.500	0.371		mg/L		74	31 - 130	17	35
Nitrobenzene	0.0095	U	0.500	0.440		mg/L		88	45 - 130	7	35
Pentachlorophenol	0.0075	U	0.500	0.411		mg/L		82	30 - 134	7	35
Pyridine	0.0080	U	0.500	0.223		mg/L		45	10 - 130	10	35

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol	65		29 - 143
2-Fluorobiphenyl	74		36 - 124
2-Fluorophenol	55		29 - 121
Nitrobenzene-d5	82		34 - 130
Phenol-d6 (Surr)	50		25 - 128
Terphenyl-d14	40		14 - 148

Method: 8081A - TCLP Pesticides

Lab Sample ID: MB 660-129307/1-A  
Matrix: Solid  
Analysis Batch: 129383

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 129307

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlordane (technical)	0.0034	U	0.025	0.0034	mg/L		09/20/12 09:13	09/20/12 19:11	1
Endrin	0.00081	U	0.0050	0.00081	mg/L		09/20/12 09:13	09/20/12 19:11	1
gamma-BHC (Lindane)	0.00021	U	0.0025	0.00021	mg/L		09/20/12 09:13	09/20/12 19:11	1
Heptachlor	0.00036	U	0.0025	0.00036	mg/L		09/20/12 09:13	09/20/12 19:11	1



QC Sample Results

Client: Orange County Utilities Water Division  
Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

Method: 8081A - TCLP Pesticides (Continued)

Lab Sample ID: MB 660-129307/1-A  
Matrix: Solid  
Analysis Batch: 129383

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 129307

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Heptachlor epoxide	0.00022	U	0.0025	0.00022	mg/L		09/20/12 09:13	09/20/12 19:11	1
Methoxychlor	0.00044	U	0.025	0.00044	mg/L		09/20/12 09:13	09/20/12 19:11	1
Toxaphene	0.019	U	0.25	0.019	mg/L		09/20/12 09:13	09/20/12 19:11	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	94		30 - 150	09/20/12 09:13	09/20/12 19:11	1
Tetrachloro-m-xylene	73		30 - 150	09/20/12 09:13	09/20/12 19:11	1



Lab Sample ID: LCS 660-129307/2-A  
Matrix: Solid  
Analysis Batch: 129383

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 129307

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Endrin	0.00500	0.00461	I	mg/L		90	49 - 130
gamma-BHC (Lindane)	0.00500	0.00418		mg/L		83	53 - 130
Heptachlor	0.00500	0.00404		mg/L		81	36 - 130
Heptachlor epoxide	0.00500	0.00416		mg/L		83	41 - 130
Methoxychlor	0.00500	0.00477	I	mg/L		95	45 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	93		30 - 150
Tetrachloro-m-xylene	72		30 - 150

Lab Sample ID: LB 660-129160/1-D LB  
Matrix: Solid  
Analysis Batch: 129383

Client Sample ID: Method Blank  
Prep Type: TCLP  
Prep Batch: 129307

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlordane (technical)	0.0034	U	0.025	0.0034	mg/L		09/20/12 09:13	09/20/12 20:45	1
Endrin	0.00061	U	0.0060	0.00061	mg/L		09/20/12 09:13	09/20/12 20:45	1
gamma-BHC (Lindane)	0.00021	U	0.0025	0.00021	mg/L		09/20/12 09:13	09/20/12 20:45	1
Heptachlor	0.00036	U	0.0025	0.00036	mg/L		09/20/12 09:13	09/20/12 20:45	1
Heptachlor epoxide	0.00022	U	0.0025	0.00022	mg/L		09/20/12 09:13	09/20/12 20:45	1
Methoxychlor	0.00044	U	0.025	0.00044	mg/L		09/20/12 09:13	09/20/12 20:45	1
Toxaphene	0.019	U	0.25	0.019	mg/L		09/20/12 09:13	09/20/12 20:45	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	117		30 - 150	09/20/12 09:13	09/20/12 20:45	1
Tetrachloro-m-xylene	73		30 - 150	09/20/12 09:13	09/20/12 20:45	1

Lab Sample ID: 660-50061-B-1-J MS  
Matrix: Solid  
Analysis Batch: 129383

Client Sample ID: Matrix Spike  
Prep Type: TCLP  
Prep Batch: 129307

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Endrin	0.00061	U	0.00500	0.00359	I	mg/L		72	49 - 130
gamma-BHC (Lindane)	0.00021	U	0.00500	0.00330		mg/L		66	53 - 130
Heptachlor	0.00036	U	0.00500	0.00315		mg/L		63	36 - 130
Heptachlor epoxide	0.00022	U	0.00500	0.00316		mg/L		63	41 - 130

QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

Method: 8081A - TCLP Pesticides (Continued)

Lab Sample ID: 660-50061-B-1-J MS  
 Matrix: Solid  
 Analysis Batch: 129383

Client Sample ID: Matrix Spike  
 Prep Type: TCLP  
 Prep Batch: 129307

Analyte	Sample	Sample	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Methoxychlor	0.00044	U	0.00500	0.00368	I	mg/L		74	45 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	66		30 - 150
Tetrachloro-m-xylene	69		30 - 150

Lab Sample ID: 660-50061-B-1-K MSD  
 Matrix: Solid  
 Analysis Batch: 129383

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: TCLP  
 Prep Batch: 129307

Analyte	Sample	Sample	Spike Added	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Endrin	0.00061	U	0.00500	0.00384	I	mg/L		77	49 - 130	7	30
gamma-BHC (Lindane)	0.00021	U	0.00500	0.00333		mg/L		67	53 - 130	1	30
Heptachlor	0.00036	U	0.00500	0.00318		mg/L		64	36 - 130	1	30
Heptachlor epoxide	0.00022	U	0.00500	0.00328		mg/L		66	41 - 130	4	30
Methoxychlor	0.00044	U	0.00500	0.00404	I	mg/L		81	45 - 130	11	30

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	73		30 - 150
Tetrachloro-m-xylene	59		30 - 150



Method: 8151 - TCLP Herbicides

Lab Sample ID: MB 660-129180/1-A  
 Matrix: Solid  
 Analysis Batch: 129397

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 129180

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-D	0.0075	U	0.025	0.0075	mg/L		09/18/12 10:36	09/20/12 20:03	1
Silvex (2,4,5-TP)	0.0016	U	0.025	0.0016	mg/L		09/18/12 10:36	09/20/12 20:03	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4-Dichlorophenylacetic acid	58		33 - 120	09/18/12 10:36	09/20/12 20:03	1

Lab Sample ID: LCS 660-129180/2-A  
 Matrix: Solid  
 Analysis Batch: 129397

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 129180

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
2,4-D	0.0400	0.0270		mg/L		68	10 - 141
Silvex (2,4,5-TP)	0.0400	0.0360		mg/L		90	10 - 138

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	74		33 - 120

### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

#### Method: 8151 - TCLP Herbicides (Continued)

Lab Sample ID: LB 660-129160/1-B LB  
 Matrix: Solid  
 Analysis Batch: 129397

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 129180

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-D	0.0075	U	0.025	0.0075	mg/L		09/18/12 10:38	09/20/12 21:54	1
Silvex (2,4,5-TP)	0.0016	U	0.025	0.0016	mg/L		09/18/12 10:36	09/20/12 21:54	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4-Dichlorophenylacetic acid	63		33 - 120	09/18/12 10:36	09/20/12 21:54	1

Lab Sample ID: 660-50061-B-1-F MS  
 Matrix: Solid  
 Analysis Batch: 129397

Client Sample ID: Matrix Spike  
 Prep Type: TCLP  
 Prep Batch: 129180

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
2,4-D	0.0075	U	0.0400	0.0329		mg/L		82	10 - 141
Silvex (2,4,5-TP)	0.0016	U	0.0400	0.0455		mg/L		114	10 - 138

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	72		33 - 120

Lab Sample ID: 660-50061-B-1-G MSD  
 Matrix: Solid  
 Analysis Batch: 129397

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: TCLP  
 Prep Batch: 129180

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
2,4-D	0.0075	U	0.0400	0.0380		mg/L		95	10 - 141	15	78
Silvex (2,4,5-TP)	0.0016	U	0.0400	0.0458		mg/L		115	10 - 138	1	86

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	77		33 - 120

#### Method: 6010B - TCLP RCRA Metals

Lab Sample ID: LCS 660-129172/2-A  
 Matrix: Solid  
 Analysis Batch: 129184

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 129172

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Arsenic	5.00	5.01		mg/L		100	75 - 125
Barium	5.00	5.01		mg/L		100	75 - 125
Cadmium	5.00	5.08		mg/L		102	75 - 125
Chromium	5.00	4.95		mg/L		99	75 - 125
Lead	5.00	4.86		mg/L		97	75 - 125
Selenium	5.00	5.08		mg/L		101	75 - 125
Silver	5.00	5.11		mg/L		102	75 - 125

Lab Sample ID: LB 660-129162/1-B LB  
 Matrix: Solid  
 Analysis Batch: 129184

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 129172

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.12	U	1.0	0.12	mg/L		09/18/12 09:20	09/18/12 14:27	1

**QC Sample Results**

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

**Method: 6010B - TCLP RCRA Metals (Continued)**

Lab Sample ID: LB 660-129162/1-B LB  
 Matrix: Solid  
 Analysis Batch: 129184

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 129172

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	DII Fac
	Result	Qualifier							
Barium	0.030	U	0.50	0.030	mg/L		09/18/12 09:20	09/18/12 14:27	1
Cadmium	0.018	U	0.50	0.018	mg/L		09/18/12 09:20	09/18/12 14:27	1
Chromium	0.050	U	1.0	0.050	mg/L		09/18/12 09:20	09/18/12 14:27	1
Lead	0.040	U	1.0	0.040	mg/L		09/18/12 09:20	09/18/12 14:27	1
Selenium	0.15	U	0.50	0.15	mg/L		09/18/12 09:20	09/18/12 14:27	1
Silver	0.050	U	0.50	0.050	mg/L		09/18/12 09:20	09/18/12 14:27	1

Lab Sample ID: 660-50059-1 MS  
 Matrix: Solid  
 Analysis Batch: 129184

Client Sample ID: EWRF  
 Prep Type: TCLP  
 Prep Batch: 129172

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	0.12	U	5.00	5.10		mg/L		102	75 - 125
Barium	0.23	I	5.00	5.30		mg/L		101	75 - 125
Cadmium	0.018	U	5.00	5.15		mg/L		103	75 - 125
Chromium	0.050	U	5.00	5.00		mg/L		100	75 - 125
Lead	0.040	U	5.00	4.91		mg/L		98	75 - 125
Selenium	0.15	U	5.00	5.12		mg/L		102	75 - 125
Silver	0.050	U	5.00	5.18		mg/L		104	75 - 125

Lab Sample ID: 660-50059-1 MSD  
 Matrix: Solid  
 Analysis Batch: 129184

Client Sample ID: EWRF  
 Prep Type: TCLP  
 Prep Batch: 129172

Analyte	Sample		Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	
	Result	Qualifier		Result	Qualifier					RPD	Limit
Arsenic	0.12	U	5.00	5.12		mg/L		102	75 - 125	0	20
Barium	0.23	I	5.00	5.32		mg/L		102	75 - 125	0	20
Cadmium	0.018	U	5.00	5.16		mg/L		103	75 - 125	0	20
Chromium	0.050	U	5.00	5.02		mg/L		100	75 - 125	0	20
Lead	0.040	U	5.00	4.95		mg/L		99	75 - 125	1	20
Selenium	0.15	U	5.00	5.14		mg/L		103	75 - 125	0	20
Silver	0.050	U	5.00	5.17		mg/L		103	75 - 125	0	20

**Method: 7470A - TCLP Mercury**

Lab Sample ID: LCS 660-129177/11-A  
 Matrix: Solid  
 Analysis Batch: 129195

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 129177

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	0.00100	0.000926		mg/L		93	80 - 120

Lab Sample ID: LCSD 660-129177/12-A  
 Matrix: Solid  
 Analysis Batch: 129195

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 129177

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	
		Result	Qualifier					RPD	Limit
Mercury	0.00100	0.000939		mg/L		94	80 - 120	1	20

### QC Sample Results

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

**Method: 7470A - TCLP Mercury (Continued)**

Lab Sample ID: LB 660-129103/1-C LB  
 Matrix: Solid  
 Analysis Batch: 129195

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 129177

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.00036	U	0.00050	0.00036	mg/L		09/18/12 09:52	09/18/12 12:36	1

Lab Sample ID: LB 660-129162/1-C LB  
 Matrix: Solid  
 Analysis Batch: 129195

Client Sample ID: Method Blank  
 Prep Type: TCLP  
 Prep Batch: 129177

Analyte	LB LB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.00036	U	0.00050	0.00036	mg/L		09/18/12 09:52	09/18/12 12:58	1



Lab Sample ID: 640-40317-A-4-D MS  
 Matrix: Solid  
 Analysis Batch: 129195

Client Sample ID: Matrix Spike  
 Prep Type: TCLP  
 Prep Batch: 129177

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Mercury	0.00036	U	0.00100	0.00095		mg/L		100	80 - 120

Lab Sample ID: 640-40317-A-4-E MSD  
 Matrix: Solid  
 Analysis Batch: 129195

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: TCLP  
 Prep Batch: 129177

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Mercury	0.00036	U	0.00100	0.00062		mg/L		96	80 - 120	3	20

### QC Association Summary

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

#### GC/MS VOA

Leach Batch: 129282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	1311	

Analysis Batch: 129353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	8260B	129282
660-50059-1 MS	EWRF	TCLP	Solid	8260B	
660-50059-1 MSD	EWRF	TCLP	Solid	8260B	
LB 660-129353/7 LB	Method Blank	Total/NA	Solid	8280B	
LCS 660-129353/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 660-129353/6	Method Blank	Total/NA	Solid	8260B	

#### GC/MS Semi VOA

Leach Batch: 129160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	1311	
660-50059-1 MS	EWRF	TCLP	Solid	1311	
660-50059-1 MSD	EWRF	TCLP	Solid	1311	
LB 660-129160/1-C LB	Method Blank	TCLP	Solid	1311	

Prep Batch: 129196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	3520C	129160
660-50059-1 MS	EWRF	TCLP	Solid	3520C	129160
660-50059-1 MSC	EWRF	TCLP	Solid	3520C	129160
LB 660-129160/1-C LB	Method Blank	TCLP	Solid	3520C	129160
LCS 660-129196/2-A	Lab Control Sample	Total/NA	Solid	3520C	
MB 660-129196/1-A	Method Blank	Total/NA	Solid	3520C	

Analysis Batch: 129329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	8270C	129196
660-50059-1 MS	EWRF	TCLP	Solid	8270C	129196
660-50059-1 MSD	EWRF	TCLP	Solid	8270C	129196
LB 660-129160/1-C LB	Method Blank	TCLP	Solid	8270C	129196
LCS 660-129196/2-A	Lab Control Sample	Total/NA	Solid	8270C	129196
MB 660-129196/1-A	Method Blank	Total/NA	Solid	8270C	129196

#### GC Semi VOA

Leach Batch: 129160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	1311	
660-50061-B-1-F MS	Matrix Spike	TCLP	Solid	1311	
660-50061-B-1-G MSD	Matrix Spike Duplicate	TCLP	Solid	1311	
660-50061-B-1-J MS	Matrix Spike	TCLP	Solid	1311	
660-50061-B-1-K MSD	Matrix Spike Duplicate	TCLP	Solid	1311	
LB 660-129160/1-B LB	Method Blank	TCLP	Solid	1311	
LB 660-129160/1-D LB	Method Blank	TCLP	Solid	1311	

QC Association Summary

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

GC Semi VOA (Continued)

Prep Batch: 129180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	8151A	129180
660-50061-B-1-F MS	Matrix Spike	TCLP	Solid	8151A	129180
660-50061-B-1-G MSD	Matrix Spike Duplicate	TCLP	Solid	8151A	129180
LB 660-129180/1-B LB	Method Blank	TCLP	Solid	8151A	129180
LCS 660-129180/2-A	Lab Control Sample	Total/NA	Solid	8151A	
MB 660-129180/1-A	Method Blank	Total/NA	Solid	8151A	

Prep Batch: 129307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	3510C	129307
660-50061-B-1-J MS	Matrix Spike	TCLP	Solid	3510C	129307
660-50061-B-1-K MSD	Matrix Spike Duplicate	TCLP	Solid	3510C	129307
LB 660-129180/1-D LB	Method Blank	TCLP	Solid	3510C	129307
LCS 660-129307/2-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 660-129307/1-A	Method Blank	Total/NA	Solid	3510C	

Analysis Batch: 129383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	8081A	129307
660-50061-B-1-J MS	Matrix Spike	TCLP	Solid	8081A	129307
660-50061-B-1-K MSD	Matrix Spike Duplicate	TCLP	Solid	8081A	129307
LB 660-129180/1-D LB	Method Blank	TCLP	Solid	8081A	129307
LCS 660-129307/2-A	Lab Control Sample	Total/NA	Solid	8081A	129307
MB 660-129307/1-A	Method Blank	Total/NA	Solid	8081A	129307

Analysis Batch: 129397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	8151	129180
660-50061-B-1-F MS	Matrix Spike	TCLP	Solid	8151	129180
660-50061-B-1-G MSD	Matrix Spike Duplicate	TCLP	Solid	8151	129180
LB 660-129180/1-B LB	Method Blank	TCLP	Solid	8151	129180
LCS 660-129180/2-A	Lab Control Sample	Total/NA	Solid	8151	129180
MB 660-129180/1-A	Method Blank	Total/NA	Solid	8151	129180

Metals

Leach Batch: 129103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-40317-A-4-D MS	Matrix Spike	TCLP	Solid	1311	
640-40317-A-4-E MSD	Matrix Spike Duplicate	TCLP	Solid	1311	
LB 660-129103/1-C LB	Method Blank	TCLP	Solid	1311	

Leach Batch: 129162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRF	TCLP	Solid	1311	
660-50059-1 MS	EWRF	TCLP	Solid	1311	
660-50059-1 MSD	EWRF	TCLP	Solid	1311	
LB 660-129162/1-B LB	Method Blank	TCLP	Solid	1311	
LB 660-129162/1-C LB	Method Blank	TCLP	Solid	1311	

### QC Association Summary

Client: Orange County Utilities Water Division  
 Project/Site: EWRf TCLP

TestAmerica Job ID: 660-50058-1

**Metals (Continued)**

**Prep Batch: 129172**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRf	TCLP	Solid	3010A	129162
660-50059-1 MS	EWRf	TCLP	Solid	3010A	129162
660-50059-1 MSD	EWRf	TCLP	Solid	3010A	129162
LB 660-129162/1-B LB	Method Blank	TCLP	Solid	3010A	129162
LCS 660-129172/2-A	Lab Control Sample	Total/NA	Solid	3010A	

**Prep Batch: 129177**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-40317-A-4-D MS	Matrix Spike	TCLP	Solid	7470A	129103
640-40317-A-4-E MSD	Matrix Spike Duplicate	TCLP	Solid	7470A	129103
660-50059-1	EWRf	TCLP	Solid	7470A	129162
LB 660-129103/1-C LB	Method Blank	TCLP	Solid	7470A	129103
LB 660-129162/1-C LB	Method Blank	TCLP	Solid	7470A	129162
LCS 660-129177/11-A	Lab Control Sample	Total/NA	Solid	7470A	
LCSD 660-129177/12-A	Lab Control Sample Dup	Total/NA	Solid	7470A	

**Analysis Batch: 129184**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50059-1	EWRf	TCLP	Solid	6010B	129172
660-50059-1 MS	EWRf	TCLP	Solid	6010B	129172
660-50059-1 MSD	EWRf	TCLP	Solid	6010B	129172
LB 660-129162/1-B LB	Method Blank	TCLP	Solid	6010B	129172
LCS 660-129172/2-A	Lab Control Sample	Total/NA	Solid	6010B	129172

**Analysis Batch: 129195**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-40317-A-4-D MS	Matrix Spike	TCLP	Solid	7470A	129177
640-40317-A-4-E MSD	Matrix Spike Duplicate	TCLP	Solid	7470A	129177
660-50059-1	EWRf	TCLP	Solid	7470A	129177
LB 660-129103/1-C LB	Method Blank	TCLP	Solid	7470A	129177
LB 660-129162/1-C LB	Method Blank	TCLP	Solid	7470A	129177
LCS 660-129177/11-A	Lab Control Sample	Total/NA	Solid	7470A	129177
LCSD 660-129177/12-A	Lab Control Sample Dup	Total/NA	Solid	7470A	129177



### Lab Chronicle

Client: Orange County Utilities Water Division  
 Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

Client Sample ID: EWRF

Date Collected: 09/13/12 05:00

Date Received: 09/14/12 13:20

Lab Sample ID: 660-50059-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.03 g	500 mL	129282	09/18/12 14:25	TP	TAL TAM
TCLP	Analysis	8260B		10	5 mL	5 mL	129353	09/20/12 17:48	RM	TAL TAM
TCLP	Leach	1311			100.01 g	2000 mL	129160	09/17/12 14:24	TG	TAL TAM
TCLP	Prep	3520C			200 mL	1 mL	129196	09/18/12 13:45	JV	TAL TAM
TCLP	Analysis	8270C		1			129329	09/20/12 13:58	SCC	TAL TAM
TCLP	Leach	1311			100.01 g	2000 mL	129160	09/17/12 14:24	TG	TAL TAM
TCLP	Prep	3510C			20 mL	2 mL	129307	09/20/12 09:13	AG	TAL TAM
TCLP	Analysis	8081A		1			129383	09/20/12 19:38	JB	TAL TAM
TCLP	Prep	8151A			25 mL	5 mL	129180	08/18/12 10:36	AG	TAL TAM
TCLP	Analysis	8151		1			129387	09/20/12 20:34	TP	TAL TAM
TCLP	Leach	1311			100.01 g	2000 mL	129162	09/18/12 08:33	TG	TAL TAM
TCLP	Prep	3010A			10 mL	50 mL	129172	09/18/12 09:20	GF	TAL TAM
TCLP	Analysis	6010B		1			129184	09/18/12 14:37	SR	TAL TAM
TCLP	Prep	7470A			25 mL	25 mL	129177	09/18/12 09:52	TG	TAL TAM
TCLP	Analysis	7470A		1			129185	09/18/12 13:02	TG	TAL TAM

**Laboratory References:**

TAL TAM = TestAmerica Tampa, 8712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

## Certification Summary

Client: Orange County Utilities Water Division  
Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

### Laboratory: TestAmerica Tampa

All certifications held by the laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	07-31-12
USDA	Federal		P330-11-00177	04-20-14



## Method Summary

Client: Orange County Utilities Water Division  
Project/Site: EWRF TCLP

TestAmerica Job ID: 660-50059-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL TAM
8270C	TCLP Semivolatiles	SW846	TAL TAM
8081A	TCLP Pesticides	SW846	TAL TAM
8151	TCLP Herbicides	SW846	TAL TAM
6010B	TCLP RCRA Metals	SW846	TAL TAM
7470A	TCLP Mercury	SW846	TAL TAM

### Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And its Updates.

### Laboratory References:

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)865-7427

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### Login Sample Receipt Checklist

Client: Orange County Utilities Water Division

Job Number: 660-50059-1

Login Number: 50059

List Source: TestAmerica Tampa

List Number: 1

Creator: Edwards, Erricka

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter	N/A	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked	N/A	

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**AGREEMENT  
FOR THE TREATMENT AND COMPOSTING  
OF DOMESTIC WASTEWATER RESIDUALS**

This agreement for the treatment and composting of domestic wastewater residuals (the "Agreement") is made and entered into as of the date of last execution below (the "Effective Date"), by and between ORANGE COUNTY, FLORIDA (the "County"), a charter county and political subdivision of the State of Florida whose address is 201 S. Rosalind Avenue, Orlando, Florida 32801-3547, and \_\_\_\_\_ (the "Contractor"), a Florida \_\_\_\_\_ (corporation or limited liability company), whose address is \_\_\_\_\_ . The County and the Contractor may also be referred to in this Agreement individually as a "Party" or collectively as the "Parties."

**RECITALS**

**WHEREAS**, the Contractor owns and operates a Residuals Management Facility ("RMF") in accordance with permit no. FLA \_\_\_\_\_ (the "Permit") issued by the Florida Department of Environmental Protection ("FDEP"); and

**WHEREAS**, the County owns and operates two water reclamation facilities that produce wastewater residuals which require treatment and disposal; and

**WHEREAS**, Contractor is responsible for maintenance and operation of an RMF in compliance with applicable federal and state laws and regulations; and

**WHEREAS**, the County has entered into an agreement with a third-party (the "County's Hauler") to haul, treat, and dispose of its domestic wastewater residuals; and

**WHEREAS**, the County's Hauler has identified the Contractor as one entity responsible for the treatment and/or disposal of the County's domestic wastewater residuals; and

**WHEREAS**, Florida Administrative Code Rule 62-640.880(c) states, in part: "The source facility and the Biosolids treatment facility shall enter into a written agreement addressing the quality and quantity of the Biosolids accepted by the Biosolids treatment facility;" and

**WHEREAS**, the County desires to enter into an agreement with Contractor for the purpose of satisfying Florida Administrative Code Rule 62-640.880, and for other lawful purposes.

**NOW, THEREFORE,** in consideration of the mutual terms, covenants and conditions to be complied with on the part of the respective Parties, it is agreed as follows:

**SECTION I. RECITALS INCORPORATED**

Each of the forgoing recitals forms a material part of this Agreement.

**SECTION 2. TERM OF THE AGREEMENT; TERMINATION**

The term of this Agreement shall commence on the Effective Date and shall continue for a period of one year from the Effective Date, and shall only be extended upon the mutual written agreement of the parties. The Parties reserve the right to terminate this contract for convenience upon giving ninety calendar days written notice to the other Party of the intent to terminate and providing the effective date of termination.

**SECTION 3. SOURCE FACILITIES; REMOVAL OF DOMESTIC WASTEWATER RESIDUALS**

- a) The source facilities for the domestic wastewater residuals are identified as follows:

Eastern Water Reclamation Facility  
1621 S. Alafaya Trail, Orlando, Florida 32828, and

Northwest Water Reclamation Facility  
701 W. McCormick Rd., Apopka, Florida 32703

- b) The County has entered into an agreement with Merrell Bros., Inc., to remove the domestic wastewater residuals from the source facilities and transport the residuals to the Contractor or other permitted treatment and/or disposal facility.
- c) The Parties agree that once the domestic wastewater residuals are removed from the source facility by Merrell Bros., Inc., all right, title, ownership, and responsibility for the domestic wastewater residuals shall pass to the hauler contractor, Merrell Bros., Inc., and the County shall have no liability or responsibility for the domestic wastewater residuals once the residuals leave the source facility.

**SECTION 4. PAYMENT FOR SERVICES**

- a) The Parties agree that the County's contract hauler, Merrell Bros., Inc., shall be responsible to the Contractor for the cost of treatment and disposal of the domestic wastewater residuals received from the source facilities.

- b) The Contractor shall invoice Merrell Bros., Inc., for all treatment and disposal costs associated with the disposal of the County's domestic wastewater residuals.

**SECTION 5. THE COUNTY'S DUTIES, OBLIGATIONS AND RESPONSIBILITIES**

The County covenants and agrees that:

- a) It will operate the source facilities in accordance with all applicable federal and state laws relating to the operation of wastewater treatment facilities and the production or domestic wastewater residuals.
- b) It will provide the Contractor with a certified manifest of the domestic wastewater residuals removed by the County's Hauler to be delivered to the Contractor.
- c) It does not warrant or guarantee the volume or quality of domestic wastewater residuals removed by the County's Hauler.

**SECTION 6. THE CONTRACTOR'S DUTIES, OBLIGATIONS AND RESPONSIBILITIES**

The Contractor covenants and agrees that:

- a) The Contractor will maintain and operate its RMF in accordance with 40 CFR Part 503, and Chapter 64-640, Florida Administrative Code, and any other federal, state and local laws, regulations, permits and authorizations.
- b) For the duration of this Agreement, the Contractor will maintain FDEP Permit No. FLA \_\_\_\_\_, which is incorporated herein by reference, and will notify the County of any applications to modify Permit No. FLA \_\_\_\_\_, as well as any permit modifications issued by FDEP.
- c) The Contractor warrants that it has a total capacity of \_\_\_\_\_ cubic yards per week available for domestic wastewater residual treatment.
- d) The Contractor will accept all responsibility and save and hold harmless the County from any actions and/or penalties for the treatment, management, use, land application and disposal of the domestic wastewater residuals after the domestic wastewater residuals have been delivered to the RMF.
- e) The Contractor will maintain a record of the total quantity of residuals and file with FDEP a summary as required by the licensing permit issued to the Contractor.
- I) Within 30 days or the Effective Date of this Agreement, the Contractor will provide to the County a copy of the Facility Management Plan, as required by FDEP under Chapter 62-640, Florida Administrative Code.



- g) Within 30 days of the Effective Date of this Agreement, the Contractor will provide to the County a copy of all federal and state permits and authorizations required to operate the RMF.
- h) The Contractor will provide the County copies of any Notices of Violation of any federal or state laws, regulations, permits, or authorizations within ten business days of the Contractor's receipt thereof.

**SECTION 7. NOTICES**

All notices required or authorized under this Agreement shall be given in writing and will be deemed to have been given when personally delivered or mailed by first class mail, return receipt requested, or when receipt is acknowledged if sent by facsimile or other electronic transmission device. Notices to the Parties will, unless another address is specified in writing, be sent to the addresses indicated below:

**THE CONTRACTOR:**

(President)  
(Company Name)  
(Address)  
(Fax No.)

**COUNTY:**

Director of Orange County Utilities  
9150 Curry Ford Road  
Orlando, Florida 32825  
Fax No. 407-254-9899

**SECTION 8. INSPECTION**

The County shall have the right, upon written or oral notice to the Contractor and when reasonably necessary, to enter upon the RMF to review and inspect the Contractor's operating practices and equipment as related to this Agreement.

**SECTION 9. DISCLAIMER OF THIRD PARTY BENEFICIARIES**

This Agreement is solely for the benefit of the formal Parties hereto, and no right or cause of action shall accrue upon or by reason hereof, to or for the benefit of any third party not a formal party hereto.

**SECTION 10. SEVERABILITY**

If any court finds any part of this Agreement invalid or unenforceable, such invalidity or shall not affect the other parts of this Agreement if the rights, and obligations of the Parties contained therein are not materially prejudiced and if the intentions of the Parties continue to be effectuated.

**SECTION 11. ASSIGNMENT**

No party may assign any of its rights under this Agreement.

**SECTION 12. NON-WAIVER**

The failure of either Party to insist upon the other Party's compliance with its obligations under this Agreement in any one or more instances shall not operate to release the other Party from its duties to comply with such obligations all other instances.

**SECTION 13. INDEMNIFICATION**

The Contractor will indemnify and hold harmless the County from any and all claims, actions, and judgments, including all costs of defense and attorney's fees in defending against same and regarding property damage or bodily harm, arising from and related to the Contractor's receipt, treatment, management, use, application, and/or disposal of the domestic wastewater residuals.

**SECTION 14. APPLICABLE LAW**

This Agreement and the provisions contained herein shall be construed, governed by, and interpreted according to the laws of the State of Florida. Any litigation arising out of this Agreement shall be heard in the state courts located and lying within Orange County, Florida.

**SECTION 15. ENTIRE AGREEMENT**

This Agreement and the Exhibits attached hereto constitute the entire Agreement and understanding between the Parties and shall supersede and replace any and all prior or contemporaneous representations, negotiations, statements, understandings, or agreements between the Parties, whether verbal or written, relating to the matters set forth herein. The Parties hereto fully understand the terms and conditions of this Agreement, have entered into this Agreement voluntarily, and have received or had the opportunity to receive independent advice and legal counsel.

**SECTION 16. MODIFICATION**

Any and all modifications to the provisions herein shall be by mutual agreement of the Parties, in writing, and executed by the Parties thereto.

**SECTION 17. ATTORNEYS FEES.**

Should any Party employ an attorney or attorneys to enforce any of the provisions of this Agreement, or to protect its interest in any matter arising under this Agreement, or to recover damages for the breach of this Agreement, the Parties agree that each Party shall be responsible for its own costs including attorney fees, expert witness fees, court costs, fees and costs on appeal, and the cost of paraprofessionals working under supervision of an attorney, expended or incurred in connection therewith, whether resolved by out-of-court settlement, mediation, trial or

appellate proceedings. This provision does not constitute a waiver of the sovereign immunity of the County or extend the County's liability beyond the limits established in Section 768.28 Florida Statutes.

SECTION 18. WAIVER OF JURY TRIAL.

**EACH PARTY HERETO KNOWINGLY, VOLUNTARILY, AND INTENTIONALLY WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY WITH RESPECT TO ANY LITIGATION (INCLUDING, BUT NOT LIMITED TO, ANY CLAIMS, CROSS- CLAIMS, COUNTER-CLAIMS, OR THIRD PARTY CLAIMS) ARISING OUT OF, UNDER, OR IN CONNECTION WITH THIS AGREEMENT OR BETWEEN THE PARTIES TO THIS AGREEMENT, THEIR AFFILIATES, SUBSIDIARIES, SUCCESSORS, OR ASSIGNS, THE PARTIES HERETO EXPRESSLY CONSENT TO A NON-JURY TRIAL IN THE EVENT OF ANY OF THE FOREGOING.**

IN WITNESS WHEREOF, the Parties hereto have caused these presents to be executed as of the dates indicated below.

ORANGE COUNTY, FLORIDA

By:

\_\_\_\_\_  
Johnny Richardson, CPPO, CFCM  
Manager, Procurement Division

Date:

\_\_\_\_\_

REMAINING SIGNATURES ON FOLLOWING PAGES

Company:

By: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title:

Date: \_

Witnesses (2)

\_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_

Print Name: \_\_\_\_\_

\_\_\_\_\_

STATE OF FLORIDA }  
COUNTY OF ORANGE }

The forgoing instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_,  
2014, by \_\_\_\_\_ of \_\_\_\_\_ (Company  
Name/Type), on behalf of the company. He/she is personally know to me or produced  
as identification.

WITNESS my hand and official seal this \_\_\_\_\_

Print Name: \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

**OCU Biosolids Trailer Inspection Form Attachment E**

Eastern Water Reclamation Facility

Each trailer must be checked IN at the time of arrival by facility's staff and the contractor's driver

>> NO EXCEPTIONS <<

Trailer Check In

Trailer Number: \_\_\_\_\_

Date In: \_\_\_\_\_

Time In: \_\_\_\_\_

Items to be inspected

Tarp Rolled Back: Yes / No      Air Coupling units: Ok / Damaged      Trailer's Electrical Plug: Ok / Damaged  
Landing Gear Working: Yes / No      Landing Gear Condition: Ok / Damaged  
Tires Checked: Yes / No      Brakes Checked: Yes / No  
Tailgate & Tailgate's Safety Locks Check: Yes / No

Operator's Signature: \_\_\_\_\_

Driver's Signature: \_\_\_\_\_

Comments /Problems: \_\_\_\_\_

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Each trailer must be checked OUT at the time of arrival by facility's staff and the contractor's driver

>> NO EXCEPTIONS <<

Trailer Check Out

Trailer Number: \_\_\_\_\_

Date In: \_\_\_\_\_

Time In: \_\_\_\_\_

Items to be inspected

Tarp Rolled Back: Yes / No      Air Coupling units: Ok / Damaged      Trailer's Electrical Plug: Ok / Damaged  
Landing Gear Working: Yes / No      Landing Gear Condition: Ok / Damaged  
Tires Checked: Yes / No      Brakes Checked: Yes / No  
Tailgate & Tailgate's Safety Locks Check: Yes / No

Operator's Signature: \_\_\_\_\_

Driver's Signature: \_\_\_\_\_

Comments /Problems: \_\_\_\_\_

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