

EAST BAY MUNICIPAL UTILITY DISTRICT

REQUEST FOR QUOTATION (RFQ) No. 1521

For

**HAULING AND DISPOSAL OF WASTEWATER
GRIT, SCREENINGS AND SKIMMINGS**

For complete information regarding this project, see RFQ posted at <http://www.ebmud.com/business-opportunities> or contact the EBMUD representative listed below. Thank you for your interest!

Contact Person: Susan Rexin, Buyer
Phone Number: (510) 287-0451
E-mail Address: srexin@ebmud.com

Please note that prospective bidders are responsible for reviewing <http://ebmud.com/business>, during the RFQ process, for any published addenda regarding this RFQ.

RESPONSE DUE

By

1:30 p.m.

On

July 1, 2015

At

**EBMUD, Purchasing Division
375 Eleventh St., First Floor
Oakland, CA 94607**



375 Eleventh Street, Oakland, CA 94607

Website: ebmud.com

EAST BAY MUNICIPAL UTILITY DISTRICT

RFQ No. 1521

For

HAULING AND DISPOSAL OF WASTEWATER GRIT, SCREENINGS AND SKIMMINGS

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1 – L196339AERATED GRIT

2 – L196340SCUM REMOVAL

I. STATEMENT OF WORK

A. SCOPE

East Bay Municipal Utility District (District) intends to award a three-year contract with two options to renew for one-year periods, to the lowest cost bidder whose response meets the District's requirements.

The scope of this project is to haul and dispose of wastewater grit, screenings and skimmings from the District's Wastewater Facilities.

B. BIDDER QUALIFICATIONS/CONTRACTOR PERSONNEL

Bidder shall possess all permits, licenses, and professional credentials necessary to supply product and perform services as specified under this RFQ.

All workers employed by the Contractor and subcontractors shall be competent and skilled in the performance of the work to which they are assigned. **Failure or delay in the performance of this contract due to any inability by the Contractor, for any reason, to obtain employees of the number and skill required may be deemed by the District to constitute a default of this contract.**

If a person employed to perform work by the Contractor shall be considered by the District to be incompetent, negligent, unfaithful, or otherwise unsatisfactory, he or she shall be removed from the performance of work under this contract. Removed persons shall not again be employed on the work under this contract except with the prior consent of the District; provided, this paragraph shall be interpreted and enforced in such a manner as will respect and give effect to agreements on such subject between the Contractor and the union representing any or all of its employees.

The Contractor shall provide operating and safety training for all personnel. Supervisory personnel shall be trained in first aid and each vehicle shall be equipped with a first aid kit. The Contractor will include drug tests of the drivers consistent with State and Federal Department of Transportation requirements during the duration of this contract. All safety rules will be observed including those imposed at specific sites.

C. SPECIFIC REQUIREMENTS

Under this proposal, it is required that all labor, equipment, materials, and supervision be furnished to receive, cart, and dispose of grit, screenings, and skimmings from the District's Wastewater Treatment Plant, 2020 Wake Avenue, Oakland, California.

1. The grit, screenings, and skimmings shall become the property of the Contractor at the time the material leaves the District's hoppers. Therefore, it is the Contractor's responsibility to make any and all arrangements with landfills for disposal or reuse facilities for recycling. The District has provided with this proposal package, the latest available analysis reports for grit and for skimmings (there is none for screenings) as EXHIBIT D EBMUD Laboratory Reports. The District will provide updated standard analytical reports on or about April 1 and October 1 of each contract year for the analytes listed below. If additional standard analytical test frequencies are required by a landfill or regulatory agency at any other time of the year, the District shall be notified by the Contractor and given a minimum of two months lead time for completing and submitting the standard analytical reports to the Contractor. Requests must be made to **both** the Wastewater Treatment Superintendent and the Environmental Compliance Section EH&S Specialist assigned to Wastewater, or their designees. These contacts will be provided to the hauler after the contract is awarded. Any additional lab analyses other than the standard test results provided in Exhibit D of this RFQ, must be performed by a commercial lab of the Contractor's choosing and at the Contractor's expense.

List of Analytical Tests Provided by District

TPH Gas, Motor Oil, Diesel

CAM 17 metals

Volatiles

Semi Volatiles

Total Oil and Grease

Petroleum Fraction Oil and Grease

2. THE MATERIAL

Composition

The material as received by the Contractor would be grit from overhead grit hoppers and screenings from an overhead conveyer which deposits into a receptacle provided by the Contractor.

The grit weighs approximately 1.1375 tons per cubic yard and one ton is equal to approximately 6/7 cubic yard. Grit may include gravel, sand, silt, seeds, coffee grounds, shells, pits, and other somewhat similar materials.

The screenings are trash and debris that are removed from the fine screens at the treatment plant headworks. Screenings trash may consist of paper, plastic, rags,

wood, rocks, large pieces of organic material, and other coarse debris. Screenings weigh approximately 0.75 tons per cubic yard.

The skimmings are made up of fats, cooking oils and greases, plastic and rubber products. Skimmings weigh approximately 0.8 tons per cubic yard.

Notice is hereby given that the nature of the grit, screenings and skimmings material may change depending on the type of influent received for processing. Bidders should be aware that the grit, screenings and skimmings may contain raw sludge particles and pathogenic microorganisms and may be odorous.

The District does not guarantee the condition, quality, or quantity of the grit, screenings and skimmings. The Contractor shall be responsible for ensuring that the methods and disposal sites proposed and used for this material comply with all local, State and Federal regulatory and legal requirements **and that the grit, screenings and skimmings are acceptable to the proposed landfill, disposal site, or reuse site.**

3. EQUIPMENT REQUIRED

It shall be the Contractor's responsibility to have equipment available and provide capacity to receive the grit, screenings and skimmings whenever called for by the District. Note that the skimmings receptacle must be of sufficient size to accommodate two collector discharge chutes. **If at any time the grit hopper or the screening/grit or skimming receptacles fill beyond their capacities, the District shall dump the grit, screenings and skimming on the ground or have the material hauled by others, with costs deducted from amounts due the Contractor. It will be the responsibility of the Contractor to bring in loading equipment to load any grit, screenings and skimmings dumped on the ground. If the Contractor fails to perform the loading of such material that has accumulated on the ground within 24 hours, then the District may elect to have this job performed by others and deduct the cost incurred from any amounts due the Contractor.**

The Contractor may be called upon to provide onsite an additional receptacle in which the loaded skimmings would be transported about 300 yards away and pumped/transferred into the District's anaerobic digesters. The evacuation of skimmings from the receptacle into the digesters could take from thirty minutes to two hours depending upon the receptacle and pumping configuration. The transporting of the skimmings to the District digesters could be in lieu of, or in addition to, off-site hauling, depending upon the quantity at any given day. It is estimated that 200 hours annually may be involved in this type of transport.

Bidders should submit bids for hourly rate for this skimmings-to-digesters transport on Item 2 of the Bidding Sheet.

The Contractor shall be solely responsible for the condition of all provided equipment. Only equipment in good working condition is acceptable. The District reserves the right to inspect any and all equipment and to reject all pieces found to be in unsatisfactory condition or doing unsatisfactory work. All equipment must be watertight. All receptacles must be equipped with decant valve(s) as deemed necessary by the District. Any equipment used must allow the screenings room door to be closed at all times. Trailers and drop boxes must be covered during transport to minimize odors.

In the event of any rejection by the District, the Contractor must remove the unsatisfactory equipment and replace it with good and acceptable equipment.

The Contractor must furnish only experienced and skilled operators and other personnel as required.

The District will not be responsible for damage to or theft of any property of the Contractor or the Contractor's agents on the site or off of District property.

4. POSSESSION, TRANSPORTATION AND DISPOSAL

The grit, screenings and skimmings shall become the property of the Contractor at the time the material leaves the District's hoppers. The Contractor shall thereafter be responsible for the transportation, storage, use, or disposal of the material in a lawful manner in accordance with the Regional Water Quality Control Board, the California Department of Public Health, the California Integrated Waste Management Board, and any other applicable local, State, and Federal agency legal and regulatory requirements. Any spillage or discharge of material to District or public roads shall be cleaned up promptly by the Contractor. If the District is required to clean up spillage, all costs incurred shall be deducted from amounts due to the Contractor. Any permits, dumping fees, or taxes shall be borne by the Contractor.

The Contractor shall be responsible for controlling and abating any odor, spillage, insect, vermin, and any other nuisance arising from his operation and shall maintain his equipment in a clean and professional manner.

If the disposal site identified on the Questionnaire changes during the term of the contract, Contractor shall notify the District in writing within two (2) weeks of the change. Contractor is responsible for profiling waste and obtaining approval from

any new disposal sites identified prior to proposing the change. The Contractor is responsible for all local, State and Federal legal and regulatory requirements for the lawful transport of the wastewater grit, screenings and skimmings, including the possession of necessary PUC or other licenses, permits, etc., where applicable. The Contractor shall not exceed the gross highway weight allowance in pounds when loaded based on the length of the truck (bridge law) or 80,000 lbs. whichever is lower.

If, during the term of the contract, changes to Federal, State or local laws or regulations preclude acceptance of the grit, screenings and skimmings to the disposal sites listed on Item 4 of the Questionnaire, the District and Contractor agree to meet and renegotiate the appropriate terms of the contract, subject to District approval.

5. RESPONSIBILITY OF CONTRACTOR

The District assumes no responsibility whatsoever for loss or damage of equipment owned or operated by the Contractor, his agents, or employees.

All safety orders, rules, and recommendations of the Division of Industrial Safety of the Department of Industrial Relations of the State of California applicable to the work to be done under this proposal shall be obeyed and enforced by the Contractor. The Contractor shall comply with all applicable Federal, State, and local laws, ordinances, codes, and regulations.

Drivers employed by the Contractor or subcontractor shall exceed neither driving time nor working hours permitted by California law. Drivers shall be limited to a maximum of sixteen (16) working hours per twenty-four (24) hour period, with no more than twelve (12) hours of driving time during that work period, as stated in Title 13 of the California Code of Regulations including but not limited to Chapter 6.5. Time spent on-site, either waking or sleeping, is to be considered as part of the work period.

The Contractor shall assign a qualified person to be in charge of its District operations. The Contractor will also assign a qualified person as Contract Administrator. The person in charge of operations shall be available to the District at all times to make decisions regarding work under this contract. The Contractor must provide phone numbers for all contacts.

D. DELIVERABLES / REPORTS**Daily Output**

The District's estimated daily output of grit and screenings from the main Wastewater Treatment Plant is 6.500 tons. The total solids concentration for grit and screenings ranges from 30% to 60% and 20% to 40%, respectively. Skimmings output is estimated at 2.600 tons per day. The total solids concentration for skimmings will be in the 40% to 60% range. The output of the material can vary with no maximum or minimum guarantees.

The Contractor must be able to pick up grit, screenings and skimmings on demand (4-hour notice). Grit and screenings require removal approximately once per day during dry weather conditions. Maximum loads are expected during heavy rainfall and may require pick up twice per day during wet weather events. The skimmings pickups are normally twice per week and on occasions three times per week.

The Wastewater Treatment Plant operates 365 days per year, 24-hours per day. Contractor must be able to respond on any day and time, including weekends and holidays.

II. CALENDAR OF EVENTS

EVENT	DATE/LOCATION
RFQ Issued	June 4, 2015
Response Due	July 1, 2015 by 1:30 p.m.
Anticipated Contract Start Date	September 1, 2015

Note: All dates are subject to change.

Bidders are responsible for reviewing <http://ebmud.com/business> for any published addenda. Hard copies of addenda will not be mailed out.

III. DISTRICT PROCEDURES, TERMS, AND CONDITIONS**A. RFQ ACCEPTANCE AND AWARD**

1. RFQ responses will be evaluated to determine that they are responsive, responsible, and that they meet the specifications as stated in this RFQ.

2. The District reserves the right to award to a single or to multiple Contractors, dependent upon what provides the lowest overall cost to the District.
3. The District has the right to decline to award this contract or any part of it for any reason.
4. Any specifications, terms or conditions, issued by the District, or those included in the bidder's submission, in relation to this RFQ, may be incorporated into any PO or contract that may be awarded as a result of this RFQ.
5. Award of contract. The right is reserved to reject any or all proposals, to accept one part of a proposal and reject the other, unless the bidder stipulates to the contrary, and to waive technical defects, as the interest of the District may require. Award will be made or proposals rejected by the District as soon as possible after bids have been opened.
6. Bids will be evaluated and a contract will be awarded to the responsive/responsible bidder offering the lowest cost to the District, including any payment discount offered.
7. The District reserves the right to accept or reject any or all proposals and to waive technical defects as the interest of the District may require.
8. The bidder to whom a contract is awarded will be required to furnish and update, as necessary, a list of telephone numbers and names of responsible parties to be called on a 24 hours, 7 days a week basis in the event of an emergency or unusual operational conditions.

B. DEVIATIONS, AND EXCEPTIONS

Taking exception to the RFQ, or failure on the part of the bidder to comply with all requirements and conditions of this RFQ, may subject the RFQ response to rejection. If no deviations are shown, the bidder will be required to perform services as specified. The burden of proof of compliance with the specifications will be the responsibility of the bidder.

This RFQ is subject to acceptance only on the terms and conditions stated in this RFQ. Any additional or different terms and conditions proposed by the bidder are hereby rejected, and shall be of no force or effect unless expressly assented to in writing by the District.

C. PRICING

1. All prices quoted shall be in United States dollars.

2. Price quotes shall include any and all payment incentives available to the District.
3. Bidders are advised that in the evaluation of cost, if applicable, it will be assumed that the unit price quoted is correct in the case of a discrepancy between the unit price and extended price.

D. PRICE ADJUSTMENTS

The term of the contract shall be for a three-year period beginning September 1, 2015, and ending August 31, 2018 with two options to extend for additional one-year periods at the sole discretion of the District.

Price adjustments during the initial contract term and any extension will be limited to one (1) annual change in dump fees and one (1) annual change in regulations resulting in changes in the handling, transportation, or disposal costs. Contractor bears the responsibility of providing conclusive proof that such changes in cost have taken place, and no such change shall take effect without prior written approval from the District.

Prices for fuel will remain firm during the first year of the contract. Thereafter, requests to review prices for adjustment due to diesel price fluctuations will be considered. Requests for price adjustment on the basis of fuel costs may be submitted by the winning bidder 60 days prior to the end of the first year of the contract (July 1, 2016) and 60 days prior to the end of each subsequent year of the contract. If granted, price adjustments will be implemented effective the date of the subsequent year of the contract, e.g., September 1, 2016.

Price adjustment requests will be considered only as they relate to diesel fuel costs. Changes to other price effecting cost elements such as labor, material, overhead and general sales and administration costs will not be considered as cause to adjust prices. Price adjustments based on fuel may be cause to adjust prices up or down. Price adjustment requests submitted after a new 12-month term is initiated will not be considered for adjustment until the next 12-month District approved extension begins.

The index to determine the amount of price adjustment the District will allow will come from information gathered from the Energy Information Administration. Their web site is <http://tonto.eia.doe.gov/oog/info/wohdp/diesel.asp> and the information will be taken from the California data. The allowable percent change will be calculated by dividing the index dated May 1st of the previous year into May 1st index of the current year. The effective date of all related adjustments will be effective July 1st.

To calculate the amount of price adjustment this proposal will assume the cost of fuel to be 4% of total price regardless of which vendor is ultimately identified as the lowest

responsible/responsive bidder and regardless of the actual fuel to price ratio. An EXAMPLE of how this calculation will work is as follows:

The effective date of this contract is July 1, 2015. The California diesel fuel index for May 1, 2015, according to the Energy Information Administration is 2.80 (assumed number). The index for May 1, 2016 is 3.40. The percent of change in the index, therefore, is 21.4% $(3.40/2.80)-1 = 21.4\%$.

If the current price (low bid) is \$32.00/ton, then the fuel cost per ton is determined to be \$1.28 $(4\% \times \$32 = \$1.28)$.

Given a 21.4% increase in the index, the allowable adjustment is \$0.27/ton $(21.4\% \times \$1.28 = \$0.274)$.

The new price effective July 1 of the next year, therefore, will be \$32.27/ton $(\$32.00 + \$0.27 = \$32.27)$.

E. PROTESTS

Protests must be in writing and must be received no later than seven (7) business days after either of the following: posting of the RFQ results on the District's website (www.ebmud.com), or notification of selection/non-selection, whichever is sooner. The District will reject the protest as untimely if it is received after this specified time frame. Protests will be accepted from bidders or potential bidders only.

If the protest is mailed and not received by the District, the protesting party bears the burden of proof to submit evidence (e.g., certified mail receipt) that the protest was sent in a timely manner so that it would be received by the District within the RFQ protest period.

All protests must contain a detailed and complete written statement describing the reason(s) for protest and include the name, telephone number, and address of the protestor or the person representing the protestor. Protests must be mailed or hand delivered to the Manager of Purchasing, East Bay Municipal Utility District, 375 Eleventh Street, Oakland, CA 94607 or PO Box 24055, Oakland, CA 94623. Facsimile and electronic mail protests must be followed by a mailed or hand delivered identical copy of the protest.

The bid protester can appeal the determination to the requesting organization's Department Director. The appeal must be submitted to the Department Director no later than five working days from the date of receipt of the requesting organization's determination on the protest.

Such an appeal must be made in writing and must include all grounds for the appeal and copies of the original protest and the District's response. The bid protester must also send the Purchasing Division a copy of all materials sent to the Department Director. The Department Director will make a determination of the appeal and respond to the protester by certified mail in a timely manner. If the appeal is denied, the letter will include the date, time, and location of the Board of Directors meeting at which staff will make a recommendation for award and inform the protester it may request to address the Board of Directors at that meeting.

The District may transmit copies of the protest and any attached documentation to all other parties who may be affected by the outcome of the protest. The decision of the District as to the validity of any protest is final. This District's final decision will be transmitted to all affected parties in a timely manner.

F. TERM / TERMINATION / RENEWAL

1. The term of the contract, which may be awarded pursuant to this RFQ, will be three years.
2. At the sole discretion of the District, any contract which may be awarded pursuant to this RFQ, may be extended for two (2) additional one-year terms at agreed prices with all other terms and conditions remaining the same. In the event that a Contractor does not agree to an extension, the District shall be given a minimum of 90 days notice to locate a suitable replacement contractor.
3. This Agreement may be terminated for convenience by the District provided the Contractor is given written notice of not less than 30 days. If this Agreement is terminated, Contractor shall be entitled to compensation for services satisfactorily performed to the effective date of termination. This shall be the sole and exclusive remedy to which Contractor is entitled in the event of termination of the Agreement, and Contractor shall be entitled to no other compensation or damages and expressly waives same.
4. This Agreement may be terminated for cause at any time, provided that the District notifies Contractor of impending action.

G. INVOICING

1. Payment will be made on a per ton basis as measured by certified weight tickets. The Contractor shall submit delivery tags to the District's representative for each load.
2. At a minimum, all tags will include the District employee's name, employee number and date. This employee will review and approve tags for payment.

3. Payment will be made within thirty (30) days following receipt of a correct invoice and upon complete satisfactory performance of services
4. The District shall notify Contractor of any invoice adjustments required.
5. Invoices shall contain, at a minimum, District PO number, invoice number, remit to address, and itemized products and/or services description.
6. The District will pay Contractor in an amount not to exceed the total amount quoted in the RFQ response.

IV. RFQ RESPONSE SUBMITTAL INSTRUCTIONS AND INFORMATION

A. DISTRICT CONTACTS@

All contact during the competitive process is to be through the contact listed on the first page of this RFQ. The following persons are only to be contacted for the purposes specified below.

TECHNICAL SPECIFICATIONS:

Attn: Robert Ciernik, Wastewater Shift Supervisor
EBMUD Wastewater Treatment
E-Mail: rciernik@ebmud.com
PHONE: (510) 287-1457

CONTRACT EQUITY PROGRAM:

Attn: Contract Equity Office
PHONE: (510) 287-0114

AFTER AWARD:

Attn: Robert Ciernik, Wastewater Shift Supervisor
EBMUD-Wastewater Treatment
E-Mail: rciernik@ebmud.com
PHONE: (510) 287-1457

B. SUBMITTAL OF RFQ RESPONSE

1. Late and/or unsealed responses will not be accepted.
2. RFQ responses submitted via electronic transmissions will not be accepted. Electronic transmissions include faxed RFQ responses or those sent by electronic mail ("e-mail").

3. RFQ responses will be received only at the address shown below, must be SEALED, and must be received at the District Purchasing Division by 1:30 p.m. on the due date specified in the Calendar of Events. Any RFQ response received after that time or date or at a place other than the stated address cannot be considered and will be returned to the bidder unopened.

All RFQ responses must be received and time stamped at the stated address by the time designated. The Purchasing Division's timestamp shall be considered the official timepiece for the purpose of establishing the actual receipt of RFQ responses.

4. RFQ responses are to be addressed/delivered as follows:

Mailed:

Andrew Akelman, Manager of Purchasing
East Bay Municipal Utility District
Hauling and Disposal of Wastewater Grit, Screenings and Skimmings
RFQ No. 1521
EBMUD–Purchasing Division
P.O. Box 24055
Oakland, CA 94623

Hand Delivered or delivered by courier or package delivery service:

Andrew Akelman, Manager of Purchasing
East Bay Municipal Utility District
Hauling and Disposal of Wastewater Grit, Screenings and Skimmings
RFQ No. 1521
EBMUD–Purchasing Division
375 Eleventh Street, First Floor
Oakland, CA 94607

Bidder's name, return address, and the RFQ number and title must also appear on the mailing package.

5. Bidders are to submit one (1) original hardcopy and one (1) copy RFQ response (Exhibit A – RFQ Response Packet, including Contract Equity Program forms and all additional documentation stated in the “Required Documentation and Submittals” section of Exhibit A), all with original ink signatures.
6. All costs required for the preparation and submission of an RFQ response shall be borne by the bidder.
7. California Government Code Section 4552: In submitting an RFQ response to a public purchasing body, the bidder offers and agrees that if the RFQ response is

accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2, commencing with Section 16700, of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the RFQ response. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.

8. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms “claim” and “knowingly” are defined in the California False Claims Act, Cal. Gov. Code, §12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act.
9. The RFQ response shall remain open to acceptance and is irrevocable for a period of one hundred eighty (180) days, unless otherwise specified in the RFQ documents.
10. It is understood that the District reserves the right to reject any or all RFQ responses.

C. RESPONSE FORMAT

1. **Bidders shall not modify any part of Exhibits A, B, or C, or qualify their RFQ responses. Bidders shall not submit to the District a re-typed or otherwise re-created version of these documents or any other District-provided document.**
2. RFQ responses, in whole or in part, are NOT to be marked confidential or proprietary. The District may refuse to consider any RFQ response or part thereof so marked. RFQ responses submitted in response to this RFQ may be subject to public disclosure. The District shall not be liable in any way for disclosure of any such records.



EXHIBIT A

RFQ RESPONSE PACKET

RFQ No. 1521 – HAULING AND DISPOSAL OF WASTEWATER GRIT, SCREENINGS AND SKIMMINGS

To: The EAST BAY MUNICIPAL UTILITY District (“District”)

From: _____
(Official Name of Bidder)

RFQ RESPONSE PACKET GUIDELINES

- **AS DESCRIBED IN SECTION IV- RFQ RESPONSE SUBMITTAL INSTRUCTIONS AND INFORMATION, BIDDERS ARE TO SUBMIT ONE (1) ORIGINAL HARDCOPY RFQ RESPONSE WITH ORIGINAL INK SIGNATURES, AND ONE (1) COPY CONTAINING THE FOLLOWING, IN THEIR ENTIRETY:**
 - **EXHIBIT A – RFQ RESPONSE PACKET, INCLUDING CONTRACT EQUITY PROGRAM FORMS AND ALL ADDITIONAL REQUIRED DOCUMENTATION AS DESCRIBED IN EXHIBIT A - “REQUIRED DOCUMENTATION AND SUBMITTALS”**
- **ALL PRICES AND NOTATIONS MUST BE PRINTED IN INK OR TYPEWRITTEN; NO ERASURES ARE PERMITTED; ERRORS MAY BE CROSSED OUT AND CORRECTIONS PRINTED IN INK OR TYPEWRITTEN ADJACENT, AND MUST BE INITIALED IN INK BY PERSON SIGNING THE RFQ RESPONSE.**
- **BIDDERS THAT DO NOT COMPLY WITH THE REQUIREMENTS, AND/OR SUBMIT AN INCOMPLETE RFQ RESPONSE MAY BE SUBJECT TO DISQUALIFICATION AND THEIR RFQ RESPONSE REJECTED IN TOTAL.**
- **IF BIDDERS ARE MAKING ANY CLARIFICATIONS AND/OR AMENDMENTS, OR TAKING EXCEPTION TO ANY PART OF THIS RFQ, THESE MUST BE SUBMITTED IN THE EXCEPTIONS, CLARIFICATIONS, AND AMENDMENTS SECTION OF THIS EXHIBIT A – RFQ RESPONSE PACKET. THE DISTRICT, AT ITS SOLE DISCRETION, MAY ACCEPT AMENDMENTS/EXCEPTIONS, OR MAY DEEM THEM TO BE UNACCEPTABLE, THEREBY RENDERING THE RFQ RESPONSE DISQUALIFIED.**



BIDDER INFORMATION AND ACCEPTANCE

1. The undersigned declares that all RFQ documents, including, without limitation, the RFQ, Addenda, and Exhibits, have been read and that the terms, conditions, certifications, and requirements are agreed to.
2. The undersigned is authorized to offer, and agrees to furnish, the articles and services specified in accordance with the RFQ documents of RFQ No. 1521.
3. The undersigned acknowledges acceptance of all addenda related to this RFQ. List Addenda for this RFQ on the lines below:

Addendum #	Date

4. The undersigned hereby certifies to the District that all representations, certifications, and statements made by the bidder, as set forth in this RFQ Response Packet and attachments, are true and correct and are made under penalty of perjury pursuant to the laws of California.
5. The undersigned acknowledges that the bidder is, and will be, in good standing in the State of California, with all the necessary licenses, permits, certifications, approvals, and authorizations necessary to perform all obligations in connection with this RFQ and associated RFQ documents.
6. It is the responsibility of each bidder to be familiar with all of the specifications, terms, and conditions and, if applicable, the site condition. By the submission of an RFQ response, the bidder certifies that if awarded a contract it will make no claim against the District based upon ignorance of conditions or misunderstanding of the specifications.
7. Patent indemnity: Contractors who do business with the District shall hold the District, its Directors, officers, agents, and employees, harmless from liability of any nature or kind, including cost and expenses, for infringement or use of any patent, copyright, or other proprietary right, secret process, patented or unpatented invention, article, or appliance furnished or used in connection with the contract or purchase order.

8. Insurance certificates are not required at the time of submission. However, by signing Exhibit A – RFQ Response Packet, the bidder agrees to meet the minimum insurance requirements stated in the RFQ. This documentation must be provided to the District prior to execution of an agreement by the District, and shall include an insurance certificate which meets the minimum insurance requirements, as stated in the RFQ.
9. The undersigned bidder hereby submits this RFQ response and binds itself on award to the District under this RFQ to execute in accordance with such award a contract and to furnish the bond or bonds and insurance required by the RFQ. The RFQ, subsequent Addenda, bidder's Response Packet, and any attachments, shall constitute the Contract, and all provisions thereof are hereby accepted.
10. The undersigned acknowledges **ONE** of the following (please check only one box)*:

- ☐ Bidder is not an SBE and is ineligible for any bid preference; **OR**
- ☐ Bidder is an SBE as described in the Contract Equity Program (CEP) and Equal Employment Opportunity (EEO) Guidelines, is requesting a 5% bid preference, and has completed the Contract Equity Program and Equal Employment Opportunity forms at the hyperlink contained in the Contract Equity Program and Equal Opportunity section of this Exhibit A.

*If no box is checked, it will be assumed that the bidder is ineligible for bid preference and none will be given. For additional information on SBE bid preference, please refer to the Contract Equity Program and Equal Employment Opportunity Guidelines at the above referenced hyperlink.

Official Name of Bidder (exactly as it appears on Bidder's corporate seal and invoice): _____

Street Address Line 1: _____

Street Address Line 2: _____

City: _____ State: _____ Zip Code: _____

Webpage: _____

Type of Entity / Organizational Structure (check one):

- | | |
|--|--|
| <input type="checkbox"/> Corporation | <input type="checkbox"/> Joint Venture |
| <input type="checkbox"/> Limited Liability Partnership | <input type="checkbox"/> Partnership |
| <input type="checkbox"/> Limited Liability Corporation | <input type="checkbox"/> Non-Profit / Church |
| <input type="checkbox"/> Other: _____ | |

Jurisdiction of Organization Structure: _____

Date of Organization Structure: _____

Federal Tax Identification Number: _____

Primary Contact Information:

Name / Title: _____

Telephone Number: _____ Fax Number: _____

E-mail Address: _____

Street Address Line 1: _____

City: _____ State: _____ Zip Code: _____

SIGNATURE: _____

Name and Title of Signer (printed): _____

Dated this _____ day of _____ 20_____



BID FORM

Cost shall be submitted on this Bid Form as is. The prices quoted shall not include Sales Tax or Use Tax; said tax, wherever applicable, will be paid by the District to the contractor, if licensed to collect, or otherwise directly to the State.

No alterations or changes of any kind to the Bid Form(s) are permitted. RFQ responses that do not comply may be subject to rejection in total. The cost quoted below shall be the cost the District will pay for the term of any contract that is a result of this RFQ process.

Quantities listed herein are annual estimates based on past usage and are not to be construed as a commitment. No minimum or maximum is guaranteed or implied.

Item	Estimated Annual Quantity	Description	Per Unit Rate	Annual Total
1	3,300 tons	Furnish fully maintained and operated equipment to receive, cart, and dispose of grit, screenings and skimmings from hoppers on a continuous daily basis as directed and for the period July <u>September</u> 1, 2015 to August <u>June</u> 30, 2018. Per ton rate includes \$ _____ per ton for dumping fee.	\$_____/ton	\$_____
2	200 hours	Furnish fully maintained and operated equipment to transport skimmings to District's anaerobic digesters.	\$_____/hr.	\$_____
TOTAL SCHEDULE				\$_____

NOTE: QUESTIONNAIRE ON THE FOLLOWING PAGES MUST BE SUBMITTED WITH BID.



QUESTIONNAIRE

HAULING AND DISPOSAL OF WASTEWATER GRIT, SCREENINGS AND SKIMMINGS

The Bidder shall supply the following information:

1. Quantity, type, size, and age of equipment proposed

2. Address where equipment may be inspected

3. Statement of job plan including planned storage capacity available on the job at all times, number of personnel, etc.

4. Disposal site or sites for grit, screenings and skimmings (name, location, and approved site classification) and name/phone number of contact person



QUESTIONNAIRE

HAULING AND DISPOSAL OF WASTEWATER GRIT, SCREENINGS AND SKIMMINGS

5. Detailed description of disposal method including storage, handling, and final disposition

- 6a. List subcontractors for hauling and percentage of work they will perform.

- 6b. State how subcontractors will be scheduled throughout the term of the contract.

- 7a. Enter here the "straight time" hourly rate for the hauler/driver classification embedded in your bid price. This rate must include the following employer payments: basic hourly rate, health and welfare costs, pension, vacation/holiday, and training.

\$_____ per hour

- 7b. Enter here the "overtime hourly rates" for the hauler/driver classification embedded in your bid price. These rates must include the following employer payments: basic hourly rate, health and welfare costs, pension, vacation/holiday, and training:

- | | |
|----------------------------------|------------------|
| 1) Daily Overtime Rate: | \$_____ per hour |
| 2) Saturday Overtime Rate: | \$_____ per hour |
| 3) Sunday/holiday Overtime Rate: | \$_____ per hour |



REQUIRED DOCUMENTATION AND SUBMITTALS

All of the specific documentation listed below is required to be submitted with the Exhibit A – RFQ Response Packet. Bidders shall submit all documentation, in the order listed below, and clearly label each section of the RFQ response with the appropriate title (i.e. Table of Contents, Letter of Transmittal, Key Personnel, etc.).

1. References

- (a) Bidders must use the templates in the “References” section of this Exhibit A – RFQ Response Packet to provide references.
- (b) References should have similar scope, volume, and requirements to those outlined in these specifications, terms, and conditions.
 - Bidders must verify the contact information for all references provided is current and valid.
 - Bidders are strongly encouraged to notify all references that the District may be contacting them to obtain a reference.
- (c) The District may contact some or all of the references provided in order to determine Bidder’s performance record on work similar to that described in this RFQ. The District reserves the right to contact references other than those provided in the RFQ response.

2. Exceptions, Clarifications, Amendments:

- (a) The RFQ response shall include a separate section calling out all clarifications, exceptions, and amendments, if any, to the RFQ and associated RFQ documents, which shall be submitted with Bidder’s RFQ response using the template in the “Exceptions, Clarifications, Amendments” section of this Exhibit A – RFQ Response Packet.
- (b) **THE DISTRICT IS UNDER NO OBLIGATION TO ACCEPT ANY EXCEPTIONS, AND SUCH EXCEPTIONS MAY BE A BASIS FOR RFQ RESPONSE DISQUALIFICATION.**

3. Contract Equity Program:

- (a) Every bidder must fill out, sign, and submit the appropriate sections of the Contract Equity Program and Equal Employment Opportunity documents located at the hyperlink contained in the last page of this Exhibit A. **Special attention should be given to completing Form P-25, "Contractor Employment Data and Certification"; and Form P-46, "Designation of Subcontractors."** Any bidder needing assistance in completing these forms should contact the District's Contract Equity Office at (510) 287-0114 prior to submitting an RFQ response.



REFERENCES

RFQ No. 1521 – HAULING AND DISPOSAL OF WASTEWATER GRIT, SCREENINGS AND SKIMMINGS

Bidder Name: _____

Bidder must provide a minimum of three (3) references.

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	

Company Name:	Contact Person:
Address:	Telephone Number:
City, State, Zip:	E-mail Address:
Services Provided / Date(s) of Service:	



EXCEPTIONS, CLARIFICATIONS, AMENDMENTS

RFQ No. 1521 – HAULING AND DISPOSAL OF WASTEWATER GRIT, SCREENINGS AND SKIMMINGS

Bidder Name: _____

List below requests for clarifications, exceptions, and amendments, if any, to the RFQ and associated RFQ Documents, and submit with bidder's RFQ response. **The District is under no obligation to accept any exceptions and such exceptions may be a basis for RFQ response disqualification.**

Reference to:			Description
Page No.	Section	Item No.	
p. 23	D	1.c.	<i>Bidder takes exception to...</i>



CONTRACT EQUITY PROGRAM & EQUAL EMPLOYMENT OPPORTUNITY

The District's Board of Directors adopted the Contract Equity Program (CEP) to enhance equal opportunities for business owners of all races, ethnicities, and genders who are interested in doing business with the District. The program has contracting objectives, serving as the minimum level of expected contract participation for the three availability groups: white-men owned businesses, white-women owned businesses, and ethnic minority owned businesses. The contracting objectives apply to all contracts that are determined to have subcontracting opportunities, and to all contractors regardless of their race, gender or ethnicity.

All Contractors and their subcontractors performing work for the District must be Equal Employment Opportunity (EEO) employers, and shall be bound by all laws prohibiting discrimination in employment. There shall be no discrimination against any person, or group of persons, on account of race, color, religion, creed, national origin, ancestry, gender including gender identity or expression, age, marital or domestic partnership status, mental disability, physical disability (including HIV and AIDS), medical condition (including genetic characteristics or cancer), genetic information, or sexual orientation.

Contractor and its subcontractors shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientation, gender identity, or national origin in the performance of this contract. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, national origin, protected veteran status or disability.

All Contractors shall include the nondiscrimination provisions above in all subcontracts.

Please include the required completed forms with your bid.

Non-compliance with the Guidelines may deem a bid non-responsive, and therefore, ineligible for contract award. Your firm is responsible for:

- 1) Reading and understanding the CEP guidelines at the following direct link:
[Contract Equity Program Guidelines](#)
- 2) Filling out and submitting with your bid the appropriate forms at the following direct link:
[Contract Equity Program Forms](#)

The CEP guidelines and forms can also be downloaded from the District website at the following link:

<http://www.ebmud.com/business/contract-equity-program/contract-equity-guidelines-and-forms>

If you have questions regarding the Contract Equity Program please call (510) 287-0114.



EXHIBIT B

INSURANCE REQUIREMENTS

Insurance certificates are not required at the time of submission; however, by signing Exhibit A – RFQ Response Packet, the bidder agrees to meet the minimum insurance requirements stated in the RFQ. This documentation must be provided to the District, prior to award.

The following are the minimum insurance limits, required by the District, to be held by the Contractor performing on this RFQ:

INDEMNIFICATION AND INSURANCE

A. Indemnification

CONTRACTOR expressly agrees to defend, indemnify, and hold harmless the District and its Directors, officers, agents, and employees from and against any and all loss, liability, expense, claims, suits, and damages, including attorneys' fees, arising out of or resulting from CONTRACTOR's, its associates', employees', subcontractors', or other agents' negligent acts, errors or omissions, or willful misconduct, in the operation and/or performance under this Agreement.

B. Insurance Requirements

CONTRACTOR shall take out and maintain during the life of the Agreement all the insurance required in this section, and if requested shall submit certificates for review and approval by the District. The Notice to Proceed shall not be issued, and CONTRACTOR shall not commence work until such insurance has been approved by the District. The certificates shall be on forms approved by the District. Acceptance of the certificates shall not relieve CONTRACTOR of any of the insurance requirements, nor decrease the liability of CONTRACTOR. The District reserves the right to require CONTRACTOR to provide insurance policies for review by the District.

C. Workers Compensation Insurance

CONTRACTOR shall take out and maintain during the life of the Agreement Workers Compensation Insurance for all of its employees on the project. In lieu of evidence of Workers Compensation Insurance, the District will accept a Self-Insured Certificate from the State of California. CONTRACTOR shall require any subcontractor to provide it with evidence of Workers Compensation Insurance.

D. Commercial General Liability Insurance

CONTRACTOR shall take out and maintain during the life of the Agreement Automobile and General Liability Insurance that provides protection from claims which may arise from

operations or performance under this Agreement. If CONTRACTOR elects to self-insure (self-fund) any liability exposure during the contract period above \$50,000, CONTRACTOR is required to notify the District immediately. Any request to self-insure must first be approved by the District before the changed terms are accepted. CONTRACTOR shall require any subcontractor to provide evidence of liability insurance coverages.

The amounts of insurance shall be not less than the following:

\$2,000,000/Occurrence, Bodily Injury, Property Damage -- Automobile.

\$2,000,000/Occurrence, Bodily Injury, Property Damage -- General Liability.

The following coverages or endorsements must be included in the policy(ies):

1. The District, its Directors, officers, and employees are Additional Insureds in the policy(ies) as to the work being performed under the contract.
2. The coverage is *Primary and non-contributory* to any other applicable insurance carried by the District.
3. The policy(ies) covers *contractual liability*.
4. The policy(ies) is written on an *occurrence* basis.
5. The policy(ies) covers the District's Property in Consultant's care, custody, and control.
6. The policy(ies) covers *personal injury* (libel, slander, and wrongful entry and eviction) liability.
7. The policy(ies) covers explosion, collapse, and underground hazards.
8. The policy(ies) covers *products and completed operations*.
9. The policy(ies) covers the use of *owned, non-owned* and hired automobiles.
10. The policy(ies) and/or a separate pollution liability policy(ies) shall cover pollution liability for claims related to the release or the threatened release of pollutants into the environment arising out of or resulting from Consultant's performance under this agreement.
11. The policy(ies) will not be canceled nor the above coverages/endorsements reduced without 30 days written notice to East Bay Municipal Utility District at the address above.

EXHIBIT C

GENERAL REQUIREMENTS

GENERAL REQUIREMENTS

CONTENTS

1. DEFINITIONS
2. BOND
3. CONTRACTOR'S FINANCIAL OBLIGATION
4. SAMPLES OR SPECIMENS
5. MATERIAL AND WORKMANSHIP
6. DEFECTIVE WORK
7. WARRANTY OF TITLE
8. WARRANTY OF FITNESS
9. SAFETY AND ACCIDENT PREVENTION
10. CHARACTER OF WORKFORCE
11. PREVAILING WAGES
12. PAYROLL RECORDS
13. HOURS OF LABOR
14. EMPLOYMENT OF APPRENTICES
15. CHANGES
16. EFFECT OF EXTENSIONS OF TIME
17. DELAYS
18. TERMINATION
19. DAMAGES
20. ORDER OF PRECEDENCE
21. INDEMNIFICATION/RESPONSIBILITY
22. ASSIGNMENTS
23. NEWS RELEASES
24. TRANSFER OF INTEREST
25. SEVERABILITY
26. COVENANT AGAINST GRATUITIES
27. RIGHTS AND REMEDIES OF THE DISTRICT
28. WAIVER OF RIGHTS
29. CONFIDENTIALITY

1. DEFINITIONS

The following terms shall be given the meaning shown, unless context requires otherwise or a unique meaning is otherwise specified.

- a. **Change Order** A Change Order is a written instrument used for modifying the contract with regards to the scope of Work, contract sum, and/or Contract Time. An approved Change Order is a Change Order signed by the District. An executed Change Order is a Change Order signed by both the District and the Contractor.

- b. **“Contract”** means the agreement between the District and Contractor as memorialized in the Contract Documents.
- c. **“Business Entity”** means any individual, business, partnership, joint venture, corporation, sole proprietorship, or other private legal entity recognized by statute.
- d. **“Buyer”** means the District’s authorized contracting official.
- e. **“Contract Documents”** comprise the entire agreement between the District and the Contractor and can include the District’s contract form if used, any purchase order, RFP, RFQ or Contractor response packet, and any addenda, appendices and District approved changes or amendments. The Contract Documents are intended to be complementary and include all items necessary for the Contractor’s proper execution and completion of the Work. Any part of the Work not shown or mentioned in the Contract Documents that is reasonably implied, or is necessary or usual for proper performance of the Work, shall be provided by the Contractor at its expense.
- f. **“Contractor”** means the Business Entity with whom the District enters into a contractual agreement. Contractor shall be synonymous with “supplier”, “vendor”, “consultant” or other similar term.
- g. **“Day”** unless otherwise specified, days are calendar days, measured from midnight to the next midnight.
- h. **“District”** means the East Bay Municipal Utility District, its employees acting within the scope of their authority, and its authorized representatives.
- i. **“Goods”** means off the shelf software and all types of tangible personal property, including but not limited to materials, supplies, and equipment.
- j. **“Project Manager”** shall be the District designated individual responsible for administering and interpreting the terms and conditions of the Contract Documents, for matters relating to the Contractor’s performance under the Contract with the District, and for liaison and coordination between the District and Contractor.
- k. **“Work”** means all labor, tasks, materials, supplies, and equipment required to properly fulfill the Contractor’s obligations as required in the Contract Documents.
- l. **“Work Day”** Unless otherwise specified, work day includes all days of the year except Saturdays, Sundays and District holidays.

2. BOND

- a. When required in the District’s bid or proposal solicitation documents, the Contractor to whom award is made shall furnish a good and approved faithful performance bond and/or payment bond within ten business days after receiving the forms for execution.
- b. The bonds shall be executed by a sufficient, admitted surety insurer (i.e.: as listed on website [http://interactive.web.insurance.ca.gov/webuser/idb_co_list\\$.startup](http://interactive.web.insurance.ca.gov/webuser/idb_co_list$.startup)) admitted to transact such business in California by the California Department of Insurance. After acceptance of the bond(s) by the District, a copy of the bond(s) will be

returned to the Contractor.

- c. If, during the continuance of the Contract, any of the sureties, in the opinion of the District, are or become irresponsible, the District may require other or additional sureties, which the Contractor shall furnish to the satisfaction of the District within ten days after notice. If the Contractor fails to provide satisfactory sureties within the ten-day period, the Contract may be terminated for cause under Article 18.

3. CONTRACTOR'S FINANCIAL OBLIGATION

The Contractor shall promptly make payments to all persons supplying labor and materials used in the execution of the contract.

4. SAMPLES OR SPECIMENS

The Contractor shall submit samples or prepare test specimens of such materials to be furnished or used in the work as the Project Manager may require.

5. MATERIAL AND WORKMANSHIP

- a. All goods and materials must be new and of the specified quality and equal to approved sample, if samples have been required. In the event any goods or materials furnished or services provided by the Contractor in the performance of the Contract fail to conform to the requirements, or to the sample submitted by the Contractor, the District may reject the same, and it shall become the duty of the Contractor to reclaim and remove the item promptly or to correct the performance of services, without expense to the District, and immediately replace all such rejected items with others conforming to the Contract. All work shall be done and completed in a thorough, workmanlike manner, notwithstanding any omission from these specifications or the drawings, and it shall be the duty of the Contractor to call attention to apparent errors or omissions and request instructions before proceeding with the work. The Project Manager may, by appropriate instructions, correct errors and supply omissions, which instructions shall be binding upon the Contractor as though contained in the original Contract Documents.
- b. All materials furnished and all Work must be satisfactory to the Project Manager. Work, material, or machinery not in accordance with the Contract Documents, in the opinion of the Project Manager, shall be made to conform.

6. DEFECTIVE WORK

The Contractor shall replace at its own expense any part of the work that has been improperly executed, as determined by the Project Manager. If Contractor refuses or neglects to replace such defective work, it may be replaced by the District at the expense of the Contractor, and its sureties shall be liable therefor.

7. WARRANTY OF TITLE

Contractor shall warrant to the District, its successors and assigns, that the title to the materials, supplies or equipment covered by the Contract, when delivered to the District or to its successors or assigns, is free from all liens and encumbrances.

8. WARRANTY OF FITNESS

Contractor hereby warrants that all materials furnished shall meet the requirements and conditions of the Contract Documents; shall be fit for the purposes intended and fulfill its design functions; be free of all patent and latent defects in design, materials and workmanship; and perform satisfactorily. It is understood and agreed that by acceptance of this warranty and the acceptance of the materials or supplies to be manufactured or assembled pursuant to these specifications, the District does not waive any warranty either expressed or implied in Sections 2312 to 2317, inclusive, of the Commercial Code of the State of California or any products liability of the Contractor as determined by any applicable decision of a court of the State of California or of the United States.

9. SAFETY AND ACCIDENT PREVENTION

In performing work under the Contract on District premises, Contractor shall conform to any specific safety requirements contained in the Contract or as required by law or regulation. Contractor shall take any additional precautions as the District may reasonably require for safety and accident prevention purposes. Any violation of such rules and requirements, unless promptly corrected, shall be grounds for termination of this Contract or Contractor's right to precede in accordance with the default provisions of the Contract Documents.

10. CHARACTER OF WORKFORCE

The Contractor shall employ none but skilled competent qualified personnel to perform the Work, and shall maintain discipline and order in the conduct of the Work at all times.

11. PREVAILING WAGES & DIR REGISTRATION

- a. Please see www.dir.ca.gov for further information regarding the below.
- b. All Contractors and Subcontractors of any tier bidding on, or offering to performing work on a public works project shall first be registered with the State Department of Industrial Relations (DIR) pursuant to Section 1725.5 of the Labor Code. No bid will be accepted nor any contract entered into without proof of the Contractor and Subcontractors' current registration with the DIR (LC § 1771.1).
- c. All public works projects awarded after January 1, 2015, are subject to compliance monitoring and enforcement by the DIR (LC § 1771.4) and all Contractors are required post job site notices, "as prescribed by regulation" (LC § 1771.4).
- d. To the extent applicable, pursuant to Section 1773 of the Labor Code, the District has obtained from the Director of Industrial Relations of the State of California, the general prevailing rates of per diem wages and the general prevailing rates for holiday and overtime work in the locality in which the Work is to be performed, for each craft, classification, or type of worker needed to execute the contract. Pursuant to Section 1773.2 of the Labor Code, a copy of the prevailing wage rates is on file with the District and available for inspection by any interested party at www.dir.ca.gov.
- e. The holidays upon which such rates shall be paid shall be all holidays recognized in the collective bargaining agreement applicable to the particular craft, classification, or type

of worker employed on the Work.

- f. The Contractor shall post a copy of the general prevailing rate of per diem wages at the jobsite pursuant to Section 1773.2 of the Labor Code.
- g. Pursuant to Section 1774 of the Labor Code, the Contractor and any of its Subcontractors shall not pay less than the specified prevailing rate of wages to all workers employed in the execution of the contract.
- h. As set forth with more specificity in Section 1773.1 of the Labor Code, "per diem" wages include employer payments for health and welfare, pension, vacation, travel, subsistence and, in certain instances, apprenticeship or other training programs, and shall be paid at the rate and in the amount spelled out in the pertinent prevailing wage determinations issued by the Director of Industrial Relations.
- i. The Contractor shall, as a penalty to the State or the District, forfeit not more than the maximum set forth in Section 1775 of the Labor Code for each calendar day, or portion thereof, for each worker paid less than the prevailing rates for the work or craft in which the worker is employed under the contract by the Contractor or by any Subcontractor under him. The difference between the prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which such worker was paid less than the stipulated prevailing wage rate shall be paid to such worker by the Contractor.
- j. The specified wage rates are minimum rates only and the District will not consider and shall not be liable for any claims for additional compensation made by the Contractor because of its payment of any wage rate in excess of the general prevailing rates. All disputes in regard to the payment of wages in excess of those specified herein shall be adjusted by the Contractor at its own expense.
- k. General prevailing wage determinations have expiration dates with either a single asterisk or a double asterisk. Pursuant to California Code of Regulations, Title 8, Section 16204, the single asterisk means that the general prevailing wage determination shall be in effect for the specified contract duration. The double asterisk means that the predetermined wage modification shall be paid after the expiration date. No adjustment in the Contract Sum will be made for the Contractor's payment of these predetermined wage modifications.

12. PAYROLL RECORDS & ELECTRONIC SUBMISSION

- a. The Contractor and each Subcontractor shall keep an accurate payroll record, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker or other employee employed in connection with the Work. The payroll records shall be certified and shall be available for inspection in accordance with the provisions of Section 1776 of the Labor Code. Certified payroll records shall be on the forms provided by the DIR or contain the same information required on the Department's form.

- b. The Contractor shall submit for each week in which any contract Work is performed a copy of all payroll records to the Engineer. The Contractor shall be responsible for submission of copies of payroll records of all Subcontractors.
- c. The Contractor or Subcontractor shall certify the payroll records as shown on the DIR form. In addition, the records shall be accompanied by a statement signed by the Contractor or Subcontractor certifying that the classifications truly reflect the Work performed and that the wage rates are not less than those required to be paid.
- d. For public works projects awarded on or after April 1, 2015, or that are still ongoing after April 1, 2016, no matter when awarded, each Contractor and Subcontractor shall furnish the certified payroll related records as more specifically described above and in Labor Code section 1776 directly to the Labor Commissioner (see LC § 1771.4). These records shall be provided to the Labor Commissioner at least monthly or more frequently if required by the terms of the Contract. For exception on projects covered by collective bargaining agreements like a PLA, please see Labor Code section 1771.4.
- e. In the event of noncompliance with the requirements of Section 1776 of the Labor Code, the Contractor shall have 10 days in which to comply subsequent to receipt of written notice specifying in what respects such Contractor must comply with said Section. Should noncompliance still be evident after such 10-day period, the Contractor shall, as a penalty to the State or the District, forfeit the amount set forth in Section 1776 of the Labor Code for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, such penalties shall be withheld from progress payments then due.
- f. The Contractor and every Subcontractor shall post at the workplace and comply with all required wage related workplace postings. Copies of the required postings may be downloaded or ordered electronically from the Department of Industrial Relations website at <http://www.dir.ca.gov/wpnodeb.html>.

13. HOURS OF LABOR

Pursuant to the provisions of Sections 1810, et seq. of the Labor Code and any amendments thereof:

- a. Eight hours of labor constitutes a legal day's Work under the contract.
- b. The time of service of any worker employed upon the work shall be limited and restricted to eight hours during any one calendar day, and forty hours during any one calendar week except as provided in Article 13.iv below.
- c. The Contractor shall, as a penalty to the State or the District, forfeit the amount set forth in Section 1813 of the Labor Code for each worker employed in the execution of the contract by the Contractor or by any Subcontractor for each calendar day during which such worker is required or permitted to work more than eight hours in any calendar day and forty hours in any one calendar week in violation of this Article and the provisions of Labor Code, Sections 1810, et seq.
- d. Work performed by employees of the Contractor in excess of eight hours per day, and forty hours during any one calendar week, shall be permitted upon compensation for all

hours worked in excess of eight hours per day at not less than one and one-half times the basic rate of pay.

- e. The Contractor and every Subcontractor shall keep an accurate record showing the name of and the actual hours worked each calendar day and each calendar week by each worker employed by him in connection with the Work; the record shall be kept open at all reasonable hours to the inspection of the District and to the Division of Labor Standards Enforcement of the State of California.

14. EMPLOYMENT OF APPRENTICES

- a. In the performance of the contract, the Contractor and any Subcontractor shall comply with the provisions concerning the employment of apprentices in Section 1777.5 of the Labor Code and any amendments thereof.
- b. In the event the Contractor or any Subcontractor willfully fails to comply with the aforesaid section, such Contractor or Subcontractor shall be subject to the penalties for noncompliance in Labor Code, Section 1777.7.

15. CHANGES

- a. Changes in the Work can only be made in writing signed by an authorized employee of the District. If the change causes an increase or decrease in the contract sum, or a change in the time for performance under the Contract, an adjustment may be made as determined by the Project Manager.
- b. The District reserves the right to make changes in the design of materials, equipment, or machinery, to make alterations or additions to or deviations or subtractions from the Contract and any specifications and drawings, to increase or decrease the required quantity of any item or portion of the Work or to omit any item or portion of the Work, as may be deemed by the Project Manager to be necessary or advisable and to order such extra work as may be determined by the Project Manager to be required for the proper execution and completion of the whole Work contemplated. Any such changes will be ordered in writing by the Project Manager. The determination of the Project Manager on all questions relating to changes, including extra work, shall be conclusive and binding.
- c. Prior to issuing an amendment or change to the Contract, the Project Manager may request that the Contractor submit a proposal covering the changes. Within 10 business days of receiving the request, the Contractor shall submit its proposal to the Project Manager of all costs associated with the proposed amendment or change and any request for an extension of Contract time. Contractor's proposal shall include detailed estimates with cost breakdowns, including labor, material, equipment, overhead, and profit. Labor shall be broken down into hours and rate per hour. If applicable, the proposal shall include a breakdown for off-site labor (including factory labor, engineering, etc.). The Contractor's proposal shall include an analysis of schedule impact when the Contractor is requesting an adjustment in contract time. The Contractor shall be responsible for any delay associated with its failure to submit its change proposal within the time specified. If the Project Manager decides not to issue an amendment or change after requesting a proposal from the Contractor, the Contractor will be notified in writing. The Contractor is not entitled to reimbursement for Change Order

preparation costs if the Contractor's proposal is not accepted by the Project Manager.

- d. If the Contractor agrees with the terms and conditions of the approved Change Order, the Contractor shall indicate its acceptance by signing the original copy and returning it to the Project Manager within 10 Work Days after receipt or with reasonable promptness and in such sequence as to not delay the Work or activities of the District or of separate contractors, whichever is sooner. If notice of any change is required to be given to a surety by the provisions of any bond, the Contractor shall provide notice and the amount of each applicable bond shall be adjusted separately. Payment in accordance with the terms and conditions set forth in the executed Change Order shall constitute full compensation for all Work included in the Change Order and the District will be released from any and all claims for direct, indirect, and impact expenses and additional time impact resulting from the Work. If the Contractor disagrees with the terms and conditions of the approved Change Order, the Contractor shall indicate specific areas of disagreement and return the approved Change Order to the Project Manager with a detailed written dispute. No payment will be made on the disputed work until the approved Change Order is returned to the Project Manager. However, whether or not the Contractor agrees with the terms and conditions of an approved Change Order, the Contractor shall immediately revise its sequence of operations as required to facilitate timely completion of the changed work and shall proceed with the revised work sequence.
- e. The Project Manager may, after having received a written cost quotation from the Contractor, order the Contractor, in writing, to proceed with the work prior to issuance of an approved Change Order through a change directive. The change directive will authorize the Contractor to proceed with the work subject to the cost quotation submitted by the Contractor. Within five days following receipt of the change directive, the Contractor shall submit a detailed change proposal documenting the amount of compensation. The Project Manager will review the change proposal and, at its option, will either issue an approved Change Order for the work or direct the Contractor to perform the work through Force Account. Until the method of compensation is determined and the approved Change Order is received, the Contractor shall keep full and complete time and material records of the cost of the ordered work and shall permit the Project Manager to have access to such records. An approved Change Order shall supersede any previously issued written change directive covering the same Work.

16. EFFECT OF EXTENSIONS OF TIME

The granting, or acceptance, of extensions of time to complete the Work or furnish the labor, supplies, materials or equipment, or any one of the aforementioned, will not operate as a release of Contractor or the surety on Contractor's faithful performance bond.

17. DELAYS

- a. The Contractor shall take reasonable precautions to foresee and prevent delays to the Work. When the Contractor foresees a delay event, and upon the occurrence of a delay event, the Contractor shall immediately notify the Project Manager of the probability or the actual occurrence of a delay, and its cause. With respect to all delays (compensable, excusable or inexcusable), the Contractor shall reschedule the Work and revise its operations, to the extent possible, to mitigate the effects of the delay. Within 15 days from the beginning of a delay the Contractor shall provide the Project Manager with a

detailed written description of the delay, its cause, its impact and the Contractor's mitigation plans. Failure to provide the notification required above waives the Contractor's right to any additional time or compensation resulting from the delay for whatever cause. The Project Manager will investigate the facts and ascertain the extent of the delay, and the Project Manager's findings thereon shall be final and conclusive, except in the case of gross error. An extension of time must be approved by the Project Manager to be effective, but an extension of time, whether with or without consent of the sureties, shall not release the sureties from their obligations, which shall remain in full force until the discharge of the contract.

- b. For inexcusable delays (delays caused by circumstances within the Contractor's control, the control of its subcontractors or supplies of any tier, or within the scope of the Contractor's contract responsibilities) the Contractor shall not be entitled to an extension of time or additional compensation for any loss, cost, damage, expense or liability resulting directly or indirectly from the inexcusable delay.
- c. For excusable delays (delays to completion of the Work within the time limits set forth in the Contract Documents directly caused by events beyond the control of both the Contractor and the District, which delay is not concurrent with an inexcusable delay and which could not have been avoided by the Contractor through reasonable mitigation measures).
- d. For compensable delays (delays to completion of the Work within the time limits set forth in the Contract Documents that could not be avoided by Contractor mitigation, caused directly and solely by the District or by causes within the exclusive control of the District, and which were not concurrent with any other type of delay) the Project Manager will grant the Contractor an extension of the time to perform under the Contract and compensation in an amount that represents the Contractor's actual direct costs incurred as a direct result of the compensable delay. The Contractor may recover its direct costs only and may not recover (and waives) all other types of indirect, consequential, special and incidental damages.
- e. For concurrent delays (two or more independent causes of delay directly preventing the Contractor from completing the Work within the time limits set forth in the Contract Documents where the delays occur at the same time during all or a portion of the delay period being considered, and where each of the delays would have caused delay to the Contractor even in the absence of any of the other delays, and none of the delays could have been avoided by Contractor mitigations) the following rules apply:
 - i. One or more of the concurrent delays are excusable or compensable, then the period of concurrent delay will be treated as an excusable delay; and
 - ii. All of the concurrent delays are inexcusable, then the period of concurrent delay will be inexcusable.

18. TERMINATION

- a. Termination by the District for Cause:

- i. District may terminate the Contractor's right to proceed under the Contract, in whole or in part, for cause at any time after the occurrence of any of the following events, each of which constitutes a default:
 - 1. The Contractor becomes insolvent or files for relief under the bankruptcy laws of the United States.
 - 2. The Contractor makes a general assignment for the benefit of its creditors or fails to pay its debts as the same become due.
 - 3. A receiver is appointed to take charge of the Contractor's property.
 - 4. The Contractor fails to supply skilled supervisory personnel, an adequate number of properly skilled workers, proper materials, or necessary equipment to prosecute the Work in accordance with the Contract Documents.
 - 5. The Contractor fails to make progress so as to endanger performance of the Work within the contractually required time.
 - 6. The Contractor disregards legal requirements of agencies having jurisdiction over the Work, the Contractor, or the District.
 - 7. The Contractor fails to provide the District with a written plan to cure a District identified default within five business days after the District's request for a plan to cure; the District does not accept the Contractor's plan for curing its default; or the Contractor does not fully carry out an accepted plan to cure.
 - 8. The Contractor abandons the Work. Abandonment is conclusively presumed when the District requests a written plan to cure a default and the Contractor does not submit the plan within five business days of the District's request.
 - 9. The Contractor materially fails to meet its obligations in accordance with the Contract Documents.
 - 10. The Contractor is in default of any other material obligation under the Contract Documents.
- ii. If any of the above events occur, the District may, in its discretion, require that the Contractor submit a written plan to cure its default, which plan must be provided to the District within 5 business days of the request and must include a realistic, executable plan for curing the noted defaults.

- iii. Upon any of the occurrences referred to in Article 18.a.i. above, the District may, at its election and by notice to the Contractor, terminate the Contract in whole or in part; accept the assignment of any or all of the subcontracts; and then complete the Work by any method the District may deem expedient. If requested by the District, the Contractor shall remove any part or all of the Contractor's materials, supplies, equipment, tools, and machinery from the site of the Work within seven days of such request; and, if the Contractor fails to do so, the District may remove or store, and after 90 days sell, any of the same at the Contractor's expense.
- iv. No termination or action taken by the District after termination shall prejudice any other rights or remedies of the District provided by law or by the Contract Documents.
- v. Conversion: If, after termination for other than convenience, it is determined that the Contractor was not in default or material breach, or that the default or material breach was excusable, the rights and obligations of the parties shall be the same as if the termination had been issued for convenience pursuant to Article 18.b. below.

b. Termination by the District for Convenience:

- i. The District may, at its option, and for its convenience, terminate the Contract at any time by giving written notice to the Contractor specifying the effective date of termination. Upon such termination, the Contractor agrees to comply with the notice and further agrees to waive any claims for damages, including loss of anticipated profits, on account of the termination; and, as the sole right and remedy of the Contractor, the District shall pay the Contractor as set forth below.
- ii. Upon receipt of a notice of termination for convenience, the Contractor shall, unless the notice directs otherwise, do the following:
 - 1. Immediately discontinue its performance of the Contract to the extent specified in the notice.
 - 2. Place no further orders or subcontracts for materials, equipment, services, or facilities, except as may be necessary for completion of a portion of the Work that is not discontinued or that is necessary for an orderly cessation of the Work.
 - 3. Promptly cancel, on the most favorable terms reasonably possible, all subcontracts to the extent they relate to the performance of the discontinued portion of the Work.
 - 4. Thereafter, do only such Work as may be necessary to preserve and protect Work already in progress and to protect materials,

plants, and equipment in transit to or on the site of performance.

- iii. Upon such termination for convenience, the District will pay to the Contractor the sum of the following:
 - 1. The amount of the contract sum allocable to the portion of the Work properly performed by the Contractor as of the effective date of termination, less sums previously paid to the Contractor.
 - 2. Previously unpaid costs of any items delivered to the project site that were already fabricated for subsequent incorporation into the Work.
 - 3. Any proven losses with respect to materials and equipment directly resulting from the termination.
 - 4. Reasonable demobilization costs.
- iv. The above reimbursement is the sole and exclusive remedy to which the Contractor is entitled in the event the contract is terminated for convenience; and the Contractor expressly waives any other claims, damages, demands, compensation or recovery related to this contract or project. The Contractor agrees to sign a general release incorporating this waiver.
- f. Effect of Termination: Upon termination, the obligations of the Contract shall continue as to portions of the Work already performed and, subject to the Contractor's obligations under Article 18.b.ii, as to bona fide obligations assumed by the Contractor prior to the date of termination.
- g. Force Majeure: If the contract is suspended or terminated by the District because Contractor's performance is prevented or delayed by an event including an irresistible, superhuman cause, or by the act of public enemies of the State of California or of the United States ("Force Majeure") , the Contractor will be paid for Work performed prior to the Force Majeure event at either (i) the unit prices named in the Contract; or (ii) in the event no unit prices are named, a sum equal to the percentage of the total contract amount that matches the percentage of the total contract Work performed prior to the Force Majeure event.

19. DAMAGES

All losses or damages to material or equipment to be furnished pursuant to the Contract Documents occurring prior to receipt and final acceptance of the Work shall be sustained by the Contractor. The Contractor shall sustain all losses arising from unforeseen obstructions or difficulties, either natural or artificial, encountered in the prosecution of the Work, or from any action of the elements prior to final acceptance of the work, or from an act or omission on the part of the Contractor not authorized by the Contract Documents.

20. ORDER OF PRECEDENCE

- a. In the case of conflicts, errors, or discrepancies in any of the Contract Documents, the order of precedence is as follows. Within the same order of precedence, specific requirements shall take precedence over general requirements.
 - i. Approved Change Orders.
 - ii. Addenda.
 - iii. RFQ or RFP.
 - iv. Referenced Standard Specifications and Drawings.
 - v. Contractor's Response Packet
- b. With reference to drawings:
 - i. Numerical dimensions govern over scaled dimensions.
 - ii. Detailed drawings govern over general drawings.
 - iii. Addenda/Change Order drawings govern over contract drawings.
 - iv. Contract drawings govern over standard drawings.
 - v. Notes apply only to the drawing where the notes appear, unless classified as "typical" or intended to apply elsewhere in which case they apply to all drawings where the conditions or circumstance noted occurs.
 - vi. Typical details apply to all drawings unless a specific different detail is shown

21. INDEMNIFICATION/RESPONSIBILITY

- a. Contractor shall indemnify, keep and save harmless the District and each of its directors, officers, agents and employees against any and all suits, claims or actions arising out of any of the following:
 - i. Any injury to persons or property that may occur, or that may be alleged to have occurred, arising from the performance or implementation of this Contract; or
 - ii. Any allegation that materials or services developed, provided or used for this Contract infringe or violate any copyright, trademark, patent, trade secret, or any other intellectual-property or proprietary right of any third party.
- b. Contractor further agrees to defend any and all such actions, suits or claims and pay all charges of attorneys and all other costs and expenses of defenses as they are incurred. If any judgment is rendered, or settlement reached, against the District or any of the other agencies or individuals enumerated above in any such action, Contractor shall, at its expense, satisfy and discharge the same.
- c. This indemnification shall survive termination or expiration of the Contract.

22. PROHIBITION OF ASSIGNMENT

The Contractor shall not assign, transfer, or otherwise dispose of any of its rights, duties or obligations under this Contract.

23. NEWS RELEASES

The Contractor, its employees, subcontractors, and agents shall not refer to the District, or use any logos, images, or photographs of the District for any commercial purpose, including, but not limited to, advertising, promotion, or public relations, without the District's prior written consent. Such written consent shall not be required for the inclusion of the District's name on a customer list.

24. TRANSFER OF INTEREST

Contractor shall not assign, transfer or otherwise substitute its interest in the Contract or any of the contract obligations without prior written consent from the District.

25. SEVERABILITY

Should any part of the Contract be declared by a final decision by a court or tribunal of competent jurisdiction to be unconstitutional, invalid or beyond the authority of either party to enter into or carry out, such decision shall not affect the validity of the remainder of the Contract, which shall continue in full force and effect, provided that the remainder of the Contract can be interpreted to give effect to the intentions of the parties.

26. COVENANT AGAINST GRATUITIES

The Contractor warrants that no gratuities (in the form of entertainment, gifts, or otherwise) were offered or given by the Contractor, or any agent or representative of the Contractor, to any officer or employee of the District with a view toward securing the Contract or securing favorable treatment with respect to any determinations concerning the performance of the Contract. For breach or violation of this warranty, the District shall have the right to terminate the Contract, either in whole or in part, and any loss or damage sustained by the District in procuring on the open market any items which Contractor agreed to supply shall be borne and paid for by the Contractor. The rights and remedies of the District provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or in equity.

27. RIGHTS AND REMEDIES OF THE DISTRICT

The rights and remedies of the District provided herein shall not be exclusive and are in addition to any other rights and remedies provided by law or under the Contract.

28. WAIVER OF RIGHTS

Any action or inaction by the District or the failure of the District on any occasion, to enforce any right or provision of the Contract, shall not be construed to be a waiver by the District of its rights and shall not prevent the District from enforcing such provision or right on any future occasion. Rights and remedies are cumulative and are in addition to any other rights or remedies that the District may have at law or in equity.

29. CONFIDENTIALITY

Contractor agrees to maintain in confidence and not disclose to any person or entity, without the District's prior written consent, any trade secret or confidential information, knowledge or data relating to the products, process, or operation of the District. Contractor further agrees to maintain in confidence and not to disclose to any person or entity, any data, information, technology, or material developed or obtained by Contractor during the term of the Contract. The covenants contained in this paragraph shall survive the termination of this Contract for whatever cause.

EXHIBIT D

EBMUD LABORATORY REPORTS

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Page 1 of 1

Prelog or Login No.: L196339 Project Title: SD1 AERATED GRIT & SCUM: ANNUAL MONITORING Account or Project: B913-9501-2
Client PM: DAVE FREITAS Tel No.: 287-1502 Lab PM: SUSAN B. BERG
Sampled by: DGarcia Rcvd: 09-FEB-15 09:37 Sample Date: 09-FEB-15

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Tests Required	Container ID	Chemical	Date	Preservative pH	DueDate	Initials
L196339-1	GRAB	09:27	WWTP AERATED GRIT	HOPPER	MiscSolid	9071 - SGT	1276109 JARS				02-MAR-15	
					MiscSolid	8260;8270	1276110 JARXS					
					MiscSolid	TS	1276111 CUP					
					MiscSolid	*TCP EPA 6010;AG EPA 7761;AS EPA 6010;BA EPA 6010;CU	1276112 QTORG					
					MiscSolid	BE EPA 6010;CD EPA 6010;CO EPA 6010;CR EPA 6010;PB						
					MiscSolid	EPA 6010;HG EPA 7471;MO EPA 6010;NI EPA 6010;V EPA						
					MiscSolid	EPA 6010;SB EPA 6010;SE EPA 6010;TL EPA 6010;V EPA						
					MiscSolid	6010;ZN EPA 6010						
					MiscSolid	+REPORT;+SAMP KIT;+TRANSMITTAL						

ClientID:

Sample Comments: 9071 total and 9071 SGT Pricing: STD

Total containers received: 4

Sample Type Descriptions:
GRAB - Instantaneous Grab

Container Type Descriptions:
CUP - Plastic, snap on lid, 250 mL
JARXS - Glass, jar, PTFE lined cap, 125 mL
JARS - Glass, jar, PTFE line cap, 250 mL
QTORG - Glass, WM, PTFE line cap, organic clean, 850 mL

Signature	Print Name	Time	Date
Relinquished by			
Received by			
Relinquished by			
Received by			
Relinquished by			
Received by	Andrew J Oko	09:37	09-FEB-15

Samples will be retained beyond the approval process only if requested by the client.

L196339

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Expect date: 09-Feb-2015
Page 1 of 1

Prelog or Login No.: P204139
Project Title: SDI AERATED GRIT & SCUM: ANNUAL MONITORING
Account or Project: B913-9501-2
Client PM: DAVE FREITAS
Tel No.: 287-1502
Lab PM: SUSAN B. BERG
Sampled by: [Signature]
Rcvd: [Signature]
Sample Date: 2/9/15

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Tests Required	Container ID	Chemical	Date	DueDate
P204139-1	GRAB	0947	WWTP AERATED GRIT	HOPPER	MiscSolid	9071 - SGT	1276109 JARS			
					MiscSolid	8260;8270	1276110 JARXS			
					MiscSolid	TS	1276111 CUP			
					MiscSolid	*ICP EPA 6010;AG EPA 7761;AS EPA 6010;BA EPA 6010;CU	1276112 QTORG			
					MiscSolid	BE EPA 6010;CD EPA 6010;CO EPA 6010;CR EPA 6010;NI				
					MiscSolid	EPA 6010;HG EPA 7471;MO EPA 6010;NI EPA 6010;PB				
					MiscSolid	EPA 6010;SB EPA 6010;SE EPA 6010;TL EPA 6010;V EPA				
					MiscSolid	6010;ZN EPA 6010				
					MiscSolid	+REPORT;+SAMP KIT;+TRANSMITTAL				

ClientID:
Sample Comments: 9071 total and 9071 SGT Pricing: STD
Total containers received: 4

Signature	Print Name	Time	Date	Sample Type Descriptions:
[Signature]	Damon Garcia	0937	2/9/15	GRAB - Instantaneous Grab
[Signature]				Container Type Descriptions: CUP - Plastic, snap on lid, 250 mL JARXS - Glass, jar, PTFE lined cap, 125 mL JARS - Glass, jar, PTFE line cap, 250 mL QTORG - Glass, WM, PTFE line cap, organic clean, 850 mL
[Signature]				
[Signature]				
[Signature]				
[Signature]	Andrew Oke	0937	2/9/15	

Samples will be retained beyond the approval process only if requested by the client.

#2
B.4
QTORE

EBMUD LABORATORY COOLER RECEIPT FORM

Login Number: L196339 Received: 09-Feb-2015 09:37
 Converted from P204139

Cooler ID: 244778

SHIPPING INFORMATION

1. Did cooler come with a shipping slip?
Tracking number:

PACKAGING AND PRESERVATION

1. Ice present?
2. Type of cooler packing:
3. Temperature of a representative sample. Measured temp: 18.4
Corrected temperature: 17.7
4. Container type used to measure temperature: QTORG
5. SWEET cont. > 10 C received >= 2 hrs. after collection: No

LOGIN PHASE

1. Containers intact?
2. Preservation correct?
3. Correct sample containers?
4. Sufficient sample volume?
5. Labels legible?
6. Label info agrees with COC?
7. Label information complete?
8. Bubbles present in VOA-type containers?
9. Container IDs w/ bubbles:
10. Senior Chemist notified of anomalies?
11. Senior Chemist called who called?

CHAIN OF CUSTODY DOCUMENTATION

1. COC signed by Lab?
2. Project identified on COC?
3. COC info complete?

Comments:

244778 Intent to cool.

Site / locator: WWTP AERATED GRIT/HOPPER

No					
No					
Yes					
Yes					
Yes					
Yes					
Yes					
Yes					
No					
No					
Yes					
Yes					
Yes					
Yes					
Yes					
No					
No					
Yes					
Yes					
Yes					

Analytical Report Prepared for DAVE FREITAS


Report generated on: Mar 04, 2015 04:27 pm
Login No.: L196339

Reported by:



SUSAN B. BERG
Laboratory Program Manager

Approved by:



NIRMELA ARSEM
Laboratory Services Division Manager

LSR B913-9501-2

Project Title: SD1 AERATED GRIT & SCUM: ANNUAL MONITORING

Login Performance Summary

1 - Sample received by the lab on: Feb 09 2015, 09:37 am
0 - Lost Analyses
0 - Hold Time Exceedences
Turn-around-time not met

Samples included in this report:

Sample	Type Collected	Site	Locator	ClientID
L196339-1	GRAB 09-Feb-2015 09:27	WWTP AERATED GRIT	HOPPER	-

Legend to the laboratory qualifiers used in this report:

K - Estimated Maximum Possible Concentration (EMPC). Ion ratio does not meet method criteria.
N - Spike recovery outside of control limits
U - Analyte not detected
Qualifiers for subcontract work - See textvalue for description



EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
PO Box 24055, MS 59, Oakland, CA 94623
Phone (510)287-1432 Fax (510)465-5462
Analytical Results Report

LSR B913-9501-2 SD1 AERATED GRIT & SCUM: ANNUAL MONITORING
Site: WWTP AERATED GRIT SD-1 Wastewater Treatment Plant : Aerated Grit
Locator: HOPPER Grit Dewatering Building Hopper Settled grit from classifier sampled from conveyor or directly from grit bin
Lab ID: L196339-1 (P204139-1)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Feb 09 2015, 09:27am Sample collector: DGarcia
Date Received: Feb 09 2015, 09:37am Sample receiver: AOKO
Sample Comments: 9071 total and 9071 SGT

Method Reference	Qualifier	Result	Units	Dilution	MDL	Matrix	Tag
Parameter						RL/ML	
Method: EPA 9071B - Hexane Extractable Material , Gravimetric.						MiscSolid	1
Subcontract data from Alpha Analytical Lab							
SUBCONTRACT LAB DATA							
OIL AND GREASE (HYDROCARBON)		1,100	mg/kg		90	250	
Run ID: R258685 / Work Group No.: WG197821							
Prep Date1: 19-FEB-15 Analyzed 20-Feb-15 10:06							
Method: EPA 9071B - Hexane Extractable Material , Gravimetric.						MiscSolid	
Subcontract data from Alpha Analytical Lab							
SUBCONTRACT LAB DATA							
OIL AND GREASE		12,000	mg/kg		170	250	
Run ID: R258685 / Work Group No.: WG197821							
Prep Date1: 12-FEB-15 Analyzed 19-Feb-15 15:27							
Method: PER SUBCONTRACT LABORATORY REPORT - Subcontract data transmittal						MiscSolid	
Subcontract data							
Comment: Original report transmitted to client. Copy of report archived with data packet.							
SUBCONTRACT LAB DATA							
DATA TRANSMITTAL							
Run ID: R258626 / Work Group No.: WG197769							
Prep Date1: 12-FEB-15 Analyzed 19-Feb-15 15:27							
Method: EPA 8260B - Volatile Organics, GC/MS						MiscSolid	
TARGET ANALYTES							
ACETONE		0.26	mg/kg	2	0.15		
ACROLEIN	U	0.17	mg/kg	2	0.17		
ACRYLONITRILE	U	0.22	mg/kg	2	0.22		
ALLYL CHLORIDE	U	0.11	mg/kg	2	0.11		
TERT-AMYL METHYL ETHER	U	0.12	mg/kg	2	0.12		
BENZENE	U	0.14	mg/kg	2	0.14		
BIS(2-CHLOROISOPROPYL)ETHER	U	0.12	mg/kg	2	0.12		
BROMOBENZENE	U	0.19	mg/kg	2	0.19		
BROMOCHLOROMETHANE	U	0.14	mg/kg	2	0.14		
BROMODICHLOROMETHANE	U	0.14	mg/kg	2	0.14		
BROMOFORM	U	0.098	mg/kg	2	0.098		
BROMOMETHANE	U	0.32	mg/kg	2	0.32		
1,3-BUTADIENE	U	0.086	mg/kg	2	0.086		
TERT-BUTYL ALCOHOL	U	0.70	mg/kg	2	0.7		
N-BUTYLBENZENE	U	0.14	mg/kg	2	0.14		
SEC-BUTYLBENZENE	U	0.14	mg/kg	2	0.14		
TERT-BUTYLBENZENE	U	0.17	mg/kg	2	0.17		
CARBON DISULFIDE	U	0.11	mg/kg	2	0.11		
CARBON TETRACHLORIDE	U	0.12	mg/kg	2	0.12		
CHLOROACETONITRILE	U	0.50	mg/kg	2	0.5		
CHLOROBENZENE	U	0.13	mg/kg	2	0.13		
1-CHLOROBUTANE	U	0.13	mg/kg	2	0.13		
CHLOROETHANE	U	0.088	mg/kg	2	0.088		
2-CHLOROETHYLVINYL ETHER	U	0.14	mg/kg	2	0.14		
CHLOROFORM	U	0.15	mg/kg	2	0.15		
CHLOROMETHANE	U	0.14	mg/kg	2	0.14		
O-CHLOROTOLUENE	U	0.14	mg/kg	2	0.14		
P-CHLOROTOLUENE	U	0.14	mg/kg	2	0.14		
DIBROMOCHLOROMETHANE	U	0.098	mg/kg	2	0.098		

RL is either the client requested or regulatory mandated Reporting Limit. ML is the regulatory mandated Minimum Level



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Analytical Results Report

LSR B913-9501-2 SD1 AERATED GRIT & SCUM: ANNUAL MONITORING
Site: WWTP AERATED GRIT SD-1 Wastewater Treatment Plant : Aerated Grit
Locator: HOPPER Grit Dewatering Building Hopper Settled grit from classifier sampled from conveyor or directly from grit bin
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Date Collected: Feb 09 2015, 09:27am Sample collector: DGarcia
Date Received: Feb 09 2015, 09:37am Sample receiver: AOKO
Sample Comments: 9071 total and 9071 SGT

Method Reference						Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
DIBROMOCHLOROPROPANE	U	0.11	mg/kg	2	0.11		
DIBROMOMETHANE	U	0.17	mg/kg	2	0.17		
1,2-DICHLOROBENZENE	U	0.13	mg/kg	2	0.13		
1,3-DICHLOROBENZENE	U	0.15	mg/kg	2	0.15		
1,4-DICHLOROBENZENE	U	0.15	mg/kg	2	0.15		
TRANS-1,4-DICHLORO-2-BUTENE	U	0.19	mg/kg	2	0.19		
DICHLORODIFLUOROMETHANE	U	0.074	mg/kg	2	0.074		
1,1-DICHLOROETHANE	U	0.16	mg/kg	2	0.16		
1,2-DICHLOROETHANE	U	0.14	mg/kg	2	0.14		
1,1-DICHLOROETHENE	U	0.13	mg/kg	2	0.13		
CIS-1,2-DICHLOROETHENE	U	0.16	mg/kg	2	0.16		
TRANS-1,2-DICHLOROETHENE	U	0.16	mg/kg	2	0.16		
1,2-DICHLOROPROPANE	U	0.11	mg/kg	2	0.11		
1,3-DICHLOROPROPANE	U	0.10	mg/kg	2	0.1		
SEC-DICHLOROPROPANE	U	0.13	mg/kg	2	0.13		
1,1-DICHLORO-2-PROPANONE	U	0.13	mg/kg	2	0.13		
1,1-DICHLOROPROPENE	U	0.13	mg/kg	2	0.13		
CIS-1,3-DICHLOROPROPENE	U	0.11	mg/kg	2	0.11		
TRANS-1,3-DICHLOROPROPENE	U	0.10	mg/kg	2	0.1		
DIISOPROPYL ETHER	U	0.13	mg/kg	2	0.13		
ETHYL ACETATE	U	0.19	mg/kg	2	0.19		
ETHYL BENZENE	U	0.12	mg/kg	2	0.12		
ETHYL-T-BUTYL ETHER	U	0.17	mg/kg	2	0.17		
ETHYLENE DIBROMIDE	U	0.12	mg/kg	2	0.12		
ETHYL ETHER	U	0.13	mg/kg	2	0.13		
ETHYLMETHACRYLATE	U	0.15	mg/kg	2	0.15		
FLUOROTRICHLOROMETHANE	U	0.13	mg/kg	2	0.13		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	U	0.16	mg/kg	2	0.16		
HEXACHLOROBUTADIENE	U	0.17	mg/kg	2	0.17		
HEXACHLOROETHANE	U	0.16	mg/kg	2	0.16		
2-HEXANONE	U	0.13	mg/kg	2	0.13		
IODOMETHANE	U	0.30	mg/kg	2	0.3		
ISOPROPYLBENZENE	U	0.14	mg/kg	2	0.14		
P-ISOPROPYLTOLUENE	U	0.14	mg/kg	2	0.14		
METHYLACRYLATE	U	0.20	mg/kg	2	0.2		
METHYLACRYLONITRILE	U	0.17	mg/kg	2	0.17		
METHYL-T-BUTYL ETHER	U	0.28	mg/kg	2	0.28		
2-BUTANONE	U	0.16	mg/kg	2	0.16		
METHYLENE CHLORIDE	U	0.13	mg/kg	2	0.13		
4-METHYL-2-PENTANONE	U	0.12	mg/kg	2	0.12		
METHYLMETHACRYLATE	U	0.17	mg/kg	2	0.17		
NAPHTHALENE	U	0.17	mg/kg	2	0.17		
NITROBENZENE	U	0.16	mg/kg	2	0.16		
2-NITROPROPANE	U	0.13	mg/kg	2	0.13		
PENTACHLOROETHANE	U	0.40	mg/kg	2	0.4		
N-PROPYLBENZENE	U	0.15	mg/kg	2	0.15		
STYRENE	U	0.15	mg/kg	2	0.15		
1,1,1,2-TETRACHLOROETHANE	U	0.15	mg/kg	2	0.15		
1,1,2,2-TETRACHLOROETHANE	U	0.15	mg/kg	2	0.15		
TETRACHLOROETHENE	U	0.12	mg/kg	2	0.12		
TETRAHYDROFURAN	U	0.13	mg/kg	2	0.13		
TOLUENE	U	0.16	mg/kg	2	0.16		
1,2,3-TRICHLOROBENZENE	U	0.15	mg/kg	2	0.15		
1,2,4-TRICHLOROBENZENE	U	0.18	mg/kg	2	0.18		

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EAST BAY MUNICIPAL UTILITY DISTRICT
Laboratory Services Division
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Analytical Results Report

LSR B913-9501-2 SD1 AERATED GRIT & SCUM: ANNUAL MONITORING
Site: WWTP AERATED GRIT SD-1 Wastewater Treatment Plant : Aerated Grit
Locator: HOPPER Grit Dewatering Building Hopper Settled grit from classifier sampled from conveyor or directly from grit bin
Lab ID: L196339-1 (P204139-1)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Feb 09 2015, 09:27am Sample collector: DGarcia
Date Received: Feb 09 2015, 09:37am Sample receiver: AOKO
Sample Comments: 9071 total and 9071 SGT

Method Reference						Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
1,1,1-TRICHLOROETHANE	U	0.13	mg/kg	2	0.13		
1,1,2-TRICHLOROETHANE	U	0.12	mg/kg	2	0.12		
TRICHLOROETHENE	U	0.16	mg/kg	2	0.16		
1,2,3-TRICHLOROPROPANE	U	0.17	mg/kg	2	0.17		
1,2,4-TRIMETHYLBENZENE	U	0.17	mg/kg	2	0.17		
1,3,5-TRIMETHYLBENZENE	U	0.15	mg/kg	2	0.15		
VINYL ACETATE	U	0.14	mg/kg	2	0.14		
VINYL CHLORIDE	U	0.086	mg/kg	2	0.086		
O-XYLENE	U	0.15	mg/kg	2	0.15		
M+P XYLENES	U	0.30	mg/kg	2	0.3		
INTERNAL STANDARD							
FLUOROBENZENE		101	% recovery	1			
D5-CHLOROBENZENE		106	% recovery	1			
D4-1,4-DICHLOROBENZENE		101	% recovery	1			
SURROGATE							
DIBROMOFLUOROMETHANE		95.2	% recovery	1			
D4-DICHLOROETHANE		105	% recovery	1			
D8-TOLUENE		103	% recovery	1			
4-BROMOFLUOROBENZENE		92.8	% recovery	1			

Run ID: R258338 / Work Group No.: WG197426

Prep Date1: 10-FEB-15 Prep Date2: 10-FEB-15 Analyzed 10-Feb-15 18:45

Method: EPA 8270C - Semivolatile Organics, GC/MS						MiscSolid
TARGET ANALYTES						
ACENAPHTHENE	U	0.054	mg/kg	2	0.054	
ACENAPHTHYLENE	U	0.096	mg/kg	2	0.096	
ANILINE	U	0.11	mg/kg	2	0.11	
ANTHRACENE	U	0.15	mg/kg	2	0.15	
AZOBENZENE	U	0.16	mg/kg	2	0.16	
BENZIDINE	U	2.0	mg/kg	2	2	
BENZO(A)ANTHRACENE		0.19	mg/kg	2	0.16	
BENZO(B)FLUORANTHENE		0.18	mg/kg	2	0.1	
BENZO(K)FLUORANTHENE		0.15	mg/kg	2	0.084	
BENZO(GHI)PERYLENE		0.54	mg/kg	2	0.24	
BENZO(A)PYRENE		0.16	mg/kg	2	0.13	
BENZOIC ACID	U	2.0	mg/kg	2	2	
BENZYL ALCOHOL	U	0.17	mg/kg	2	0.17	
BUTYLBENZYL PHTHALATE		0.21	mg/kg	2	0.16	
BIS(2-CHLOROETHOXY)METHANE	U	0.11	mg/kg	2	0.11	
BIS(2-CHLOROETHYL)ETHER	U	0.068	mg/kg	2	0.068	
BIS(2-CHLOROISOPROPYL)ETHER	U	0.072	mg/kg	2	0.072	
BIS(2-ETHYLHEXYL)PHTHALATE		2.1	mg/kg	2	0.15	
4-BROMOPHENYL PHENYL ETHER	U	0.36	mg/kg	2	0.36	
4-CHLOROANILINE	U	0.11	mg/kg	2	0.11	
P-CHLORO-M-CRESOL	U	0.11	mg/kg	2	0.11	
2-CHLORONAPHTHALENE	U	0.078	mg/kg	2	0.078	
2-CHLOROPHENOL	U	0.058	mg/kg	2	0.058	
4-CHLOROPHENYL PHENYL ETHER	U	0.10	mg/kg	2	0.1	
CHRYSENE		0.19	mg/kg	2	0.12	
DIBENZO(A,H)ANTHRACENE	U	0.13	mg/kg	2	0.13	
DIBENZOFURAN	U	0.090	mg/kg	2	0.09	
DI-N-BUTYL PHTHALATE	U	0.32	mg/kg	2	0.32	
1,2-DICHLOROBENZENE	U	0.042	mg/kg	2	0.042	
1,3-DICHLOROBENZENE	U	0.042	mg/kg	2	0.042	

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Analytical Results Report

LSR B913-9501-2 SD1 AERATED GRIT & SCUM: ANNUAL MONITORING
Site: WWTP AERATED GRIT SD-1 Wastewater Treatment Plant : Aerated Grit
Locator: HOPPER Grit Dewatering Building Hopper Settled grit from classifier sampled from conveyor or directly from grit bin
Lab ID: L196339-1 (P204139-1)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Feb 09 2015, 09:27am Sample collector: DGarcia
Date Received: Feb 09 2015, 09:37am Sample receiver: AOKO
Sample Comments: 9071 total and 9071 SGT

Method Reference						Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
1,4-DICHLOROBENZENE		0.24	mg/kg	2	0.044		
3,3'-DICHLOROBENZIDINE	U	0.16	mg/kg	2	0.16		
2,4-DICHLOROPHENOL	U	0.090	mg/kg	2	0.09		
DIETHYL PHTHALATE	U	0.20	mg/kg	2	0.2		
2,4-DIMETHYLPHENOL	U	0.11	mg/kg	2	0.11		
DIMETHYL PHTHALATE	U	0.11	mg/kg	2	0.11		
4,6-DINITRO-O-CRESOL	U	2.0	mg/kg	2	2		
2,4-DINITROPHENOL	U	2.0	mg/kg	2	2		
2,4-DINITROTOLUENE	U	0.15	mg/kg	2	0.15		
2,6-DINITROTOLUENE	U	0.14	mg/kg	2	0.14		
DI-N-OCTYL PHTHALATE		0.49	mg/kg	2	0.11		
FLUORANTHENE	U	0.40	mg/kg	2	0.4		
FLUORENE	U	0.078	mg/kg	2	0.078		
HEXACHLOROBENZENE	U	0.18	mg/kg	2	0.18		
HEXACHLOROBUTADIENE	U	0.058	mg/kg	2	0.058		
HEXACHLOROCYCLOPENTADIENE	U	2.0	mg/kg	2	2		
HEXACHLOROETHANE	U	0.058	mg/kg	2	0.058		
INDENO(1,2,3-CD)PYRENE	U	0.14	mg/kg	2	0.14		
ISOPHORONE	U	0.11	mg/kg	2	0.11		
2-METHYLNAPHTHALENE	U	0.13	mg/kg	2	0.13		
2-CRESOL	U	0.11	mg/kg	2	0.11		
3-,4-METHYLPHENOL		8.7	mg/kg	2	0.092		
NAPHTHALENE	U	0.042	mg/kg	2	0.042		
2-NITROANILINE	U	0.14	mg/kg	2	0.14		
3-NITROANILINE	U	0.12	mg/kg	2	0.12		
4-NITROANILINE	U	0.22	mg/kg	2	0.22		
NITROBENZENE	U	0.13	mg/kg	2	0.13		
2-NITROPHENOL	U	0.052	mg/kg	2	0.052		
4-NITROPHENOL	U	2.0	mg/kg	2	2		
N-NITROSODIMETHYLAMINE	U	0.084	mg/kg	2	0.084		
N-NITROSODIPHENYLAMINE	U	0.58	mg/kg	2	0.58		
N-NITROSODI-N-PROPYLAMINE	U	0.084	mg/kg	2	0.084		
PENTACHLOROPHENOL	U	2.0	mg/kg	2	2		
PHENANTHRENE		0.21	mg/kg	2	0.12		
PHENOL	U	0.090	mg/kg	2	0.09		
PYRENE	K	0.38	mg/kg	2	0.3		
PYRIDINE	U	2.0	mg/kg	2	2		
1,2,4-TRICHLOROBENZENE	U	0.040	mg/kg	2	0.04		
2,4,5-TRICHLOROPHENOL	U	0.16	mg/kg	2	0.16		
2,4,6-TRICHLOROPHENOL	U	2.0	mg/kg	2	2		
INTERNAL STANDARD							
D4-1,4-DICHLOROBENZENE		110	% recovery	1	1		
D8-NAPHTHALENE		110	% recovery	1	1		
D10-ACENAPHTHENE		100	% recovery	1	1		
D10-PHENANTHRENE		101	% recovery	1	1		
D12-CHRYSENE		60.4	% recovery	1	1		
D12-PERYLENE	N	28.4	% recovery	1	1		
SURROGATE							
2-FLUOROPHENOL		73	% recovery	1			
D5-PHENOL		73	% recovery	1			
D5-NITROBENZENE		68	% recovery	1			
2-FLUOROBIPHENYL		65	% recovery	1			
2,4,6-TRIBROMOPHENOL		76	% recovery	1			
D14-P-TERPHENYL		100	% recovery	1			

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Analytical Results Report

LSR B913-9501-2 SD1 AERATED GRIT & SCUM: ANNUAL MONITORING
Site: WWTP AERATED GRIT SD-1 Wastewater Treatment Plant : Aerated Grit
Locator: HOPPER Grit Dewatering Building Hopper Settled grit from classifier sampled from conveyor or directly from grit bin
Lab ID: L196339-1 (P204139-1)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Feb 09 2015, 09:27am Sample collector: DGarcia
Date Received: Feb 09 2015, 09:37am Sample receiver: AOKO
Sample Comments: 9071 total and 9071 SGT

Method Reference	Qualifier	Result	Units	Dilution	MDL	Matrix	Tag
Parameter						RL/ML	
Run ID: R258683 / Work Group No.: WG197694							
Prep Date1: 10-FEB-15 Prep Date2: 23-FEB-15 Analyzed 24-Feb-15 18:51							

Method: SM2540B - 1997, Dried at 103-105C MiscSolid
TARGET ANALYTES
TOTAL SOLIDS 66 % 1 0.05
Run ID: R258183 / Work Group No.: WG197373
Prep Date1: 09-FEB-15 Analyzed 09-Feb-15 10:35

Method: EPA 6010B - ICP Scan						MiscSolid
TARGET ANALYTES						
ARSENIC		2.75	mg/kg	.0868	2.17	
BARIUM		86.2	mg/kg	.0868	0.174	
BERYLLIUM		0.134	mg/kg	.0868	0.0347	
CADMIUM		0.484	mg/kg	.0868	0.174	
COBALT		4.56	mg/kg	.0868	0.174	
CHROMIUM		34.2	mg/kg	.0868	0.174	
COPPER		156	mg/kg	.0868	0.434	
MOLYBDENUM		2.03	mg/kg	.0868	0.347	
NICKEL		37.4	mg/kg	.0868	0.26	
LEAD		125	mg/kg	.0868	0.521	
ANTIMONY	U	1.65	mg/kg	.0868	1.65	
SELENIUM	U	1.48	mg/kg	.0868	1.48	
THALLIUM	U	1.13	mg/kg	.0868	1.13	
VANADIUM		20.1	mg/kg	.0868	0.26	
ZINC		215	mg/kg	.0868	0.608	
Run ID: R258291 / Work Group No.: WG197428						
Prep Date1: 11-FEB-15 Analyzed 11-Feb-15 10:08						

Method: EPA 7471A - Cold Vapor AA						MiscSolid
TARGET ANALYTES						
MERCURY		0.38	mg/kg	1	0.03	
Run ID: R258591 / Work Group No.: WG197678						
Prep Date1: 24-FEB-15 Analyzed 24-Feb-15 14:32						

Method: EPA 7761 - Graphite Furnace AA						MiscSolid
TARGET ANALYTES						
SILVER		0.83	mg/kg	4	0.12	
Run ID: R258385 / Work Group No.: WG197514						
Prep Date1: 09-FEB-15 Prep Date2: 17-FEB-15 Analyzed 17-Feb-15 08:30						

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East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Prelog or Login No.: L196340 Project Title: SD1 AERATED GRIT & SCUM: ANNUAL MONITORING Account or Project: B913-9501-2 Client PM: DAVE FREITAS Tel No.: 287-1502 Lab PM: SUSAN B. BERG Sampled by: lduan Rcvd: 09-FEB-15 10:14 Sample Date: 09-FEB-15

Lab No.	Sample Type	Time	Site	Locator	Sample Matrix	Tests Required	Container ID	Chemical	Date	DueDate
L196340-1	GRAB	10:00	WWTP SCUM	CONCENTRATOR	MiscSolid	9071 - SGT	1276113 JARXS			02-MAR-15
					MiscSolid	8260;8270	1276114 JARXS			
					MiscSolid	TS	1276115 CUP			
					MiscSolid	*ICP EPA 6010;AG EPA 7761;AS EPA 6010;BA EPA 6010;	1276116 QTOORG			
					MiscSolid	BE EPA 6010;CD EPA 6010;CO EPA 6010;CR EPA 6010;CU				
					MiscSolid	EPA 6010;HG EPA 7471;MO EPA 6010;NI EPA 6010;PB				
					MiscSolid	EPA 6010;SB EPA 6010;SE EPA 6010;TL EPA 6010;V EPA				
					MiscSolid	6010;ZN EPA 6010				
					MiscSolid	+REPORT;+SAMP KIT;+TRANSMITTAL				

ClientID:

Sample Comments: 9071 total and 9071 SGT Pricing: STD

Total containers received: 4

Signature	Print Name	Time	Date	Sample Type Descriptions:
Relinquished by				GRAB - Instantaneous Grab
Received by				Container Type Descriptions: CUP - Plastic, snap on lid, 250 mL JARXS - Glass, jar, PTFE lined cap, 125 mL JARS - Glass, jar, PTFE line cap, 250 mL QTOORG - Glass, WM, PTFE line cap, organic clean, 850 mL
Relinquished by				
Received by				
Relinquished by				
Received by	Andrew J Oko	10:14	09-FEB-15	

Samples will be retained beyond the approval process only if requested by the client.

1196340

East Bay Municipal Utility District
Laboratory Services Chain of Custody Record

Expect date: 09-Feb-2015
Page 1 of 1

Prelog or Login No.: P204140	Project Title SD1 AERATED GRIT & SCUM: ANNUAL MONITORING	Client PM: DAVE FREITAS Tel No.: 287-1502	Sampled by: 16513	Container ID	Chemical	Date	DueDate
	Account or Project: B913-9501-2	Lab PM: SUSAN B. BERG	Rcvd:	Barcode	Preservative pH		Initials
Lab No.	Sample Type Time Site	Sample Matrix	Tests Required	1276113 JARS			
P204140-1	GRAB 1000 WWTP SCUM	CONCENTRATOR	9071 - SGT	1276114 JARXS			
			8260;8270	1276115 CUP			
			TS	1276116 QTORG			
			*ICP EPA 6010;AG EPA 7761;AS EPA 6010;BA EPA 6010;CU				
			BE EPA 6010;CD EPA 6010;CO EPA 6010;CR EPA 6010;PB				
			EPA 6010;HG EPA 7471;MO EPA 6010;NI EPA 6010;V EPA				
			EPA 6010;SB EPA 6010;SE EPA 6010;TL EPA 6010;V EPA				
			6010;ZN EPA 6010				
			+REPORT,+SAMP KIT,+TRANSMITTAL				

ClientID:

Sample Comments: 9071 total and 9071 SGT Pricing: STD

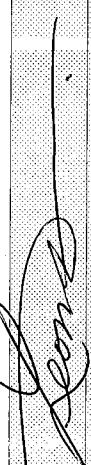



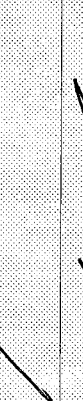

Total containers received: 4

Signature

Print Name

Time

Sample Type Descriptions:

Relinquished by		Leon Duan	1014 02/09/15	GRAB - Instantaneous Grab
Received by				Container Type Descriptions: CUP - Plastic, snap on lid, 250 mL JARXS - Glass, jar, PTFE lined cap, 125 mL JARS - Glass, jar, PTFE line cap, 250 mL QTORG - Glass, WM, PTFE line cap, organic clean, 850 mL
Relinquished by				
Received by				
Relinquished by				
Received by		Andrew OKO	1014 2/9/15	

Samples will be retained beyond the approval process only if requested by the client.

#2
18.4
QTORG

EBMUD LABORATORY COOLER RECEIPT FORM

Login Number: L196340 Received: 09-Feb-2015 10:14
Converted from P204140

Cooler ID: 244780

SHIPPING INFORMATION

- 1. Did cooler come with a shipping slip?
- Tracking number:

PACKAGING AND PRESERVATION

- 1. Ice present?
- 2. Type of cooler packing:
- 3. Temperature of a representative sample. Measured temp: 18.4
Corrected temperature: 17.7
- Container type used to measure temperature: QTORG
- 4. SWEET cont. > 10 C received >= 2 hrs. after collection: No

LOGIN PHASE

- 1. Containers intact? Yes
- 2. Preservation correct? Yes
- 3. Correct sample containers? Yes
- 4. Sufficient sample volume? Yes
- 5. Labels legible? Yes
- 6. Label info agrees with COC? Yes
- 7. Label information complete? Yes
- 8. Bubbles present in VOA-type containers? No
- Container IDs w/ bubbles: No
- 9. Senior Chemist notified of anomalies? No
- Senior Chemist called who called?

CHAIN OF CUSTODY DOCUMENTATION

- 1. COC signed by Lab?
- 2. Project identified on COC?
- 3. COC info complete?

Comments:

244780 Intent to cool.


Site / locator: WWTP SCUM/CONCENTRATOR

No									
No									
None									
18.4									
17.7									
QTORG									
No									
Yes									
Yes									
Yes									
Yes									
Yes									
Yes									
Yes									
No									
No									
Yes									
Yes									
Yes									

Analytical Report Prepared for DAVE FREITAS

Report generated on: Mar 04, 2015 04:26 pm
Login No.: L196340

Reported by:



SUSAN B. BERG
Laboratory Program Manager

Approved by:



NIRMELA ARSEM
Laboratory Services Division Manager

LSR B913-9501-2

Project Title: SD1 AERATED GRIT & SCUM: ANNUAL MONITORING

Login Performance Summary

1 - Sample received by the lab on: Feb 09 2015, 10:14 am
0 - Lost Analyses
0 - Hold Time Exceedences
Turn-around-time not met

Samples included in this report:

Sample	Type Collected	Site	Locator	ClientID
L196340-1	GRAB 09-Feb-2015 10:00	WWTP SCUM	CONCENTRATOR	-

Legend to the laboratory qualifiers used in this report:

N - Spike recovery outside of control limits
U - Analyte not detected
Qualifiers for subcontract work - See textvalue for description



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Analytical Results Report

LSR B913-9501-2 SD1 AERATED GRIT & SCUM: ANNUAL MONITORING
Site: WWTP SCUM SD-1 Wastewater Treatment Plant : Scum Removal
Locator: CONCENTRATOR (SCMX) Scum Concentrator Combined
Lab ID: L196340-1 (P204140-1)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Feb 09 2015, 10:00am Sample collector: lduan
Date Received: Feb 09 2015, 10:14am Sample receiver: AOKO
Sample Comments: 9071 total and 9071 SGT

Method Reference	Qualifier	Result	Units	Dilution	MDL	Matrix	Tag
Parameter						RL/ML	
Method: EPA 9071B - Hexane Extractable Material , Gravimetric.						MiscSolid	1
Subcontract data from Alpha Analytical Lab							
SUBCONTRACT LAB DATA							
OIL AND GREASE (HYDROCARBON)		220,000	mg/kg		90	250	
Run ID: R258684 / Work Group No.: WG197792							
Prep Date: 12-FEB-15 Analyzed 20-Feb-15 10:06							
Method: EPA 9071B - Hexane Extractable Material , Gravimetric.						MiscSolid	
Subcontract data from Alpha Analytical Lab							
SUBCONTRACT LAB DATA							
OIL AND GREASE		520,000	mg/kg		170	250	
Run ID: R258684 / Work Group No.: WG197792							
Prep Date: 12-FEB-15 Analyzed 19-Feb-15 15:27							
Method: PER SUBCONTRACT LABORATORY REPORT - Subcontract data transmittal						MiscSolid	
Subcontract data							
Comment: Original report transmitted to client. Copy of report archived with data packet.							
SUBCONTRACT LAB DATA							
DATA TRANSMITTAL							
Run ID: R258623 / Work Group No.: WG197760							
Prep Date: 12-FEB-15 Analyzed 19-Feb-15 15:27							
Method: EPA 8260B - Volatile Organics, GC/MS						MiscSolid	
TARGET ANALYTES							
ACETONE		0.39	mg/kg	4	0.3		
ACROLEIN		0.77	mg/kg	4	0.33		
ACRYLONITRILE	U	0.44	mg/kg	4	0.44		
ALLYL CHLORIDE	U	0.22	mg/kg	4	0.22		
TERT-AMYL METHYL ETHER	U	0.24	mg/kg	4	0.24		
BENZENE	U	0.28	mg/kg	4	0.28		
BIS(2-CHLOROISOPROPYL)ETHER	U	0.24	mg/kg	4	0.24		
BROMOBENZENE	U	0.37	mg/kg	4	0.37		
BROMOCHLOROMETHANE	U	0.28	mg/kg	4	0.28		
BROMODICHLOROMETHANE	U	0.27	mg/kg	4	0.27		
BROMOFORM	U	0.20	mg/kg	4	0.2		
BROMOMETHANE	U	0.65	mg/kg	4	0.65		
1,3-BUTADIENE	U	0.17	mg/kg	4	0.17		
TERT-BUTYL ALCOHOL	U	1.4	mg/kg	4	1.4		
N-BUTYLBENZENE	U	0.27	mg/kg	4	0.27		
SEC-BUTYLBENZENE	U	0.28	mg/kg	4	0.28		
TERT-BUTYLBENZENE	U	0.35	mg/kg	4	0.35		
CARBON DISULFIDE	U	0.22	mg/kg	4	0.22		
CARBON TETRACHLORIDE	U	0.25	mg/kg	4	0.25		
CHLOROACETONITRILE	U	1.0	mg/kg	4	1		
CHLOROBENZENE		3.2	mg/kg	4	0.26		
1-CHLOROBUTANE	U	0.26	mg/kg	4	0.26		
CHLOROETHANE	U	0.18	mg/kg	4	0.18		
2-CHLOROETHYL VINYL ETHER	U	0.28	mg/kg	4	0.28		
CHLOROFORM	U	0.29	mg/kg	4	0.29		
CHLOROMETHANE	U	0.28	mg/kg	4	0.28		
O-CHLOROTOLUENE	U	0.28	mg/kg	4	0.28		
P-CHLOROTOLUENE	U	0.28	mg/kg	4	0.28		
DIBROMOCHLOROMETHANE	U	0.20	mg/kg	4	0.2		
DIBROMOCHLOROPROPANE	U	0.22	mg/kg	4	0.22		

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Analytical Results Report

LSR B913-9501-2 SD1 AERATED GRIT & SCUM: ANNUAL MONITORING
Site: WWTP SCUM SD-1 Wastewater Treatment Plant : Scum Removal
Locator: CONCENTRATOR (SCMX) Scum Concentrator Combined
Lab ID: L196340-1 (P204140-1)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Feb 09 2015, 10:00am Sample collector: lduan
Date Received: Feb 09 2015, 10:14am Sample receiver: AOKO
Sample Comments: 9071 total and 9071 SGT

Method Reference						Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
DIBROMOMETHANE	U	0.34	mg/kg	4	0.34		
1,2-DICHLOROBENZENE	U	0.25	mg/kg	4	0.25		
1,3-DICHLOROBENZENE	U	0.29	mg/kg	4	0.29		
1,4-DICHLOROBENZENE	U	0.30	mg/kg	4	0.3		
TRANS-1,4-DICHLORO-2-BUTENE	U	0.38	mg/kg	4	0.38		
DICHLORODIFLUOROMETHANE	U	0.15	mg/kg	4	0.15		
1,1-DICHLOROETHANE	U	0.31	mg/kg	4	0.31		
1,2-DICHLOROETHANE	U	0.27	mg/kg	4	0.27		
1,1-DICHLOROETHENE	U	0.27	mg/kg	4	0.27		
CIS-1,2-DICHLOROETHENE	U	0.32	mg/kg	4	0.32		
TRANS-1,2-DICHLOROETHENE	U	0.32	mg/kg	4	0.32		
1,2-DICHLOROPROPANE	U	0.22	mg/kg	4	0.22		
1,3-DICHLOROPROPANE	U	0.20	mg/kg	4	0.2		
SEC-DICHLOROPROPANE	U	0.26	mg/kg	4	0.26		
1,1-DICHLORO-2-PROPANONE	U	0.26	mg/kg	4	0.26		
1,1-DICHLOROPROPENE	U	0.26	mg/kg	4	0.26		
CIS-1,3-DICHLOROPROPENE	U	0.21	mg/kg	4	0.21		
TRANS-1,3-DICHLOROPROPENE	U	0.20	mg/kg	4	0.2		
DIISOPROPYL ETHER	U	0.26	mg/kg	4	0.26		
ETHYL ACETATE	U	0.38	mg/kg	4	0.38		
ETHYL BENZENE	U	0.24	mg/kg	4	0.24		
ETHYL-T-BUTYL ETHER	U	0.34	mg/kg	4	0.34		
ETHYLENE DIBROMIDE	U	0.25	mg/kg	4	0.25		
ETHYL ETHER	U	0.26	mg/kg	4	0.26		
ETHYLMETHACRYLATE	U	0.29	mg/kg	4	0.29		
FLUOROTRICHLOROMETHANE	U	0.26	mg/kg	4	0.26		
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	U	0.31	mg/kg	4	0.31		
HEXACHLOROBUTADIENE	U	0.35	mg/kg	4	0.35		
HEXACHLOROETHANE	U	0.32	mg/kg	4	0.32		
2-HEXANONE	U	0.26	mg/kg	4	0.26		
IODOMETHANE	U	0.59	mg/kg	4	0.59		
ISOPROPYLBENZENE	U	0.29	mg/kg	4	0.29		
P-ISOPROPYLTOLUENE		0.81	mg/kg	4	0.28		
METHYLACRYLATE	U	0.40	mg/kg	4	0.4		
METHYLACRYLONITRILE	U	0.34	mg/kg	4	0.34		
METHYL-T-BUTYL ETHER	U	0.56	mg/kg	4	0.56		
2-BUTANONE	U	0.32	mg/kg	4	0.32		
METHYLENE CHLORIDE	U	0.27	mg/kg	4	0.27		
4-METHYL-2-PENTANONE	U	0.24	mg/kg	4	0.24		
METHYLMETHACRYLATE	U	0.34	mg/kg	4	0.34		
NAPHTHALENE	U	0.34	mg/kg	4	0.34		
NITROBENZENE	U	0.32	mg/kg	4	0.32		
2-NITROPROPANE	U	0.26	mg/kg	4	0.26		
PENTACHLOROETHANE	U	0.80	mg/kg	4	0.8		
N-PROPYLBENZENE	U	0.30	mg/kg	4	0.3		
STYRENE		0.59	mg/kg	4	0.3		
1,1,1,2-TETRACHLOROETHANE	U	0.30	mg/kg	4	0.3		
1,1,2,2-TETRACHLOROETHANE	U	0.30	mg/kg	4	0.3		
TETRACHLOROETHENE	U	0.25	mg/kg	4	0.25		
TETRAHYDROFURAN	U	0.26	mg/kg	4	0.26		
TOLUENE		1.0	mg/kg	4	0.32		
1,2,3-TRICHLOROBENZENE	U	0.30	mg/kg	4	0.3		
1,2,4-TRICHLOROBENZENE	U	0.35	mg/kg	4	0.35		
1,1,1-TRICHLOROETHANE	U	0.26	mg/kg	4	0.26		
1,1,2-TRICHLOROETHANE	U	0.25	mg/kg	4	0.25		

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Analytical Results Report

LSR B913-9501-2 SD1 AERATED GRIT & SCUM: ANNUAL MONITORING
Site: WWTP SCUM SD-1 Wastewater Treatment Plant : Scum Removal
Locator: CONCENTRATOR (SCMX) Scum Concentrator Combined
Lab ID: L196340-1 (P204140-1)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Feb 09 2015, 10:00am Sample collector: lduan
Date Received: Feb 09 2015, 10:14am Sample receiver: AOKO
Sample Comments: 9071 total and 9071 SGT

Method Reference						Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
TRICHLOROETHENE	U	0.32	mg/kg	4	0.32		
1,2,3-TRICHLOROPROPANE	U	0.35	mg/kg	4	0.35		
1,2,4-TRIMETHYLBENZENE		0.38	mg/kg	4	0.34		
1,3,5-TRIMETHYLBENZENE	U	0.29	mg/kg	4	0.29		
VINYL ACETATE	U	0.28	mg/kg	4	0.28		
VINYL CHLORIDE	U	0.17	mg/kg	4	0.17		
O-XYLENE	U	0.30	mg/kg	4	0.3		
M+P XYLENES	U	0.60	mg/kg	4	0.6		
INTERNAL STANDARD							
FLUOROBENZENE		101	% recovery	1			
D5-CHLOROBENZENE		103	% recovery	1			
D4-1,4-DICHLOROBENZENE		102	% recovery	1			
SURROGATE							
DIBROMOFLUOROMETHANE		93.2	% recovery	1			
D4-DICHLOROETHANE		99.0	% recovery	1			
D8-TOLUENE		101	% recovery	1			
4-BROMOFLUOROBENZENE		100	% recovery	1			

Run ID: R258338 / Work Group No.: WG197426

Prep Date1: 10-FEB-15 Prep Date2: 10-FEB-15 Analyzed 10-Feb-15 19:53

Method: EPA 8270C - Semivolatile Organics, GC/MS						MiscSolid
Historical dilution of 50x to protect instrument.						
TARGET ANALYTES						
ACENAPHTHENE	U	1.4	mg/kg	50	1.4	
ACENAPHTHYLENE	U	2.4	mg/kg	50	2.4	
ANILINE	U	2.6	mg/kg	50	2.6	
ANTHRACENE	U	3.7	mg/kg	50	3.7	
AZOBENZENE	U	4.0	mg/kg	50	4	
BENZIDINE	U	50	mg/kg	50	50	
BENZO (A) ANTHRACENE	U	3.9	mg/kg	50	3.9	
BENZO (B) FLUORANTHENE	U	2.5	mg/kg	50	2.5	
BENZO (K) FLUORANTHENE	U	2.1	mg/kg	50	2.1	
BENZO (GHI) PERYLENE	U	6.0	mg/kg	50	6	
BENZO (A) PYRENE	U	3.2	mg/kg	50	3.2	
BENZOIC ACID	U	50	mg/kg	50	50	
BENZYL ALCOHOL	U	4.2	mg/kg	50	4.2	
BUTYLBENZYL PHTHALATE		5.0	mg/kg	50	3.9	
BIS (2-CHLOROETHOXY) METHANE	U	2.7	mg/kg	50	2.7	
BIS (2-CHLOROETHYL) ETHER	U	1.7	mg/kg	50	1.7	
BIS (2-CHLOROISOPROPYL) ETHER	U	1.8	mg/kg	50	1.8	
BIS (2-ETHYLHEXYL) PHTHALATE		18	mg/kg	50	3.8	
4-BROMOPHENYL PHENYL ETHER	U	9.0	mg/kg	50	9	
4-CHLOROANILINE	U	2.8	mg/kg	50	2.8	
P-CHLORO-M-CRESOL	U	2.8	mg/kg	50	2.8	
2-CHLORONAPHTHALENE	U	2.0	mg/kg	50	2	
2-CHLOROPHENOL	U	1.4	mg/kg	50	1.4	
4-CHLOROPHENYL PHENYL ETHER	U	2.6	mg/kg	50	2.6	
CHRYSENE	U	3.0	mg/kg	50	3	
DIBENZO (A, H) ANTHRACENE	U	3.2	mg/kg	50	3.2	
DIBENZOFURAN	U	2.2	mg/kg	50	2.2	
DI-N-BUTYL PHTHALATE	U	8.0	mg/kg	50	8	
1, 2-DICHLOROBENZENE	U	1.0	mg/kg	50	1	
1, 3-DICHLOROBENZENE	U	1.0	mg/kg	50	1	
1, 4-DICHLOROBENZENE	U	1.1	mg/kg	50	1.1	
3, 3' - DICHLOROBENZIDINE	U	4.0	mg/kg	50	4	

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Analytical Results Report

LSR B913-9501-2 SD1 AERATED GRIT & SCUM: ANNUAL MONITORING
Site: WWTP SCUM SD-1 Wastewater Treatment Plant : Scum Removal
Locator: CONCENTRATOR (SCMX) Scum Concentrator Combined
Lab ID: L196340-1 (P204140-1)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Feb 09 2015, 10:00am Sample collector: lduan
Date Received: Feb 09 2015, 10:14am Sample receiver: AOKO
Sample Comments: 9071 total and 9071 SGT

Method Reference						Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
2,4-DICHLOROPHENOL	U	2.2	mg/kg	50	2.2		
DIETHYL PHTHALATE	U	5.0	mg/kg	50	5		
2,4-DIMETHYLPHENOL	U	2.8	mg/kg	50	2.8		
DIMETHYL PHTHALATE	U	2.8	mg/kg	50	2.8		
4,6-DINITRO-O-CRESOL	U	50	mg/kg	50	50		
2,4-DINITROPHENOL	U	50	mg/kg	50	50		
2,4-DINITROTOLUENE	U	3.7	mg/kg	50	3.7		
2,6-DINITROTOLUENE	U	3.6	mg/kg	50	3.6		
DI-N-OCTYL PHTHALATE		7.6	mg/kg	50	2.8		
FLUORANTHENE	U	10	mg/kg	50	10		
FLUORENE	U	2.0	mg/kg	50	2		
HEXACHLOROBENZENE	U	4.6	mg/kg	50	4.6		
HEXACHLOROBUTADIENE	U	1.4	mg/kg	50	1.4		
HEXACHLOROCYCLOPENTADIENE	U	50	mg/kg	50	50		
HEXACHLOROETHANE		2.4	mg/kg	50	1.4		
INDENO(1,2,3-CD)PYRENE	U	3.4	mg/kg	50	3.4		
ISOPHORONE	U	2.8	mg/kg	50	2.8		
2-METHYLNAPHTHALENE	U	3.2	mg/kg	50	3.2		
2-CRESOL	U	2.8	mg/kg	50	2.8		
3-,4-METHYLPHENOL	U	2.3	mg/kg	50	2.3		
NAPHTHALENE	U	1.0	mg/kg	50	1		
2-NITROANILINE	U	3.6	mg/kg	50	3.6		
3-NITROANILINE	U	3.0	mg/kg	50	3		
4-NITROANILINE	U	5.5	mg/kg	50	5.5		
NITROBENZENE	U	3.3	mg/kg	50	3.3		
2-NITROPHENOL	U	1.3	mg/kg	50	1.3		
4-NITROPHENOL	U	50	mg/kg	50	50		
N-NITROSODIMETHYLAMINE	U	2.1	mg/kg	50	2.1		
N-NITROSODIPHENYLAMINE	U	14	mg/kg	50	14		
N-NITROSODI-N-PROPYLAMINE	U	2.1	mg/kg	50	2.1		
PENTACHLOROPHENOL	U	50	mg/kg	50	50		
PHENANTHRENE	U	3.1	mg/kg	50	3.1		
PHENOL	U	2.2	mg/kg	50	2.2		
PYRENE	U	7.5	mg/kg	50	7.5		
PYRIDINE	U	50	mg/kg	50	50		
1,2,4-TRICHLOROBENZENE	U	1.0	mg/kg	50	1		
2,4,5-TRICHLOROPHENOL	U	3.9	mg/kg	50	3.9		
2,4,6-TRICHLOROPHENOL	U	50	mg/kg	50	50		
INTERNAL STANDARD							
D4-1,4-DICHLOROBENZENE		97.2	% recovery	1	1		
D8-NAPHTHALENE		96.6	% recovery	1	1		
D10-ACENAPHTHENE		92.8	% recovery	1	1		
D10-PHENANTHRENE		86.3	% recovery	1	1		
D12-CHRYSENE	N	44.0	% recovery	1	1		
D12-PERYLENE	N	17.0	% recovery	1	1		
SURROGATE							
2-FLUOROPHENOL		37	% recovery	1			
D5-PHENOL		56	% recovery	1			
D5-NITROBENZENE		41	% recovery	1			
2-FLUOROBIPHENYL		78	% recovery	1			
2,4,6-TRIBROMOPHENOL		94	% recovery	1			
D14-P-TERPHENYL		52	% recovery	1			

Run ID: R258683 / Work Group No.: WG197694

Prep Date1: 10-FEB-15 Prep Date2: 23-FEB-15 Analyzed 24-Feb-15 19:37

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Analytical Results Report

LSR B913-9501-2 SD1 AERATED GRIT & SCUM: ANNUAL MONITORING
Site: WWTP SCUM SD-1 Wastewater Treatment Plant : Scum Removal
Locator: CONCENTRATOR (SCMX) Scum Concentrator Combined
Lab ID: L196340-1 (P204140-1)
Sample Type: GRAB (Instantaneous Grab)
Date Collected: Feb 09 2015, 10:00am Sample collector: lduan
Date Received: Feb 09 2015, 10:14am Sample receiver: AOKO
Sample Comments: 9071 total and 9071 SGT

Method Reference						Matrix	Tag
Parameter	Qualifier	Result	Units	Dilution	MDL	RL/ML	
Method: SM2540B - 1997, Dried at 103-105C						MiscSolid	
TARGET ANALYTES							
TOTAL SOLIDS		59	%	1	0.05		
Run ID: R258281 / Work Group No.: WG197417							
Prep Date1: 10-FEB-15 Analyzed 10-Feb-15 14:40							
Method: EPA 6010B - ICP Scan						MiscSolid	
TARGET ANALYTES							
ARSENIC	U	2.31	mg/kg	.0926	2.31		
BARIUM		16.3	mg/kg	.0926	0.185		
BERYLLIUM	U	0.0370	mg/kg	.0926	0.037		
CADMIUM		0.198	mg/kg	.0926	0.185		
COBALT		0.190	mg/kg	.0926	0.185		
CHROMIUM		2.64	mg/kg	.0926	0.185		
COPPER		10.3	mg/kg	.0926	0.463		
MOLYBDENUM	U	0.370	mg/kg	.0926	0.37		
NICKEL		1.66	mg/kg	.0926	0.278		
LEAD		1.86	mg/kg	.0926	0.556		
ANTIMONY	U	1.76	mg/kg	.0926	1.76		
SELENIUM	U	1.57	mg/kg	.0926	1.57		
THALLIUM	U	1.20	mg/kg	.0926	1.2		
VANADIUM		0.715	mg/kg	.0926	0.278		
ZINC		44.0	mg/kg	.0926	0.648		
Run ID: R258291 / Work Group No.: WG197428							
Prep Date1: 11-FEB-15 Analyzed 11-Feb-15 10:13							
Method: EPA 7471A - Cold Vapor AA						MiscSolid	
TARGET ANALYTES							
MERCURY		0.050	mg/kg	1	0.03		
Run ID: R258591 / Work Group No.: WG197678							
Prep Date1: 24-FEB-15 Analyzed 24-Feb-15 14:32							
Method: EPA 7761 - Graphite Furnace AA						MiscSolid	
TARGET ANALYTES							
SILVER		0.10	mg/kg	1	0.03		
Run ID: R258385 / Work Group No.: WG197514							
Prep Date1: 09-FEB-15 Prep Date2: 17-FEB-15 Analyzed 17-Feb-15 08:30							

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