



REQUEST FOR BID
RESIDUAL BIOSOLIDS MANAGEMENT

Bid Number 2021-WR-09

May 2021

CLAYTON COUNTY WATER AUTHORITY
1600 Battle Creek Road
Morrow, GA 30260

Virtual Bid Opening **Tuesday, July 6, 2021 at 10:00 am local time**

Non-Mandatory
Pre-Bid Virtual Meeting **Tuesday, June 22, 2021 at 10:00 am local time**

This bid has a SLBE BID DISCOUNT

Table of Contents

Division 1 General Information

Section 1	Request for Bids	1-1.1
Section 2	Project Overview	1-2.1
2.1	Intent and Purpose	1-2.1
2.2	Bid Evaluation	1-2.2
2.3	Addendum	1-2.2

Division 2 Bid Requirements

Section 1	Instructions to Bidders	2-1.1
Section 2	Risk Management Requirements	
Section 3	Bid Submittals	2-3.1
Section 4	Bid Form	2-4.1
Section 5	Georgia Bid Bond (Not Required)	
Section 6	Bidder Qualification Information	2-6.1
Section 7	Contractor Affidavit & Agreement	2-7.1
Section 8	Small Local Business Enterprises (SLBE) General Information	2-8.1

Division 3 Contract Forms

Section 1	Agreement Form.....	3-1.1
Section 2	Performance Bond (Not Required)	
Section 3	Payment Bond (Not Required)	
Section 4	Non-Collusion Certificate	3-4.1

Division 4 Specifications

Section 1	General Requirements	4-1.1
-----------	----------------------------	-------

Attachments

Attachment A - Laboratory Report

Attachment B - Special Waste Profile – Recertification

Vendor Information Form

W-9 Form

Addenda (None Issued at This Time)

END OF TABLE OF CONTENTS

Division 1

General Information

Section 1: Request for Bids

Clayton County Water Authority
1600 Battle Creek Road
Morrow, Georgia 30260

Name of Project: **Residual Biosolids Management**

The Clayton County Water Authority will open sealed bids via a Virtual Teams Meeting on **Tuesday, July 6, 2021 at 10:00 a.m. (local time)** for the following project: **Residual Biosolids Management**. Any bids received after the specified time will not be considered.

A Non-Mandatory Pre-Bid Virtual Teams Meeting will be held on **Tuesday, June 22, 2021 at 10:00 a.m. (local time)**.

Please use the following call-in instructions to attend the Pre-Bid and Bid Opening meeting:

[Join Microsoft Teams Meeting](#)

[+1 912-483-5368](#)

Conference ID: 996 457 814#

CCWA encourages Small Local, Minority and Women-Owned businesses to participate and respond to this bid request.

In an effort to promote responsible environmental practices the bid package is available in electronic (Adobe PDF) format and can be requested via e-mail at **CCWA_Procurement@ccwa.us**, or by calling **770-960-5223**, M-F, 8:00 am - 5:00 pm. Bidders will need to provide contact information and an email address and any file size transfer limits to ensure email transmittals can be made. A hardcopy bid package can also be requested at a cost of \$25.

*Clayton County Water Authority
By: Robin Malone, Chairperson*

END OF SECTION

Division 1

General Information

Section 2: Project Overview

1.1 Intent and Purpose

This is an invitation to your firm to submit a sealed bid for **Residual Biosolids Management** for the Clayton County Water Authority's Northeast, Casey, and Shoal Creek Water Reclamation Facilities for the time period of **September 1, 2021 to August 31, 2022**.

The contract may be extended for a second and/ or third one-year term by mutual consent of both parties with no changes in terms, conditions or prices.

The bids shall be delivered or mailed to the Clayton County Water Authority (CCWA), located at 1600 Battle Creek Road, Morrow, Georgia 30260, in a sealed envelope, on or before **Tuesday, July 6, 2021 at 10:00 a.m. (local time)**. The envelope shall be marked "Sealed Bid" and carry the bid title, date, and time of bid opening (refer to General Instructions to Bidders). Any and all bids received after this date and time will be considered unresponsive.

The prospective bidders are to carefully examine the work description given herein and sign where indicated that he or she understands the work required and agrees to perform the work as specified.

The CCWA Standards will govern all work under this contract for Residual Biosolids Management, as well as all applicable United States, State of Georgia, and local laws/regulations.

The work shall be performed under the direction of the Director of Water Reclamation of the Clayton County Water Authority or his authorized designated representative. Payment requests shall be addressed to the Water Reclamation Department of the Clayton County Water Authority for processing.

For those bidders that do not attend the non-mandatory pre-bid conference meeting on Tuesday, June 22, 2021 at 10:00 a.m. or for those bidders who wish to visit the sites may do so with the following limitations:

Each Bidder shall schedule a Site visit on **Wednesday, June 23, 2021 from 10:00am to 3:00 pm**. local time. Bidder shall schedule the Site visit at least 24 hours in advance by contacting the following CCWA staff for each location:

Mr. Herlon Fayard (Northeast WRF):

770-302-3450

herlon.fayard@ccwa.us

Division 1

General Information

Section 2: Project Overview

Mr. Mike Holt (Shoal Creek WRF):

770-302-3448

Mike.holt@ccwa.us

Mr. Tony Somerville (Casey Pelletizing):

770-302-3457

tony.somerville@ccwa.us

As part of the effort to maintain the health and safety of CCWA personnel – as well as visitors – CCWA has put in place the following procedures, practices and protocols:

- A: Each visitor shall complete the COVID-19 Health Assessment via DOCS Health Works. Download the DOCS Health Works app based on your device by going to the Apple Store or Google Play and download DOCS HealthWorks app. DOCS Health Works is also available by internet at <https://secure.dentrustocs.com/docs/covidscreening/weblogin>.
- B: Once the DOCS Health Works app is installed, click the icon to open the program. Complete the fields as follows:
 - a. ID is VISITOR
 - b. Location Code is GTW3
 - c. Click Next. Enter your personal email and telephone number.
 - d. Create a 4-digit pin. Click Submit
 - e. You are now registered in the system.
- C: Complete the COVID-19 health assessment on the app or website. If everything is within normal parameters, you will receive a QR code for identification at the CapScann kiosk (this QR code is good for 24 hours).
- D: When you arrive to the facility, present the QR code to the CapScann device for identification.
- E: The CapScann device will then instruct you to place your wrist in the device opening, aligning it with infrared light crosshairs for a precise temperature reading. Once the CapScann device provides the green light indicating normal temperature, you are authorized to enter the facility.

Division 1

General Information

Section 2: Project Overview

F: Visitor(s) shall provide, wear, and use their own Personal Protective Equipment (PPE - face mask/covering, gloves, disinfectant) while in public areas for the duration of the Site visit. The entire property of the Shoal Creek WRF is considered a 'public area'.

G: Visitor(s) shall practice physical (social) distancing while at the Facility by providing others a personal space of at least six (6) feet during the visit.

H: Visitor(s) will not have access to the Administration Building and public rest rooms.

The purpose of the site visit(s) is to view the solids loading facilities and the solids to be hauled and disposed. It is strongly encouraged that each bidder visits all three water reclamation facilities.

1.2 Bid Evaluation

A contract will be awarded to the lowest responsive responsible bidder whose bid conforms to the RFB specifications and will be the most advantageous to the Clayton County Water Authority. An evaluation will also be performed to ensure bidders comply with the required submittals.

All items and estimated quantities shown on the Bid Form are our best estimate on annual requirements and will be used for evaluation purposes only.

This procurement has a Small Local Business Enterprise (SLBE) bid discount for evaluation purposes only, which will be given to CCWA certified SLBE primes only (regardless of their location). For more details, please refer to Division 2, Section 8 of this bid package.

1.3 Addendum

Bidders may ask questions regarding this bid prior to the bid opening. To be considered, all questions must be received in writing via email at **(CCWA_Procurement@ccwa.us)** by **10:00 a.m. local time, on Thursday, June 24, 2021**. Any and all responses to bidders' questions will be issued in the form of an Addendum via email. All addenda issued shall become part of the Bid Documents.

END OF SECTION

Division 2

Bid Requirements

Section 1: Instructions to Bidders

These instructions are to be followed by every entity proposing to provide the Clayton County Water Authority (CCWA) with goods and/or services. These instructions constitute an integral part of the bid, and any Bidder agrees that tender of a bid constitutes acknowledgment and acceptance of its obligation to adhere to these instructions, which are to be incorporated into and considered part of any contract the Bidder ultimately executes with the CCWA.

1. If there is any question whatsoever regarding any portion of the specifications, it shall be the Bidder's responsibility to seek clarification immediately from the CCWA, as early as possible prior to the bid opening. Regarding public works projects, requests for interpretations of specifications must be made in writing to the department proposing out the project not later than five (5) days prior to receipt of bids.
2. Unless it is otherwise stated in the bid documents, it shall be the responsibility of the bidder to inform itself as to all conditions of the work site and to make and take account thereof in calculating and submitting its bid. Documents may be made available by the CCWA during the bidding process; no warranty of accuracy is made in regard to these documents, and it is the responsibility of the bidder to make its own investigations as to the nature of the work and the conditions under which it shall be performed, and to make its own independent assumptions as to these matters. The burden of anticipating unforeseen circumstances, either hidden or latent, and the conditions of the work site and all related circumstances, and the cost of accommodating therefore should unanticipated circumstances be later encountered shall rest upon the bidder.
3. Pre-bid meeting or any other information session will be held at the location as indicated in the solicitation. Unless indicated otherwise, attendance is not mandatory; although vendors are strongly encouraged to attend. However, in the event the meeting is mandatory, then a representative of the vendor must attend the meeting in its entirety to be considered eligible for solicitation award. Late entry to the meeting will not be allowed.
4. In the event that, after the acceptance of a bid by the Board of Directors of the CCWA, any unsuccessful bidder wishes to contest such action, a written "Notice of Contest" must be filed with the General Manager no later than close of business on the 5th business day after the selection of successful bidder by the Board. Failure to timely file such notice shall forever preclude the filing of a contest of the award, or any civil action in the courts of the State of Georgia or of the United States.

Division 2

Bid Requirements

Section 1: Instructions to Bidders

5. Information submitted by the Bidder in the bid process shall be subject to disclosure after bid award in accordance with the Georgia Open Records Act. Proprietary information must be identified and be accompanied by a signed affidavit outlining the redacted information. Entire bids may not be deemed proprietary.
6. Bids must be made on the enclosed bid Form. Unless otherwise requested, one (1) original and at least two (2) copies of the bid Form need to be submitted, and these copies must be typewritten or printed in ink. All copies of any bid Forms must be signed in ink by the person or persons authorized to sign the bid Form. The person signing the bid Form must initial any changes or corrections.
7. The name of the person, firm, or corporation making the bid must be printed in ink, along with the Bidder's signature, on all separate sheets of the bid Form. If a bid is made by an individual, his name and post office address must be shown. If made by a firm, or partnership, the name and the post office address of each member of the firm or partnership must be shown. If made by a Corporation, the person or persons signing the bid must show the name of the State under the laws of which the Corporation is chartered and his, or their, authority for signing same. The names, titles and addresses of the President, Secretary and the Treasurer and the corporate authority for doing business in this state shall be listed and returned with the bid Form.
8. All bids must be hand delivered, delivered by courier service, or mailed via the United States Postal Service. No facsimiles will be accepted. The person, firm, or corporation making the bid shall submit it in a sealed envelope on or before the date and time specified in the bid package. The envelope shall be marked "**Sealed Bid**" and carry the bid title, Contractor's License Number and date and time of opening as set forth in the bid package. The envelope shall also bear the name of the party making the bid and the party's address. Address bids to *Clayton County Water Authority, 1600 Battle Creek Road, Morrow, Georgia, 30260*. Even if a bid is not submitted, the bid form should be returned signed and with an explanation, otherwise the result will be deletion from the mailing list.
9. If published price books are a part of your bid, one price book must be included with your bid Form, and the successful Bidder is required to furnish additional current price books after award of the bid.
10. Alterations to the documents are strictly prohibited and shall result in automatic disqualification of the Bidder's bid. If there are "exceptions" to the specifications or comments to any of the solicitation requirements or other language, then the bidder

Division 2

Bid Requirements

Section 1: Instructions to Bidders

may ask questions regarding those requirements or submit additional documentation as to the variation from the specifications but may not alter any of the language contained in the solicitation.

11. In the case of goods, the person, firm or corporation making the bid may propose all items. All items may be considered separately, at the discretion of the CCWA.
12. Bids for public works whose price exceeds \$100,000.00 must be accompanied by a certified check, cashier's check, or acceptable bid bond in an amount not less than five percent (5%) of the amount bid.
13. Bidders for construction contracts where the laws of Georgia or the United States of America require a license in order to perform such construction must list the license number and class on the face of the bid envelope and must enclose copies of any required license with the bid.
14. When public work is let out for bid, no person shall prevent or attempt to prevent competition in such bid. Such Bidders must make an oath filed with the officer who makes payments under the contract that they have not prevented or attempted to prevent competition in the bid process. Such oath must be signed by: if a partnership, all partners and any officer or agent or other person who acted on the partnership's behalf during the bid process; if a corporation, all officers, agents, or other persons who acted for the corporation in the bid process.
15. Bids shall not be withdrawn or cancelled by the bidder past the bid opening date and time. The bidder may make modifications/corrections to the bid by submitting a corrected seal bid but only if the change is prior to the bid opening. The corrected document should be clearly marked that it supersedes the bid originally submitted. No modification or corrections will be allowed subsequent to the bid opening.
16. By tendering a bid, a Bidder agrees to leave the bid open for acceptance by the CCWA for ninety (90) days after the date set for the opening thereof.
17. By tendering a bid, the Bidder certifies that the Bidder has carefully examined these instructions and the terms and specifications applicable to and made a part of the bid. The Bidder further certifies that the prices shown in any schedule of items on which the Bidder is proposing are in accordance with the conditions, terms and specifications of the bid and that they are aware that any exception taken thereto may disqualify the bid. Bidders are required to inform themselves fully as to the availability of materials and the conditions relating to construction and labor under which any work will be or is now being performed. No error or misjudgment nor any

Division 2

Bid Requirements

Section 1: Instructions to Bidders

lack of information on local conditions, general laws or regulations on the part of the Bidder shall merit withdrawal of the bid.

18. Copies of all communication pertaining to bids must be sent to the Contracts, Compliance and Risk Management Section.
19. The purpose of this bid is to establish contract prices. Unit price extension and net total must be shown if applicable. Cash discounts should be indicated separately. Any applicable sales taxes should be included in the unit prices for all materials to be provided by the successful Bidder.
20. Bidders are hereby notified and agree by submission of a bid Form that if additional items not listed in the bid Form become necessary and require unit prices not established by the bid Form, the unit prices of such items shall be negotiated and shall be directly proportional to the established unit prices of similar items in the bid Form.
21. All prices on goods shall be for delivery, our destination, f.o.b. freight prepaid Jonesboro, Georgia, and/or Morrow, Georgia, unless otherwise shown. Any deliveries shall be made as needed and requested throughout the contract period.
22. Quantities when shown are estimates only, based on anticipated needs. The CCWA reserves the right to purchase more or less based on actual need at contract price. If a Bidder intends to offer minimum or maximum shipment quantities, such intent and such quantities should be specified on the bid Form. Otherwise, none will be assumed.
23. The time for completion of the work is stated in the bid Form. Failure to complete the work within this period shall result in payment to the CCWA of liquidated damages in an amount provided for by contract for each calendar day in excess of the Contract time.
24. The Bidder must employ such methods and means in carrying out the work as will not cause any interruption of or interference with any other Bidder.
25. The successful Bidder must comply with the applicable Risk Management Requirements prior to beginning performance, and during the contract period.
26. The Contract between the CCWA and the Bidder shall be executed on a form provided by CCWA and will be subject to all requirements of the contract documents (which include but may not be limited to the Contract, these instructions,

Division 2

Bid Requirements

Section 1: Instructions to Bidders

any Purchase Orders, and the Risk Management Requirements), and shall form a binding contract between the contracting parties.

27. Failure to execute the Contract, any required Surety Performance and Payment Bonds, or to furnish any required satisfactory proof of carriage of required insurance within ten (10) days from the date of notice of award of the Contract shall be just cause for the annulment of the award and for forfeiture of the bid guaranty to the CCWA, not as a penalty, but in liquidation of damages sustained. At the discretion of the CCWA, the award may then be made to the next lowest responsible vendor, or the work may be re-advertised or constructed by the CCWA.
28. Any Contract and Contract Bonds shall be executed in duplicate.
29. Award of this bid shall be by action of the CCWA Board at its regular monthly meeting.
30. The CCWA reserves the right, with or without notice or cause, to accept any bid regardless of the cost thereof; to reject any bid, or any number of bids; to negotiate with any Bidder for a reduction of or alterations in its bid; to reject all bids and to call for additional bids upon the same or different invitations to bid, plans or specifications; to be sole judge, in its discretion, on all questions as to whether or not a bid complies with the invitation to bid, the plans or the specifications, and as to the solvency and sufficiency of any and all sureties on all bonds.
31. The apparent low bid for goods shall be considered to be the lowest aggregate total price of specified products at their unit prices times the estimated required quantities of these specified products.
32. Bids received from two (2) or more vendors that are identical in price, delivery and meet the requirements of the bid specifications shall be awarded on the following basis:
 - a. The bid submitted by a vendor who does not have a documented negative vendor performance record.
 - b. The bid submitted by a vendor who is located within Clayton County.
 - c. The bid submitted by a vendor who is certified by our Small Local Business Enterprise Program.
 - d. If the tie bids meet all the above criteria, and it is not in CCWA's best interest (at its sole discretion) to split the award, the bid award is based on the toss of a coin by CCWA staff in a public session. The vendors involved will be invited

Division 2

Bid Requirements

Section 1: Instructions to Bidders

to attend the coin toss at a stated date and time. One or more witnesses from both CCWA Procurement and the Request Department may be present. A simple coin toss (called by the vendor listed first in the alphabet) will break the tie and decide the award.

33. While price is the prime criteria, and the CCWA intends to purchase at the lowest responsible bid available, price shall not be the sole criteria utilized by the CCWA in evaluating the bid package submitted. The following criteria shall also be utilized by the CCWA in determining the lowest responsible bid:
 - a. Ability of bidder to perform in the time frame needed by the CCWA.
 - b. Reputation of the bidder in its industry.
 - c. Reasonableness of the bid in relation to anticipated costs.
 - d. Ongoing relationships with the CCWA based on above-average prior performance of work with CCWA.
 - e. Preference for local vendors where there is no significant variance in price or service.
34. Bidders are notified that CCWA reserves the right except in the case of public works contracts to include among the factors considered in awarding the contract the proximity of each Bidder's place of business to any affected Authority facility. CCWA further reserves the right to award the contract to a Bidder other than the Bidder offering the lowest price where: (a) the difference in price between the low Bidder and the preferred Bidder is nominal; and (b) CCWA's Board determines that the preferred bid provides the most cost effective option due to the closer proximity of the preferred Bidder's place of business to the affected Authority facility or facilities. In such a situation, by responding to this bid, the Bidder waives any cause of action against CCWA for frustration of bid or under any similar legal theory; furthermore, the Bidder agrees to pay all costs and expenses, including but not limited to attorney fees, incurred by CCWA in defending against any such claim.
35. It is the policy of the Clayton County Water Authority (CCWA) to promote award of sub-agreements for goods and/or services to qualified minority and women-owned businesses. Bidders are encouraged to solicit minority and women-owned businesses whenever they are potential sources.
36. Bidders are encouraged to utilize the services and assistance of the U.S. Small Business Administration (SBA), and the office of the Department of Commerce Minority Business Development Agency (MBDA). These agencies can provide

Division 2

Bid Requirements

Section 1: Instructions to Bidders

assistance in securing the names of qualified minority and women-owned businesses. Additionally, it is encouraged that bidders access certified Small Local Business Enterprise (SLBE) vendors from Clayton County, DeKalb County, and City of Atlanta.

The Georgia Department of Transportation (DOT) has established a list of qualified Disadvantaged Business Enterprises. Information is available online under the tab for "Directories", link for "UCP Directory - Excel" at:

<http://www.dot.ga.gov/PS/Business/DBE>.

The successful Bidder will be asked to provide, along with his Request for Payment each month a list of qualified SLBE and MBE/WBE businesses utilized on this Project.

GEORGIA SECURITY AND IMMIGRATION COMPLIANCE ACT OF 2006

37. Pursuant to the Georgia Security and Immigration Compliance Act of 2006, the successful Bidder understands and agrees that compliance with the requirements of O.C.G.A.13-10-91 and Georgia Department of Labor Rule 300-10-02 are conditions of this bid and contract document. The Bidder further agrees that such compliance shall be attested by the Bidder and any of his Subcontractors by execution of the appropriate Affidavit and Agreement included after the Agreement Form of these documents.

END OF SECTION

Division 2

Bid Requirements

Section 2: Risk Management Requirements

The Contractor will provide minimum insurance coverage and limits as per the following: The Contractor will file with the Authority Certificates of Insurance, certifying the required insurance coverages and stating that each policy has been endorsed to provide thirty (30) day notice to the Authority in the event that coverage is cancelled, non-renewed or the types of coverage or limits of liability are reduced below those required. All bonds and insurance coverage must be placed with an insurance company approved by Authority Management, admitted to do business in the State of Georgia, and rated Secure (“B+” or better) by A.M. Best Company in the latest edition of Property and Casualty Ratings, or rated by Standard & Poors Insurance Ratings, latest edition as Secure (“BBB” or better). Worker’s Compensation self-insurance for individual Contractors must be approved by the Worker’s Compensation Board, State of Georgia and/or Self-Insurance pools approved by the Insurance Commissioner, State of Georgia.

CONTRACTS FOR UP TO \$50,000

Worker’s Compensation – Worker’s Compensation coverage on a statutory basis for the State of Georgia with an Employer’s Liability limit of \$100,000 each Accident, Disease \$100,000 each employee, \$500,000 Disease policy limit.

Automobile Liability – Automobile liability coverage for owned, hired and non-owned vehicles in the amount of \$500,000 combined single limit.

Commercial General Liability – Coverage to be provided on “occurrence” not “claims made” basis. The coverage is to include Contractual liability, Per Project Limit of Liability, losses caused by Explosion, Collapse and Underground (“xcu”) perils, the “Clayton County Water Authority” is to be added as an Additional Insured and Products and Completed Operations coverage is to be maintained for three (3) years following completion of work.

CONTRACTS FOR MORE THAN \$50,000

Worker’s Compensation – Worker’s Compensation coverage on a statutory basis for the State of Georgia with an Employer’s Liability limit of \$1,000,000. The increased Employer’s Liability limit may be provided by an Umbrella or Excess Liability policy.

Automobile Liability - Automobile liability coverage for owned, hired and non-owned vehicles in the amount of \$1,000,000 combined single limit.

Commercial General Liability – Coverage to be provided on “occurrence” not “claims made” basis. The coverage is to include Contractual liability, Per Project Limit of Liability, losses caused by Explosion, Collapse and Underground (“xcu”) perils, the “Clayton County Water Authority” is to be added as an Additional Insured and Products and Completed Operations coverage is to be maintained for three (3) years following completion of work.

Division 2

Bid Requirements

Section 2: Risk Management Requirements

RISK MANAGEMENT REQUIREMENTS (Cont'd)

CONTRACTS FOR UP TO \$50,000

CONTRACTS FOR MORE THAN \$50,000

LIMITS OF LIABILITY:

\$1,000,000	Per Occurrence
\$1,000,000	Personal and Advertising
\$50,000	Fire Damage*
\$5,000	Medical Payments*
\$1,000,000	General Aggregate
\$1,000,000	Products/Completed Operations per Occurrence and Aggregate

**These are automatic minimums*

Owner's Protective Liability – The Authority Management's may, in its discretion, require Owner's Protective Liability in some situations.

Umbrella and/or Excess Liability – The umbrella or Excess Liability Policy may be used to combine with underlying policies to obtain the limits required. The Management of the Authority may elect to require higher limits.

Owner's Protective Liability – The Authority Management's may, in its discretion, require Owner's Protective Liability in some situations.

END OF SECTION

Division 2

Bid Requirements

Section 3: Bid Submittals

3.1 Required bid submittals

Please complete and submit the following forms with your bid:

- A. Special Provisions, Division 2, Section 3.3, page 2-3.2.
- B. Bid Form, Division 2, Section 4.
- C. Bidder Qualification Information, including References and Questionnaire.
- D. Georgia Security and Immigration Compliance Act of 2006 form.
- E. Contractor Affidavit and Agreement form.
- F. Subcontractor Affidavit form.

If a Contractor/Subcontractor will not be performing any services under this contract, the Contractor/company submitting the bid MUST also complete, sign, date, and have both Affidavit forms notarized and make proper notation of "N/A" - Not Applicable.

CCWA cannot consider any bid which does not include completed affidavits. It is not the intent of this notice to provide detailed information or legal advice concerning the Georgia Security & Immigration Compliance Act of 2006, as amended on May 11, 2009. All Bidders intending to do business with CCWA are responsible for independently apprising themselves and complying with the requirements of that law and its effect on CCWA procurements and their participation in those procurements.

- G. SLBE Form 1-P.
- H. Vendor Information Form.
- I. W-9 Form.
- J. Addenda (if any issued).

3.2 Required Post Award Submittals:

The successful bidder must provide quarterly reports of volume, reuse and compliance with EPA's 40 CFR Part 503 Regulations to CCWA.

Division 2

Bid Requirements

Section 3: Bid Submittals

3.3 Special Provisions

No work will be assigned to subcontractors without the prior written approval of the CCWA.

Clayton County Water Authority reserves the right to perform a site visit at any time during the RFB process and the contract period.

All of these facilities operate 24 hours per day seven days per week and all bidders will be given access as granted by the Plant Manager of the facility. Prior notification will be necessary before access is permitted. See Division 1: Section 2 – Project Overview for contact information.

It is the intention of CCWA to be environmental friendly with the disposal of these biosolids, therefore CCWA will offer a 5% bid price discount (for bid price evaluation purposes only) to any or all bidders that provide EPA defined Class “A” Biosolids disposal option (beneficial reuse) as part of their bid submittal. See EPA’s 40 CFR Part 503 – Standards for the use or disposal of sewage sludge. A copy of CCWA previous year’s analytic report submitted to EPA is included as **Attachment A**. The Clayton County Water Authority reserves the right to inspect any disposal site for compliance with Class “A” biosolids standards and any other issues. The Current “Residual Biosolids Management” contract is with EARTH Products Inc. at a price of \$79.00 per wet ton. In addition, all CCWA solids are approved for disposal at the Republic Services Pine Ridge Landfill located at 105 Bailey Jester Rd. Griffin, GA, 30224. A copy of CCWA’s approval for landfill is included as **Attachment B**.

The Contractor must provide the necessary insurance and other requirements as per attached “Risk Management Requirements”.

I have read and understand the scope of work, conditions, and requirements. I also understand, and have provided, all documentation required to be included in this Request for Bid. Omission of any part of the requested documentation may result in the bid being deemed unresponsive by the CCWA.

Signed: _____

Name (Printed): _____

Title: _____

Company: _____

Date: _____

END OF SECTION

Division 2

Bid Requirements

Section 4: Bid Form

Bid of _____

(Hereinafter "Bidder"), organized and existing under the laws of the State of _____, doing business as _____ (insert "a corporation," "a partnership," or "an individual" or such other business entity designation as is applicable).

To the Clayton County Water Authority (hereinafter "Owner").

In compliance with the Request for Bids, Bidder hereby proposes to perform all Work for **Residual Biosolids Management** in strict accordance with the bid documents as enumerated in the Request for Bids, within the time set forth therein, and at the prices stated below.

By submission of this bid, Bidder certifies, and in the case of joint bid each party thereto certifies as to the party's own organization that this bid has been arrived at independently, without consultation, communication, or agreement as to any matter relating to this bid with any other Bidder or with any competitor. Bidder also certifies compliance with the Instructions to Bidders.

In submitting this bid, Bidder certifies Bidder is qualified to do business in the State of Georgia as required by laws, rules, and regulations or, if allowed by statute, covenants to obtain such qualification prior to contract award.

Bidder accepts the terms and conditions of the Documents.

BID:

The undersigned proposes to supply, in all respects, sound and conformable with this bid document the goods for the amounts as shown on this Bid Form.

ADDENDA:

Bidder acknowledges receipt of the following Addenda:

Division 2

Bid Requirements

Section 4: Bid Form

WE BID AS FOLLOWS:

**Residual Biosolids Management -
Transportation and Disposal per wet
ton (for all three CCWA facilities).**

\$ _____ _____*

*** Per wet ton bid amount must not reflect the 5% bid discount offered by CCWA.**

To obtain the 5% beneficial reuse discount referred to on page 2-4.2 (Special Provisions), your company MUST be compliant with the EPA's 40 CFR Part 503 regulations.

Please check if your company meets this requirement:

If checked, bidders must submit product documentation including testing and reports to confirm compliance.

As per the description, general conditions of this bid. Work to be as directed by individual representing Clayton County Water Authority.

I have read and understand the scope of work, conditions, and requirements. I also understand, and have provided, all documentation required to be included in this Request for Bid. Omission of any part of the requested documentation may result in the bid being deemed unresponsive by the CCWA.

SUBMITTED BY:

(COMPANY NAME OF BIDDER)

If the Bidder is certified as a Small Local Business Enterprise (SLBE) with CCWA, the CCWA SLBE Certification number must be entered below, as well as the County where the business is located in.

CCWA SLBE Certification No. _____ County: _____

Bid Discount % (please check one): 10% 7.5% N/A (Not a SLBE)

Division 2

Bid Requirements

Section 4: Bid Form

Submitted by:

(COMPANY NAME OF BIDDER)

By: (OFFICER NAME)

(SIGNATURE)

(TITLE)

(DATE)

(COMPANY ADDRESS)

(CITY, STATE, ZIP CODE)

PHONE NUMBER: _____

EMAIL ADDRESS: _____

LICENSE NUMBER (If applicable): _____

DATE: _____

END OF SECTION

Division 2

Bid Requirements

Section 6: Bidder Qualification Information

COMPANY NAME OF BIDDER: _____

NUMBER OF YEARS IN BUSINESS _____

BUSINESS ADDRESS OF COMPANY: _____

TELEPHONE NUMBER: _____

POINT OF CONTACT NAME: _____

POINT OF CONTACT EMAIL ADDRESS: _____

COMPANY TAX ID NUMBER: _____

COMPANY WEBSITE: _____

ENTITY TYPE: Individual/Sole Proprietor Employee Owned Company
 Privately Held Corporation/LLC Partnership
 Publicly Owned Company Attorney
 Other (specify): _____

NAME OF PRINCIPAL OFFICERS: _____

Division 2

Bid Requirements

Section 6: Bidder Qualification Information

REFERENCES

The Contractor shall include a minimum of 3 references of similar work completed in the last 3 years (2 of which preferably from a municipal/county utility). All references shall include the name of a current contact and phone number.

Company/Government Entity Name: _____
Contact Name: _____
Contact Title: _____
Address: _____
Phone Number: _____

Company/Government Entity Name: _____
Contact Name: _____
Contact Title: _____
Address: _____
Phone Number: _____

Company/Government Entity Name: _____
Contact Name: _____
Contact Title: _____
Address: _____
Phone Number: _____

Division 2

Bid Requirements

Section 6: Bidder Qualification Information

QUESTIONNAIRE:

COMPANY NAME: _____

No. of Years in Business: _____ No. of Employees: _____

No. of Municipal Customers: _____ No. of Commercial Customers: _____

Are Your Employees Contracted? Yes No

Method of Transportation: _____

Name of Transportation Company: _____

Transportation Company Location: _____

1st Dump Trailer Tag #: _____ Dimension: _____ Load Capacity: _____

2nd Dump Trailer Tag #: _____ Dimension: _____ Load Capacity: _____

3rd Dump Trailer Tag #: _____ Dimension: _____ Load Capacity: _____

4th Dump Trailer Tag #: _____ Dimension: _____ Load Capacity: _____

Other Dump Trailer Tag #: _____ Dimension: _____ Load Capacity: _____

Please check the boxes if requirements will be met:

- ALL dump trailers must be able to stand on their own with full load.
- Waterproof trailer cover must be provided for Casey Pelletizing location.
- Minimum length Dump Trailer for this bid shall be thirty feet (30') long. Roll-off containers will not be allowed for this bid.

Method of Disposal: _____

Name of Disposal Company: _____

Disposal Company Location: _____

Solid Waste Permit Information: _____

END OF SECTION

Division 2

Bid Requirements

Section 7: Contractor Affidavit & Agreement

- A. Pursuant to the Georgia Security and Immigration Compliance Act of 2006, the Contractor understands and agrees that compliance with the requirements of O.C.G.A. § 13-10-91 and Georgia Department of Labor Rule 300-10-.02 are conditions of this Agreement. The Contractor further agrees that such compliance shall be attested by the Contractor through execution of the contractor affidavit required by Georgia Department of Labor Rule 300-10-1-.07, or a substantially similar contractor affidavit. The Contractor's fully executed affidavit is attached hereto as Exhibit ____ and is incorporated into this Agreement by reference herein.

- B. By initialing in the appropriate line below, the Contractor certifies that the following employee-number category as identified in O.C.G.A. § 13-10-91 is applicable to the Contractor:
 - 1. _____ 500 or more employees;
 - 2. _____ 100 or more employees;
 - 3. _____ Fewer than 100 employees.

- C. The Contractor understands and agrees that, in the event the Contractor employs or contracts with any subcontractor or subcontractors in connection with this Agreement, the Contractor shall:
 - 1. Secure from each such subcontractor an indication of the employee-number category as identified in O.C.G.A. § 13-10-91 that is applicable to the subcontractor;
 - 2. Secure from each such subcontractor an attestation of the subcontractor's compliance with O.C.G.A. § 13-10-91 and Georgia Department of Labor Rule 300-10-1-.02 by causing each such subcontractor to execute the subcontractor affidavit required by Georgia Department of Labor Rule 300-10-1-.08, or a substantially similar subcontractor affidavit. The Contractor further understands and agrees that the Contractor shall require the executed subcontractor affidavit to become a part of the agreement between the Contractor and each such subcontractor. The Contractor agrees to maintain records of each subcontractor attestation required hereunder for inspection by the Clayton County Water Authority at any time."

Contractor _____

Authorized Signature: _____

Name: _____

Title: _____

Date: _____

Division 2

Bid Requirements

Section 7: Contractor Affidavit & Agreement

CONTRACTOR AFFIDAVIT AND AGREEMENT

By executing this affidavit, the undersigned contractor verifies its compliance with [O.C.G.A. 13-10-91](#), stating affirmatively that the individual, firm, or corporation which is contracting with the Clayton County Water Authority has registered with, is participating in, uses, and will continue to use for the duration of the contract, the federal work authorization program - EEV/Basic Pilot Program operated by the U. S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA), commonly known as E-Verify, in accordance with the applicability provisions established in [O.C.G.A. 13-10-91](#).

The undersigned further agrees that, in connection with the physical performance of services pursuant to this contract with the Clayton County Water Authority, the contractor will only employ or contract with subcontractor(s), who can present a similar affidavit verifying the subcontractor's compliance with [O.C.G.A. 13-10-91](#). Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the Clayton County Water Authority within five days of the subcontractor(s) presenting such affidavit(s) to the contractor.

EEV / Basic Pilot Program* User Identification Number
Enter four to seven-digit numbers

BY: Authorized Officer or Agent
(Contractor Name)

Date

Title of Authorized Officer or Agent of Contractor

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME ON THIS

THE _____ DAY OF _____ 20____.

Notary Public

My Commission Expires

Division 2

Bid Requirements

Section 7: Contractor Affidavit & Agreement

SUBCONTRACTOR AFFIDAVIT AND AGREEMENT

By executing this affidavit, the undersigned subcontractor verifies its compliance with [O.C.G.A. 13-10-91](#), stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services under a contract with _____

_____ on behalf of the Clayton County Water Authority has registered with, is participating in, uses, and will continue to use for the duration of the contract the federal work authorization program - EEV/Basic Pilot Program operated by the U. S. Citizenship and Immigration Services Bureau of the U.S. Department of Homeland Security, in conjunction with the Social Security Administration (SSA), commonly known as E-Verify, in accordance with the applicability provisions and deadlines established in [O.C.G.A. 13-10-91](#).

The undersigned further agrees that, in connection with the physical performance of services pursuant to this contract with _____

_____ on behalf of the Clayton County Water Authority, the subcontractor will only employ or contract with sub-subcontractor(s), who can present a similar affidavit verifying the sub-subcontractor's compliance with [O.C.G.A. 13-10-91](#). The undersigned further agrees that the Subcontractor will maintain records of such compliance and provide a copy of each such verification to the Contractor within five days of the sub-subcontractor(s) presenting such affidavit(s) to the Sub-contractor.

EEV / Basic Pilot Program* User Identification Number

Enter four to seven-digit numbers

BY: Authorized Officer or Agent
(Subcontractor Name)

Date

Title of Authorized Officer or Agent of Subcontractor

Printed Name of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE _____ DAY OF _____
20____.

Notary Public

My Commission Expires

END OF SECTION

Division 2 **Bid Requirements**

Section 8: Small Local Business Enterprises (SLBE) - General Information

8.1 Program Overview

Clayton County Water Authority (CCWA) has implemented a Small Local Business Enterprise Program to promote full and open competition in all government procurement and purchasing. Bid discounts for the use of Small Local Business Enterprises (SLBE's) are set on a contract by contract basis for each specific prime contract with subcontracting possibilities. CCWA wants to ensure that Bidders are non-discriminatory in their process of selecting sub-contractors. CCWA also wants to encourage Bidders to utilize small, minority or woman-owned businesses whenever possible. All forms included in this solicitation must be completed for Bidder to be considered responsive.

SLBE means a locally-based small business operating inside or outside of Clayton County, which meets the following criteria:

- A) Independently owned and operated business concern whose average annual gross receipts for the previous three years must not exceed (1) Construction Firms – \$18,250,000; (2) Professional Services Firms – \$5,500,000; (3) Architectural Firms – \$3,750,000; (4) Engineering Firms – \$7,500,000, and (5) Goods and Services – less than 250 employees.
- B) Locally based, meaning located and operating in Clayton County or the ten (10) counties of Cherokee, Cobb, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Henry, Rockdale and Spalding for at least one year prior to submitting application for certification.

If a firm is locally-based in one of the counties mentioned above, is currently certified as a small business through Clayton County, the City of Atlanta, DeKalb County, or the Georgia Department of Transportation, and can provide evidence of its certification, the firm will be provisionally accepted as a SLBE, provided that they complete the official certification application for CCWA within two (2) years following the date of provisional certification. If a firm meets these qualifications, but is not currently certified as a small business, then the firm must complete an application for certification with CCWA no later than seven (7) business days following the deadline for bid submission.

SLBE's must perform a commercially useful function, which means performance of provision of real and actual services under the contract or subcontract with CCWA. Factors such as the nature and amount of the work subcontracted; whether the SLBE has the skill and expertise to perform the work for which it has been certified; whether the SLBE actually performs, manages or supervises the work; and whether the SLBE intends to purchase commodities and/or services

Division 2 **Bid Requirements**

Section 8: Small Local Business Enterprises (SLBE) - General Information

from a non-SLBE and simply resell them will be considered in determining if the SLBE is performing a commercially useful function.

Participation in the SLBE program is not a requirement to participate in contracting with CCWA. The use of an SLBE is a requirement when bid discounts are to be sought. The Bidder will be required to complete the required forms as outlined in the following section.

8.2 Overview of Bid Discount

Bid discounts are incentives that allow an original bid amount to be discounted for evaluation purposes in determining the lowest responsive, responsible bidder, while the original bid amount will be the basis for contract award.

Example: A \$100,000 bid with a 7.5% bid discount would be evaluated at \$92,500. However, \$100,000 would be paid to the successful bidder.

Bid Discounts will be applied to CCWA certified SLBE prime bidders only. *The use of certified SLBE sub-contractors will not establish eligibility to receive Bid Discounts.* Depending on the bidder's location, Bid Discounts will range between 7.5% and 10%.

The calculation of SLBE bid discounts shall be as follows:

There will be an applied tiered discount to bids based on what county the SLBE business is located.

- 10 percent for SLBE's in Clayton County.
 - 7.5 percent for SLBE's within the next surrounding 10 counties (Cherokee, Cobb, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Henry, Rockdale and Spalding).
- (1) Discounts are given to Bidders who are SLBE prime bidders only.
 - (2) In the event of a tie bid between a discounted bidder and a non-discounted bidder, the discounted bidder (SLBE) will be recommended for the contract.

By signing the bid, the bidder is certifying that he/she has complied with the requirements of this program. Please contact Contracts, Compliance and Risk Management at ccwa_slbe_program@ccwa.us for more information on CCWA's SLBE Program or visit our website at www.ccwa.us.

END OF SECTION

Division 3

Contract Forms

Section 1: Agreement Form

**STATE OF GEORGIA
COUNTY OF CLAYTON**

**AGREEMENT FOR ONGOING PROVISION
OF GOODS AND SERVICES**

This Agreement made and entered into this _____ day of _____, 2019, for **Residual Biosolids Management**, between the **CLAYTON COUNTY WATER AUTHORITY** (hereinafter "the Authority") and _____ (hereinafter "the Contractor"), witnesseth:

WHEREAS, the Authority is contracting with the Contractor for the provision of certain goods and services described below for the term specified herein;

NOW THEREFORE, the parties agree as follows:

1. **DESCRIPTION OF GOODS AND SERVICES**: The Contractor shall provide the goods and services to the Authority in such quantities as the Authority requires for **Residual Biosolids Management**, as described in the Request for Bid dated May 2021.

GOODS:

The Contractor must furnish any and all items necessary including but not limited to labor, tools, materials, equipment and machinery necessary to fully provide the services as indicated by this document. This includes furnishing dump trailers for each CCWA facility when requested by the Department Director and/or Plant Manager.

SERVICES:

The scope of work shall consist of transporting and disposing of dewatered sludge produced at the Clayton County Water Authority's Northeast WRF, Casey WRRF, and Shoal Creek WRF, via dump trailers with a capacity not to exceed 30 tons per load. The trucks will transport the wastewater residuals to a mutually agreed upon disposal site. Trailers shall be clean before being returned to Clayton County Water Authority sites.

QUANTITIES AND SCHEDULE:

The estimated annual quantity is 6000 - 7000 wet tons. The frequency of transporting from the Northeast WRF is estimated to be up to one (1) truckload per day for five (5) days per week. An increased frequency to two (2) truckloads per day and/or six (6) days per week may be required if

Division 3

Contract Forms

Section 1: Agreement Form

deemed necessary by the Department Director or Plant Manager. The frequency of transporting from Shoal Creek WRF is estimated to be up to one (1) truckload per day for four (4) days per week. An increase in frequency to (1) truckload per day for five (5) days per week may be required if deemed necessary by the Department Director or Plant Manager. The frequency of transporting from Casey WRRF is estimated to be one (1) truckload per day for up to seven (7) days per week. An increase in frequency to (2) truckload per day for up to (7) days per week. Casey WRRF currently operates a Pelletizing Facility and will not require services unless deemed necessary by the Department Director or Plant Manager. The Clayton County Water Authority reserves the right to purchase more or less based on actual need.

2. **COSTS**: Upon each transporting and disposal, the Authority shall pay and the Contractor shall receive the prices stipulated in the Bid hereto attached and dated _____ as full compensation for everything furnished by the Contractor relative to the above described goods and services.

The Contractor must submit a completed and signed Form SLBE-4 (Monthly SLBE Participation Report) to the Authority with each invoice. The Authority shall pay the Contractor net 30 days upon receipt of the invoice and the completed SLBE-4 Form, and upon acceptance of the work in accordance with the specifications.

The Authority will accept invoices on a once per week basis. Payments will be made via US Mail.

3. **TERM OF AGREEMENT**: The term of this Agreement shall commence on or about the **1st day of September 2021**. The Agreement shall remain in effect until **August 31, 2022**.
4. **RENEWAL PROVISIONS**: The contract may be extended for a second and/or third year by mutual written consent from both parties with no changes is contract terms, conditions, and prices.
5. **INITIATION OF INDIVIDUAL PROJECTS**: Each individual project shall begin with a Purchase Order (a "PO"), a blank copy of which is attached to this Agreement and incorporated into the terms hereby agreed to. The Contractor agrees to the terms and conditions contained in the PO; however, in the event of a conflict between the terms of this Agreement and the terms of the PO, the terms of this Agreement shall control.
6. **WARRANTY ON SERVICES RENDERED**: The Contractor warrants that its

Division 3

Contract Forms

Section 1: Agreement Form

workmanship will conform to all specifications and will perform as specified. Upon receipt of written notice of a defect in workmanship, the Contractor shall repair the defect in a timely manner at no expense to the Authority.

7. **WARRANTY ON GOODS PROVIDED:** The Contractor warrants its goods for a period of two (2) years from the date of final acceptance. Furthermore, the Contractor warrants that goods ordered to specifications will conform thereto and to any drawings, samples, or other description furnished or adopted by the Authority, and will be fit and sufficient for the purpose intended; and that all goods are merchantable, of good material and workmanship, and free from defect. Such warranties, together with the Contractor's service warranties and guarantees, if any shall survive inspection, test, acceptance of, and payment for the goods and shall run to the Authority, its successors, assigns, customers at any tier, and ultimate user and joint users. Notices of any defect or nonconformity shall be given by the Authority to the Contractor within fifteen (15) months after acceptance by ultimate user; provided however that in the event the goods are designed by the Contractor, notice must be given within three (3) years after acceptance by ultimate user. The rights and remedies of the Authority concerning latent defects shall exist indefinitely and shall not be affected in clause. The Authority may, at its option, and in addition to other remedies available at law, either (i) return for credit, (ii) require prompt correction or replacement of the defective or nonconforming goods, or (iii) have the defective items corrected or replaced at the Contractor's expense and deduct the cost thereof from any monies due the Contractor. The return to the Contractor of any defective or non-conforming goods and delivery to the Authority of any corrected or replaced goods shall be at the Contractor's expense. Goods required to be corrected or replaced shall be at the Contractor's expense. Goods required to be corrected or replaced shall be subject to the provision of this paragraph and the paragraph of this Agreement entitled "inspection" on the same manner and to the same extent as goods originally delivered under this Agreement. In addition to correcting or replacing any defective or nonconforming goods, the Contractor shall also reimburse the Authority for all costs and expenses incurred by the Authority in connection with inspection and discovery of the defects, identifying and correcting the cause of such defects and all other activities reasonably undertaken by the Authority to obtain conforming goods or attempting to obtain from the ultimate user a waiver to permit the defective goods to be used with all or part of the defective conditions.

Division 3

Contract Forms

Section 1: Agreement Form

8. **INSPECTION**: The Authority shall have the right to inspect the goods supplied hereunder at any time during the manufacture or fabrication thereof at the Contractor's facilities or elsewhere. Such inspection may include, without limitation, raw materials, components, work in process, and completed products as well as drawings, specifications, and released data. Final inspection and acceptance shall be after delivery to the delivery point designated by the Authority. If any inspection or test is made by the Authority at the Contractor's facility or elsewhere, the Contractor shall provide reasonable facilities and assistance for the inspection personnel. The Authority may reject all goods supplied hereunder, which are found to be defective. Goods so rejected may be returned to the Contractor at the Contractor's expense. No inspection, examination or test, regardless of extensiveness or type, and no approval give in connection with any such inspection, examination or test, whether under this Agreement or another contract for the same or similar goods, shall relieve it, of any obligation to comply fully with all requirements of this Agreement, including the obligation to produce goods that conform to all requirements of the drawings, specifications and any other Contract Documents. At the Authority's request, the Contractor shall repair or replace defective goods at the Contractor's expense. Failure to inspect goods, failure to discover defects in goods or payment for goods shall not constitute acceptance or limit any of the Authority's rights, including without limitation those under the WARRANTY provisions of this Agreement. In the event inspection reveals a defect or defects and schedule urgency requires that the defect or defects be corrected by the Authority to support production, all cost of such correction, including without limitation installation and removal, will be charged to the Contractor; such charges will also include time and material and appropriate indirect and overhead expenses. The Contractor shall maintain in inspection system acceptable to the Authority covering the goods furnished hereunder.
9. **CONTRACTOR'S AFFIDAVITS**: The Contractor shall issue a "Standard Contractor's Affidavit Interim Waiver and Release Upon Payment" and a "Standard Contractor's Affidavit Unconditional Waiver and Release upon Final Payment" provided by the Authority before receiving any interim or final payment for any services performed.
10. **ASSIGNMENT AND SUBCONTRACTING**: The Contractor shall not assign this Agreement or any portion of this Agreement, nor shall the Contractor sub contract for goods or completed or substantially completed services

Division 3

Contract Forms

Section 1: Agreement Form

purchased hereunder without the prior express written consent of the Authority. No assignment or subcontract by the Contractor, including any assignment or subcontract to which the Authority consents, shall in any way relieve the Contractor from complete and punctual performance of this Agreement, including without limitation all of the Contractor's obligations under the WARRANTY provisions of this Agreement.

11. **THE AUTHORITY'S ASSISTANCE AND COOPERATION:** During the Contractor's performance of this Agreement, the Authority may, but has no obligation to, provide assistance to, or cooperate with, the Contractor in activities that facilitate the proper performance and completion of this Agreement by the Contractor. Such assistance and cooperation may include without limitation: (i) providing engineering or other analysis or advice on correcting problems; (ii) refraining from strict enforcement of time schedule requirements under this Agreement; (iii) permitting use of test materials or documentation not performed or produced under this Agreement. Such assistance or cooperation by the Authority shall not be construed, and the Contractor agrees that it will not claim that any such assistance or cooperation operates, to relieve the Contractor from complete, proper and punctual performance of all the Contractor's obligations under this Agreement.
12. **WORK ON THE AUTHORITY'S DESIGNATED PREMISES:** In the event that the Contractor, the Contractor's employees or agents or the Contractor's subcontractors enter the Authority's designated premises for any reason in connection with this Agreement, the Contractor and such other parties shall observe all security requirements and all plant safety, plant protection, and traffic regulations. The Contractor shall defend, indemnify, and hold the Authority harmless from all claims, actions, demands, loss, and causes of action, arising from injury, including death, to any person, or damage to any property, when such injury or damage results in whole or in part from the acts or omissions of the Contractor, the Contractor's employees or agents or the Contractor's subcontractor, save and except damage caused by the sole negligence of the Authority. The Contractor, and any subcontractors used by the Contractor in connection with this Agreement, shall carry Workmen's Compensation and Employees' Liability Insurance to cover the Contractor's and any subcontractor's legal liability on account of accidents to their employees. The Contractor and any subcontractor shall carry adequate Comprehensive General Liability and adequate Comprehensive Automobile Liability Insurance covering

Division 3

Contract Forms

Section 1: Agreement Form

accidents to their employees. The Contractor and any subcontractor shall carry adequate Comprehensive General Liability and adequate Comprehensive Automobile Liability Insurance covering legal liability of the Contractor and any subcontractor on account of accidents arising out of the operations of the Contractor or any subcontractor and resulting in bodily injury, including death, being sustained by any person or persons, or in any damage to property. At the Authority's request, the Contractor shall furnish to the Authority certificates from the Contractor's insurers showing such coverage in effect and agreeing to give the Authority thirty (30) days prior written notice of cancellation of the coverage.

13. **RISK MANAGEMENT REQUIREMENTS:** The Contractor shall abide by the Authority's applicable Risk Management Requirements, attached to this Agreement as Exhibit A and hereby incorporated into this Agreement.
14. **TERMINATION FOR DEFAULT:**
 - (a) The Authority may, subject to the provisions of subparagraph (c) below, by written notice of default to the Contractor, terminate the whole or any part of this Agreement in any one of the following circumstances; (i) if the Contractor fails to perform this Agreement within the time specified herein or any extension thereof; or (ii) if the Contractor fails to perform any of the other provisions of this Agreement, or so fails to make progress as to endanger performance of this Agreement in accordance with its terms, and does not cure such failure within a period of ten (10) days or longer period (as the Authority may authorize in writing) after receipt of notice from the Authority specifying such failure.
 - (b) In the event the Authority terminates this Agreement in whole or in part as provided in subparagraph (a) above, the Authority may procure, upon such terms and in such manner as the Authority may deem appropriate, services, similar to those so terminated, and the Contractor shall be liable to the Authority for any Excess costs for the same, including without limitation all cost and expenses of the type specified in the "WARRANTY" paragraph of this Agreement; provided, that the Contractor shall continue the performance of this Agreement to the extent not terminated hereunder.
 - (c) Except with regard to defaults of subcontractors, the Contractor shall not be liable for any excess costs if the failure to perform this Agreement arises out of causes beyond the control and without the fault of negligence of the Contractor such causes may include, but are

Division 3

Contract Forms

Section 1: Agreement Form

not limited to, acts of God, or of the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, flood, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather, but in every case the failure to perform must be beyond the control and without the fault or negligence of the Contractor. If the failure to perform is caused by the default of a subcontractor, and if such default arises out of causes beyond the control of both the Contractor and the subcontractor, and without the fault of negligence of either of them, the Contractor shall not be liable for any excess costs for failure to perform, unless the services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the Contractor to meet the required delivery schedule. The term "subcontractor" shall mean subcontractor at any tier.

- (d) If, after notice of termination of this Agreement under the provisions of this paragraph, it is determined for any reason that the Contractor was not in default under the provisions above or that the default was excusable under the provisions of this paragraph, the rights and obligations of the parties shall be the same as if the notice of termination has been issued pursuant to the "Termination for Convenience" paragraph of this Agreement.
 - (e) The rights and remedies of the Authority provided in this paragraph shall not be exclusive and are in addition to any other rights and remedies provided by law or under this Agreement.
15. **TERMINATION FOR CONVENIENCE**: The Authority may at any time by written notice terminate all or any part of this Agreement for the Authority's convenience. If this Agreement is terminated, in whole or in part, for the Authority's convenience, the Contractor shall be paid an amount, to be mutually agreed upon, which shall be adequate to cover the actual and reasonable cost paid by the Contractor for the actual goods and labor reasonably used by the Contractor to perform the work under this Agreement to the effective date of termination, plus a reasonable profit thereon; provided that no amount shall be paid to the Contractor for (i) any anticipatory profits related to work under this Agreement not yet performed, or (ii) costs incurred due to the Contractor's failure to terminate work as ordered on the effective date of termination. In no event shall the total amount paid under the provisions of this paragraph exceed the prices set forth in this Agreement for the work terminated.

Division 3

Contract Forms

Section 1: Agreement Form

16. **DISPUTES:** Pending resolution of any dispute hereunder, the Contractor shall proceed diligently with the performance of work in accordance with the Authority's direction.
17. **NOTICES:** All notices required or permitted to be given hereunder shall be deemed to be properly given if delivered in writing personally or sent by United States certified or registered mail addressed to the Contractor or the Authority, as the case may be, with postage thereon fully prepaid. The effective time shall be at the time of mailing.
18. **ATTORNEYS' FEES:** The Contractor shall pay reasonable attorneys' fees to the Authority should the Authority be required to incur attorneys' fees in enforcing the provisions of this Agreement or in the collection of any monies herein required to be paid by the Contractor to the Authority.
19. **COUNTERPARTS AND ELECTRONIC SIGNATURES:** This Agreement may be executed in one or more counterparts, each of which will be deemed to be an original, but all of which together will constitute one and the same instrument. An executed signature page delivered via facsimile transmission or electronic signature shall be deemed as effective as an original executed signature page.

[SIGNATURES ON NEXT PAGE]

Division 3

Contract Forms

Section 1: Agreement Form

IN WITNESS WHEREOF this _____ day of _____, 20_____,
said parties have hereunto set their seals the day and year above first written.

Executed on behalf of:

CLAYTON COUNTY WATER AUTHORITY

CONTRACTOR

By: _____
Name: _____
Title: General Manager

By: _____
Name: _____
Title: _____

Attest: _____
Name: _____
Title: _____
Date: _____

Attest: _____
Name: _____
Title: _____
Date: _____

[Corporate Seal]

[Corporate Seal]

Division 3

Contract Forms

Section 1: Agreement Form

EXHIBIT A

RISK MANAGEMENT REQUIREMENTS

The Contractor will provide minimum insurance coverage and limits as per the following: The Contractor will file with the Authority Certificates of Insurance, certifying the required insurance coverages and stating that each policy has been endorsed to provide thirty (30) day notice to the Authority in the event that coverage is cancelled, non-renewed or the types of coverage or limits of liability are reduced below those required. All bonds and insurance coverage must be placed with an insurance company approved by Authority Management, admitted to do business in the State of Georgia, and rated Secure (“B+” or better) by A.M. Best Company in the latest edition of Property and Casualty Ratings, or rated by Standard & Poors Insurance Ratings, latest edition as Secure (“BBB” or better). Worker’s Compensation self-insurance for individual Contractors must be approved by the Worker’s Compensation Board, State of Georgia and/or Self-Insurance pools approved by the Insurance Commissioner, State of Georgia.

CONTRACTS FOR UP TO \$50,000

Worker’s Compensation – Worker’s Compensation coverage on a statutory basis for the State of Georgia with an Employer’s Liability limit of \$100,000 each Accident, Disease \$100,000 each employee, \$500,000 Disease policy limit.

Automobile Liability – Automobile liability coverage for owned, hired and non-owned vehicles in the amount of \$500,000 combined single limit.

Commercial General Liability – Coverage to be provided on “occurrence” not “claims made” basis. The coverage is to include Contractual liability, Per Project Limit of Liability, losses caused by Explosion, Collapse and Underground (“xcu”) perils, the “Clayton County Water Authority” is to be added as an Additional Insured and Products and Completed Operations coverage is to be maintained for three (3) years following completion of work.

CONTRACTS FOR MORE THAN \$50,000

Worker’s Compensation – Worker’s Compensation coverage on a statutory basis for the State of Georgia with an Employer’s Liability limit of \$1,000,000. The increased Employer’s Liability limit may be provided by an Umbrella or Excess Liability policy.

Automobile Liability - Automobile liability coverage for owned, hired and non-owned vehicles in the amount of \$1,000,000 combined single limit.

Commercial General Liability – Coverage to be provided on “occurrence” not “claims made” basis. The coverage is to include Contractual liability, Per Project Limit of Liability, losses caused by Explosion, Collapse and Underground (“xcu”) perils, the “Clayton County Water Authority” is to be added as an Additional Insured and Products and Completed Operations coverage is to be maintained for three (3) years following completion of work.

Division 3

Contract Forms

Section 1: Agreement Form

**EXHIBIT A
RISK MANAGEMENT REQUIREMENTS (Cont'd)**

CONTRACTS FOR UP TO \$50,000

CONTRACTS FOR MORE THAN \$50,000

LIMITS OF LIABILITY:

\$1,000,000	Per Occurrence
\$1,000,000	Personal and Advertising
\$50,000	Fire Damage*
\$5,000	Medical Payments*
\$1,000,000	General Aggregate
\$1,000,000	Products/Completed Operations per Occurrence and Aggregate

**These are automatic minimums*

Owner's Protective Liability – The Authority's Management may, in its discretion, require Owner's Protective Liability in some situations.

Umbrella and/or Excess Liability – The umbrella or Excess Liability Policy may be used to combine with underlying policies to obtain the limits required. The Management of the Authority may elect to require higher limits.

Owner's Protective Liability – The Authority's Management may, in its discretion, require Owner's Protective Liability in some situations.

END OF SECTION

Division 3

Contract Forms

Section 4: Non-Collusion Certificate

STATE OF _____, COUNTY OF _____

Personally appeared before the undersigned officer duly authorized by law to administer oaths

who, after being first duly sworn, depose and say that they are all the officers, agents, persons or employees who have acted for or represented _____

_____ in procuring the Contract with the Clayton County Water Authority on the following Project: **Residual Biosolids Management**, and that said _____

_____ has not by (himself, themselves) or through any persons, officers, agents or employees prevented or attempted to prevent by any means whatsoever competition in such bidding; or by any means whatsoever prevented or endeavored to prevent anyone from making a proposal therefore, or induced or attempted to induce another to withdraw a bid for said work.

ATTEST:

By:

By: _____

By: _____

Title: _____

Title: _____

Sworn to and subscribed before me this _____ day of _____ 20__.

Notary Public: _____ My Commission expires: _____

END OF SECTION

Division 4

General Requirements

Section 1: Specifications

4.1 DESCRIPTION OF WORK

The Clayton County Water Authority will dewater the wastewater sludge at its Northeast, Casey, and Shoal Creek Water Reclamation Facilities to approximately 16-35% solids. Solids from all three facilities will require further processing to be land applied. The successfully bidder will remove and dispose the dewatered solids from all plants via dump trailers with a capacity not to exceed 30 tons per load. Shoal Creek and Northeast WRFs have two (2) loading bays, while Casey Pelletizing site has only one (1) loading conveyor. All three sites have truck scales. The trucks will transport the wastewater residuals to a mutually agreed upon disposal site.

Trailers shall be clean before being returned to Clayton County Water Authority sites. Trailers must be left on site for loading by a screw conveyor system.

The contractor shall agree to provide any necessary labor and equipment for removal and transporting. This includes furnishing dump trailers for each CCWA facility when requested by the Department Director and/or Plant Manager. The estimated annual quantity is 6000 - 7000 wet tons. The frequency of transporting from the Northeast WRF is estimated to be up to one (1) truckload per day for five (5) days per week. An increased frequency to two (2) truckloads per day and/or six (6) days per week may be required if deemed necessary by the Department Director or Plant Manager. The frequency of transporting from Shoal Creek WRF is estimated to be up to one (1) truckload per day for four (4) days per week. An increase in frequency to one (1) truckload per day for five (5) days per week may be required if deemed necessary by the Department Director or Plant Manager. The frequency of transporting from Casey WRF is estimated to be one (1) truckload per day for up to seven (7) days per week. An increase in frequency to (2) truckload per day for up to (7) days per week may be required if deemed necessary by the Department Director or Plant Manager. Casey WRF currently operates a Pelletizing Facility and will not require services unless deemed necessary by the Department Director or Plant Manager. The Clayton County Water Authority reserves the right to purchase more or less based on actual need.

4.2 SCOPE OF WORK

The scope of work shall consist the transporting and disposing of dewatered sludge produced at the Clayton County Water Authority's Northeast WRF at 6900 Old Macon Highway, Rex, Georgia, 30281, transporting and disposing of dewatered sludge produced at the Clayton County Water Authority's Casey WRF

Division 4

General Requirements

Section 1: Specifications

at 8890 Roberts Road, Jonesboro, Georgia, 30238 and transporting and disposing of dewatered sludge produced at the Clayton County Water Authority's Shoal Creek WRF located at 301 Hampton Road, Hampton, Georgia, 30228.

The contractor shall not make any changes from these specifications without written permission from the Director of Water Reclamation or their authorized designated representative.

The work shall be under the direct control and supervision of the Water Reclamation Department of the Clayton County Water Authority with regard to quantities, work quality, method of operation, scheduling and furnishings of stated materials or services.

Change orders beyond the original term shall be mutually agreed and based upon written authorization from Clayton County Water Authority.

The contractor shall correct defects in any work performed before the completed project will be eligible for payment. Defects shall include, but are not limited to: lack of signed manifests, improper disposal methods or non-approved disposal site. Payment terms shall be net 30 days.

The contractor's work shall fully conform to any applicable O.S.H.A. guidelines and the Clayton County Water Authority Safety Program. The safety of the traveling public shall be of paramount importance during transportation.

The Director of Water Reclamation of the Clayton County Water Authority on an annual basis will offer this work to the successful Bidder. If the Contractor awarded the contract rejects the work or cannot respond to the scheduling requirements (to be identified by the CCWA Director of Water Reclamation at the time of the offer) of an offered project, the Water Authority will then offer the work to the next qualified lowest bidder. The contractor shall understand that the offered work is scheduled and the work must be performed at the scheduled time. Failure to respond to work requests at the appropriate scheduled time may result in the termination of the contract with the contractor.

Work shall be authorized by the standard Clayton County Water Authority purchase order system, referencing the estimated quantities, prices per transported load and manifest number.

END OF SECTION

ATTACHMENT A

March 05, 2021

Jennifer Brandon
Clayton Co Water Authority
688 Flint River Road
Jonesboro, GA 30238

RE: Project: Shoal Creek Sludge
Pace Project No.: 92523530

Dear Jennifer Brandon:

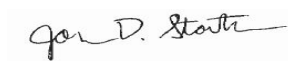
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John Stanton
john.stanton@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Van Beaty, Clayton Co Water Authority
Tony Somerville, Clayton Co Water Authority



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Shoal Creek Sludge

Pace Project No.: 92523530

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Shoal Creek Sludge

Pace Project No.: 92523530

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523530001	Shoal Creek Sludge Cake	9071B	WAM	1	PASI-C
		EPA 6010D	DRB, KH	8	PASI-GA
		EPA 6010D	DRB	7	PASI-GA
		EPA 8270E	PKS	18	PASI-C
		EPA 8260D	SAS	14	PASI-C
		SW-846	KDF	1	PASI-C
		EPA 9095B	SMK	1	PASI-A
		EPA 350.1 Rev 2.0 1993 Mod.	KDF1	1	PASI-A
		EPA 353.2 Rev 2.0 1993	CJL	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Shoal Creek Sludge
Pace Project No.: 92523530

Sample: Shoal Creek Sludge Cake Lab ID: 92523530001 Collected: 02/23/21 08:32 Received: 02/23/21 11:58 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9071 SGT-HEM, TPH								
Analytical Method: 9071B Preparation Method: 9071B Pace Analytical Services - Charlotte								
Total Petroleum Hydrocarbons	ND	mg/kg	566	1	03/04/21 11:45	03/04/21 14:16		N2
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/kg	5.9	1	03/01/21 14:42	03/02/21 19:54	7440-38-2	
Barium	282	mg/kg	2.0	1	03/01/21 14:42	03/02/21 00:51	7440-39-3	
Cadmium	ND	mg/kg	2.0	1	03/01/21 14:42	03/02/21 00:51	7440-43-9	
Chromium	13.7	mg/kg	2.0	1	03/01/21 14:42	03/02/21 00:51	7440-47-3	
Lead	6.6	mg/kg	4.9	1	03/01/21 14:42	03/02/21 19:54	7439-92-1	
Phosphorus	33800	mg/kg	3930	100	03/01/21 14:42	03/02/21 19:58	7723-14-0	
Selenium	ND	mg/kg	7.9	1	03/01/21 14:42	03/02/21 00:51	7782-49-2	
Silver	ND	mg/kg	2.0	1	03/01/21 14:42	03/02/21 00:51	7440-22-4	
6010D ATL ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 02/25/21 15:30 Initial pH: 8.89; Final pH: 6.05 Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.30	1	02/26/21 11:51	02/26/21 20:40	7440-38-2	
Barium	ND	mg/L	0.50	1	02/26/21 11:51	02/26/21 20:40	7440-39-3	
Cadmium	ND	mg/L	0.10	1	02/26/21 11:51	02/26/21 20:40	7440-43-9	
Chromium	ND	mg/L	0.10	1	02/26/21 11:51	02/26/21 20:40	7440-47-3	
Lead	ND	mg/L	0.25	1	02/26/21 11:51	02/26/21 20:40	7439-92-1	
Selenium	ND	mg/L	0.40	1	02/26/21 11:51	02/26/21 20:40	7782-49-2	
Silver	ND	mg/L	0.10	1	02/26/21 11:51	02/26/21 20:40	7440-22-4	
8270E TCLP RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C Leachate Method/Date: EPA 1311; 02/24/21 15:14 Initial pH: 5.38; Final pH: 5 Pace Analytical Services - Charlotte								
1,4-Dichlorobenzene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	87-68-3	
Hexachlorobenzene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	118-74-1	
Hexachloroethane	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	231	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	15831-10-4	
Nitrobenzene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	98-95-3	
Pentachlorophenol	ND	ug/L	100	1	02/25/21 14:44	02/26/21 14:07	87-86-5	
Pyridine	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:07	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	79	%	10-144	1	02/25/21 14:44	02/26/21 14:07	4165-60-0	
2-Fluorobiphenyl (S)	74	%	10-130	1	02/25/21 14:44	02/26/21 14:07	321-60-8	
Terphenyl-d14 (S)	137	%	34-163	1	02/25/21 14:44	02/26/21 14:07	1718-51-0	
Phenol-d6 (S)	43	%	10-130	1	02/25/21 14:44	02/26/21 14:07	13127-88-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Shoal Creek Sludge
Pace Project No.: 92523530

Sample: Shoal Creek Sludge Cake **Lab ID: 92523530001** Collected: 02/23/21 08:32 Received: 02/23/21 11:58 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	----	----------	----------	---------	------

8270E TCLP RVE

Analytical Method: EPA 8270E Preparation Method: EPA 3510C
Leachate Method/Date: EPA 1311; 02/24/21 15:14 Initial pH: 5.38; Final pH: 5
Pace Analytical Services - Charlotte

Surrogates

2-Fluorophenol (S)	56	%	10-130	1	02/25/21 14:44	02/26/21 14:07	367-12-4	
2,4,6-Tribromophenol (S)	89	%	10-144	1	02/25/21 14:44	02/26/21 14:07	118-79-6	

8260D MSV TCLP

Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 03/01/21 13:34
Pace Analytical Services - Charlotte

Benzene	ND	ug/L	100	20		03/02/21 12:18	71-43-2	
2-Butanone (MEK)	ND	ug/L	200	20		03/02/21 12:18	78-93-3	
Carbon tetrachloride	ND	ug/L	100	20		03/02/21 12:18	56-23-5	
Chlorobenzene	ND	ug/L	100	20		03/02/21 12:18	108-90-7	
Chloroform	ND	ug/L	100	20		03/02/21 12:18	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	100	20		03/02/21 12:18	106-46-7	
1,2-Dichloroethane	ND	ug/L	100	20		03/02/21 12:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	20		03/02/21 12:18	75-35-4	
Tetrachloroethene	ND	ug/L	100	20		03/02/21 12:18	127-18-4	
Trichloroethene	ND	ug/L	100	20		03/02/21 12:18	79-01-6	
Vinyl chloride	ND	ug/L	100	20		03/02/21 12:18	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%	70-130	20		03/02/21 12:18	17060-07-0	
Toluene-d8 (S)	111	%	67-135	20		03/02/21 12:18	2037-26-5	
4-Bromofluorobenzene (S)	103	%	70-130	20		03/02/21 12:18	460-00-4	

Percent Moisture

Analytical Method: SW-846
Pace Analytical Services - Charlotte

Percent Moisture	87.6	%	0.10	1		02/24/21 17:12		N2
------------------	-------------	---	------	---	--	----------------	--	----

9095 Paint Filter Liquid Test

Analytical Method: EPA 9095B
Pace Analytical Services - Asheville

Free Liquids	Pass		1.0	1		03/02/21 11:47		T3
--------------	-------------	--	-----	---	--	----------------	--	----

350.1 Ammonia

Analytical Method: EPA 350.1 Rev 2.0 1993 Mod. Preparation Method: EPA 350.1 Rev 2.0 1993 Mod.
Pace Analytical Services - Asheville

Nitrogen, Ammonia	4650	mg/kg	70.7	1	02/24/21 10:22	02/24/21 14:54	7664-41-7	
-------------------	-------------	-------	------	---	----------------	----------------	-----------	--

353.2 Nitrogen, NO2/NO3

Analytical Method: EPA 353.2 Rev 2.0 1993 Preparation Method: EPA 353.2 Rev 2.0 1993
Pace Analytical Services - Asheville

Nitrogen, NO2 plus NO3	ND	mg/kg	30.4	1	02/23/21 22:14	02/24/21 01:23		
Nitrogen, Nitrate	ND	mg/kg	30.4	1	02/23/21 22:14	02/24/21 01:23	14797-55-8	
Nitrogen, Nitrite	ND	mg/kg	30.4	1	02/23/21 22:14	02/24/21 01:23	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge

Pace Project No.: 92523530

QC Batch: 604217

Analysis Method: 9071B

QC Batch Method: 9071B

Analysis Description: 9071B SGT-HEM, TPH Gravimetric

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523530001

METHOD BLANK: 3183111

Matrix: Solid

Associated Lab Samples: 92523530001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	68.9	03/04/21 14:16	N2

LABORATORY CONTROL SAMPLE: 3183112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	667	570	86	78-114	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183113

3183114

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result	% Rec	Result	% Rec	Result			
Total Petroleum Hydrocarbons	mg/kg	477	3230	3310	1600	2220	35	53	78-114	32	M1,N2,R1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge
Pace Project No.: 92523530

QC Batch: 603326 Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92523530001

METHOD BLANK: 3178799 Matrix: Solid
Associated Lab Samples: 92523530001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	3.0	03/02/21 19:24	
Barium	mg/kg	ND	1.0	03/02/21 00:36	
Cadmium	mg/kg	ND	1.0	03/02/21 00:36	
Chromium	mg/kg	ND	1.0	03/02/21 00:36	
Lead	mg/kg	ND	2.5	03/02/21 19:24	
Phosphorus	mg/kg	ND	20.0	03/02/21 00:36	
Selenium	mg/kg	ND	4.0	03/02/21 00:36	
Silver	mg/kg	ND	1.0	03/02/21 00:36	

LABORATORY CONTROL SAMPLE: 3178800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	94.3	93.0	99	80-120	
Barium	mg/kg	94.3	97.2	103	80-120	
Cadmium	mg/kg	94.3	93.6	99	80-120	
Chromium	mg/kg	94.3	96.9	103	80-120	
Lead	mg/kg	94.3	94.8	101	80-120	
Phosphorus	mg/kg	94.3	95.1	101	80-120	
Selenium	mg/kg	94.3	92.1	98	80-120	
Silver	mg/kg	94.3	90.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3178801 3178803

Parameter	Units	92524325001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Arsenic	mg/kg	7.3	121	117	119	121	92	97	75-125	1					
Barium	mg/kg	300	121	117	444	456	119	134	75-125	3	M1				
Cadmium	mg/kg	ND	121	117	117	116	97	99	75-125	1					
Chromium	mg/kg	19.3	121	117	136	134	97	99	75-125	1					
Lead	mg/kg	ND	121	117	139	142	112	119	75-125	2					
Phosphorus	mg/kg	305	121	117	393	462	72	135	75-125	16	M1				
Selenium	mg/kg	ND	121	117	112	114	91	97	75-125	3					
Silver	mg/kg	ND	121	117	115	113	92	94	75-125	2					

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge
Pace Project No.: 92523530

QC Batch: 602906 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL TCLP
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92523530001

METHOD BLANK: 3173475 Matrix: Water
Associated Lab Samples: 92523530001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.30	02/26/21 19:51	
Barium	mg/L	ND	0.50	02/26/21 19:51	
Cadmium	mg/L	ND	0.10	02/26/21 19:51	
Chromium	mg/L	ND	0.10	02/26/21 19:51	
Lead	mg/L	ND	0.25	02/26/21 19:51	
Selenium	mg/L	ND	0.40	02/26/21 19:51	
Silver	mg/L	ND	0.10	02/26/21 19:51	

LABORATORY CONTROL SAMPLE: 3176674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	10	9.3	93	80-120	
Barium	mg/L	10	9.2	92	80-120	
Cadmium	mg/L	10	9.3	93	80-120	
Chromium	mg/L	10	9.5	95	80-120	
Lead	mg/L	10	9.6	96	80-120	
Selenium	mg/L	10	10.2	102	80-120	
Silver	mg/L	10	9.3	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176675 3176676

Parameter	Units	92523436001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Arsenic	mg/L	ND	10	10	10.5	10.2	105	102	75-125	3				
Barium	mg/L	ND	10	10	9.7	9.7	97	97	75-125	0				
Cadmium	mg/L	ND	10	10	10.1	10.0	101	100	75-125	0				
Chromium	mg/L	ND	10	10	9.7	9.8	97	97	75-125	1				
Lead	mg/L	ND	10	10	9.7	9.8	97	98	75-125	1				
Selenium	mg/L	ND	10	10	10.7	10.4	106	102	75-125	3				
Silver	mg/L	ND	10	10	9.9	10.0	99	100	75-125	1				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge
Pace Project No.: 92523530

QC Batch: 603513	Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D	Analysis Description: 8260D MSV TCLP
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523530001

METHOD BLANK: 3179462 Matrix: Water

Associated Lab Samples: 92523530001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	03/02/21 11:08	
1,2-Dichloroethane	ug/L	ND	5.0	03/02/21 11:08	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/02/21 11:08	
2-Butanone (MEK)	ug/L	ND	10.0	03/02/21 11:08	
Benzene	ug/L	ND	5.0	03/02/21 11:08	
Carbon tetrachloride	ug/L	ND	5.0	03/02/21 11:08	
Chlorobenzene	ug/L	ND	5.0	03/02/21 11:08	
Chloroform	ug/L	ND	5.0	03/02/21 11:08	
Tetrachloroethene	ug/L	ND	5.0	03/02/21 11:08	
Trichloroethene	ug/L	ND	5.0	03/02/21 11:08	
Vinyl chloride	ug/L	ND	5.0	03/02/21 11:08	
1,2-Dichloroethane-d4 (S)	%	95	70-130	03/02/21 11:08	
4-Bromofluorobenzene (S)	%	101	70-130	03/02/21 11:08	
Toluene-d8 (S)	%	107	67-135	03/02/21 11:08	

LABORATORY CONTROL SAMPLE: 3179461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	54.3	109	70-132	
1,2-Dichloroethane	ug/L	50	49.9	100	70-130	
1,4-Dichlorobenzene	ug/L	50	50.8	102	70-130	
2-Butanone (MEK)	ug/L	100	99.8	100	70-133	
Benzene	ug/L	50	51.1	102	70-130	
Carbon tetrachloride	ug/L	50	52.6	105	70-130	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroform	ug/L	50	50.5	101	70-130	
Tetrachloroethene	ug/L	50	49.4	99	70-130	
Trichloroethene	ug/L	50	54.6	109	70-130	
Vinyl chloride	ug/L	50	43.1	86	59-142	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			97	67-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge
Pace Project No.: 92523530

Parameter	92524406001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1-Dichloroethene	ug/L	ND	50	50	51.8	53.7	104	107	70-158	4				
1,2-Dichloroethane	ug/L	ND	50	50	47.4	48.0	95	96	67-138	1				
1,4-Dichlorobenzene	ug/L	ND	50	50	50.4	51.9	101	104	70-133	3				
2-Butanone (MEK)	ug/L	ND	100	100	85.1	85.6	85	86	61-147	1				
Benzene	ug/L	ND	50	50	49.3	50.4	99	101	67-150	2				
Carbon tetrachloride	ug/L	ND	50	50	54.2	57.6	108	115	70-147	6				
Chlorobenzene	ug/L	ND	50	50	50.6	51.8	101	104	70-137	2				
Chloroform	ug/L	ND	50	50	50.0	53.4	100	107	70-144	7				
Tetrachloroethene	ug/L	ND	50	50	47.3	48.6	93	96	70-139	3				
Trichloroethene	ug/L	ND	50	50	49.9	54.3	100	109	70-149	9				
Vinyl chloride	ug/L	ND	50	50	41.7	41.5	83	83	55-172	1				
1,2-Dichloroethane-d4 (S)	%						100	102	70-130					
4-Bromofluorobenzene (S)	%						99	101	70-130					
Toluene-d8 (S)	%						101	101	67-135					

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge
Pace Project No.: 92523530

QC Batch: 602641 Analysis Method: EPA 8270E
QC Batch Method: EPA 3510C Analysis Description: 8270E TCLP MSSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523530001

METHOD BLANK: 3173201 Matrix: Water
Associated Lab Samples: 92523530001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	50.0	02/25/21 17:11	
2,4,5-Trichlorophenol	ug/L	ND	50.0	02/25/21 17:11	
2,4,6-Trichlorophenol	ug/L	ND	50.0	02/25/21 17:11	
2,4-Dinitrotoluene	ug/L	ND	50.0	02/25/21 17:11	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	02/25/21 17:11	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	02/25/21 17:11	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	02/25/21 17:11	
Hexachlorobenzene	ug/L	ND	50.0	02/25/21 17:11	
Hexachloroethane	ug/L	ND	50.0	02/25/21 17:11	
Nitrobenzene	ug/L	ND	50.0	02/25/21 17:11	
Pentachlorophenol	ug/L	ND	100	02/25/21 17:11	
Pyridine	ug/L	ND	50.0	02/25/21 17:11	
2,4,6-Tribromophenol (S)	%	126	10-144	02/25/21 17:11	
2-Fluorobiphenyl (S)	%	99	10-130	02/25/21 17:11	
2-Fluorophenol (S)	%	83	10-130	02/25/21 17:11	
Nitrobenzene-d5 (S)	%	116	10-144	02/25/21 17:11	
Phenol-d6 (S)	%	64	10-130	02/25/21 17:11	
Terphenyl-d14 (S)	%	142	34-163	02/25/21 17:11	

LABORATORY CONTROL SAMPLE: 3175330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	345	69	18-130	
2,4,5-Trichlorophenol	ug/L	500	637	127	35-130	
2,4,6-Trichlorophenol	ug/L	500	593	119	31-130	
2,4-Dinitrotoluene	ug/L	500	600	120	37-136	
2-Methylphenol(o-Cresol)	ug/L	500	488	98	35-130	
3&4-Methylphenol(m&p Cresol)	ug/L	500	485	97	34-130	
Hexachloro-1,3-butadiene	ug/L	500	276	55	11-130	
Hexachlorobenzene	ug/L	500	626	125	38-130	
Hexachloroethane	ug/L	500	294	59	14-130	
Nitrobenzene	ug/L	500	518	104	36-130	
Pentachlorophenol	ug/L	1000	1450	145	23-149	
Pyridine	ug/L	500	325	65	10-130	
2,4,6-Tribromophenol (S)	%			141	10-144	
2-Fluorobiphenyl (S)	%			78	10-130	
2-Fluorophenol (S)	%			66	10-130	
Nitrobenzene-d5 (S)	%			93	10-144	
Phenol-d6 (S)	%			54	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge
Pace Project No.: 92523530

LABORATORY CONTROL SAMPLE: 3175330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			145	34-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3175331 3175332

Parameter	92523680001		MS	MSD	MS		MSD		% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,4-Dichlorobenzene	ug/L	ND	500	500	422	443	84	89	10-130	5	
2,4,5-Trichlorophenol	ug/L	ND	500	500	709	721	142	144	10-143	2	M1
2,4,6-Trichlorophenol	ug/L	ND	500	500	680	671	136	134	10-147	1	
2,4-Dinitrotoluene	ug/L	ND	500	500	674	655	135	131	29-148	3	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	538	581	108	116	20-130	8	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	500	500	526	568	105	114	16-130	8	
Hexachloro-1,3-butadiene	ug/L	ND	500	500	409	404	82	81	10-130	1	
Hexachlorobenzene	ug/L	ND	500	500	626	654	125	131	29-130	5	M1
Hexachloroethane	ug/L	ND	500	500	393	402	79	80	10-130	2	
Nitrobenzene	ug/L	ND	500	500	586	604	117	121	25-130	3	
Pentachlorophenol	ug/L	ND	1000	1000	1330	1440	133	144	10-175	8	
Pyridine	ug/L	ND	500	500	348	412	70	82	10-130	17	
2,4,6-Tribromophenol (S)	%						132	138	10-144		
2-Fluorobiphenyl (S)	%						97	93	10-130		
2-Fluorophenol (S)	%						68	78	10-130		
Nitrobenzene-d5 (S)	%						104	108	10-144		
Phenol-d6 (S)	%						57	63	10-130		
Terphenyl-d14 (S)	%						138	143	34-163		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge

Pace Project No.: 92523530

QC Batch: 602385

Analysis Method: SW-846

QC Batch Method: SW-846

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523530001

SAMPLE DUPLICATE: 3174089

Parameter	Units	35609501001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.1	18.9	15	N2

SAMPLE DUPLICATE: 3174090

Parameter	Units	92523696002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	92.2	92.2	0	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge
Pace Project No.: 92523530

QC Batch: 603143	Analysis Method: EPA 9095B
QC Batch Method: EPA 9095B	Analysis Description: 9095 PAINT FILTER LIQUID TEST
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523530001

SAMPLE DUPLICATE: 3177941

Parameter	Units	92523634005 Result	Dup Result	RPD	Qualifiers
Free Liquids		Fail	Fail		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge

Pace Project No.: 92523530

QC Batch: 602171	Analysis Method: EPA 350.1 Rev 2.0 1993 Mod.
QC Batch Method: EPA 350.1 Rev 2.0 1993 Mod.	Analysis Description: 350.1 Ammonia
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523530001

METHOD BLANK: 3172791 Matrix: Solid

Associated Lab Samples: 92523530001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	9.6	02/24/21 14:42	

LABORATORY CONTROL SAMPLE: 3172792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	490	488	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172793 3172794

Parameter	Units	70161122001		3172793		3172794		% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Nitrogen, Ammonia	mg/kg	4670	2030	1990	6820	7020	107	119	90-110	3 M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Shoal Creek Sludge
Pace Project No.: 92523530

QC Batch: 602088 Analysis Method: EPA 353.2 Rev 2.0 1993
QC Batch Method: EPA 353.2 Rev 2.0 1993 Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92523530001

METHOD BLANK: 3172585 Matrix: Solid
Associated Lab Samples: 92523530001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/kg	ND	4.0	02/24/21 01:17	
Nitrogen, Nitrite	mg/kg	ND	4.0	02/24/21 01:17	
Nitrogen, NO2 plus NO3	mg/kg	ND	4.0	02/24/21 01:17	

LABORATORY CONTROL SAMPLE: 3172586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/kg	15	14.8	99	90-110	
Nitrogen, Nitrite	mg/kg	10	9.9	99	90-110	
Nitrogen, NO2 plus NO3	mg/kg	25	24.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172587 3172588

Parameter	Units	92523533001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Nitrogen, Nitrate	mg/kg	ND	73.4	73.4	70.0	71.3	95	97	90-110	2				
Nitrogen, Nitrite	mg/kg	ND	49.1	49.1	46.7	46.5	96	95	90-110	0				
Nitrogen, NO2 plus NO3	mg/kg	ND	122	122	117	118	94	95	90-110	1				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Shoal Creek Sludge

Pace Project No.: 92523530

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|---|
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| N2 | The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request. |
| R1 | RPD value was outside control limits. |
| T3 | Insufficient sample received from client to perform the analysis per EPA method requirements. |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Shoal Creek Sludge
Pace Project No.: 92523530

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523530001	Shoal Creek Sludge Cake	9071B	604217	9071B	604256
92523530001	Shoal Creek Sludge Cake	EPA 3050B	603326	EPA 6010D	603392
92523530001	Shoal Creek Sludge Cake	EPA 3010A	602906	EPA 6010D	602993
92523530001	Shoal Creek Sludge Cake	EPA 3510C	602641	EPA 8270E	602732
92523530001	Shoal Creek Sludge Cake	EPA 8260D	603513		
92523530001	Shoal Creek Sludge Cake	SW-846	602385		
92523530001	Shoal Creek Sludge Cake	EPA 9095B	603143		
92523530001	Shoal Creek Sludge Cake	EPA 350.1 Rev 2.0 1993 Mod.	602171	EPA 350.1 Rev 2.0 1993 Mod.	602235
92523530001	Shoal Creek Sludge Cake	EPA 353.2 Rev 2.0 1993	602088	EPA 353.2 Rev 2.0 1993	602090

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



Water Reclamation Laboratory

688 Flint River Rd.

Jonesboro, GA. 30238

(770) 478-7496 Fax (770) 478-7301

Permit #: GA0038423 / GA02-008

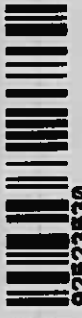
Date		Time	Sample Description	Pres.	Analysis	
2-23-21	8:32		Shoal Creek Sludge Cake	Ice		503 Parameters
						Paint Filter
						TPH (Total petroleum Hydrocarbons)
						TCLP Metals
						TCLP Volatiles
						TCLP Semi-Volatiles
						Total Metals
						Total Phosphorus

Composite/Grab

Additional Information:

Sampled By: Shore Wright	Date: 2-23-21	Time: 8:32
Relinquished By: Shore Wright	Date: 2-23-21	Time: 10:05
Received By: Josh Wright	Date: 2-23-21	Time: 10:05
Relinquished By: Josh Wright	Date: 2-23-21	Time: 10:18
Received By: K. Wallyson Pace	Date: 2/23/21	Time: 1158

WO#: 92523530



92523530



Document Name: Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020 Page 1 of 2

Document No.: F-CAR-CS-033-Rev.07

Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 92523530

Courier: Commercial

Fed Ex UPS USPS Client Pace Other:

PM: JS Due Date: 03/04/21 CLIENT: GA-ClaytonWW

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/23/21 KRW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer:

Yes No N/A

IR Gun ID: THR233

Type of Ice: Wet Blue None

Cooler Temp:

3.8 Correction Factor: Add/Subtract (°C) -0.2

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C):

3.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. Date and time sampled not present.
-Includes Date/Time/ID/Analysis Matrix:	S	
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

CLIENT PROVIDED SAMPLE CONTAINER

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

March 05, 2021

Jennifer Brandon
Clayton Co Water Authority
688 Flint River Road
Jonesboro, GA 30238

RE: Project: Northeast Sludge Cake
Pace Project No.: 92523533

Dear Jennifer Brandon:

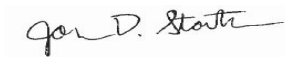
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John Stanton
john.stanton@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Van Beaty, Clayton Co Water Authority
Tony Somerville, Clayton Co Water Authority



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Northeast Sludge Cake

Pace Project No.: 92523533

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Northeast Sludge Cake

Pace Project No.: 92523533

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523533001	Northeast Sludge Cake	9071B	WAM	1	PASI-C
		EPA 6010D	DRB, KH	7	PASI-GA
		EPA 6010D	DRB	8	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 7471B	VB	1	PASI-GA
		EPA 8270E	PKS	18	PASI-C
		EPA 8260D	SAS	14	PASI-C
		SW-846	KDF	1	PASI-C
		EPA 9095B	SMK	1	PASI-A
		TKN+NO3+NO2 Calculation	EWS	1	PASI-A
		EPA 350.1 Rev 2.0 1993 Mod.	KDF1	1	PASI-A
		EPA 351.2 Rev 2.0 1993	MFO	1	PASI-A
		EPA 353.2 Rev 2.0 1993	CJL	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Northeast Sludge Cake
Pace Project No.: 92523533

Sample: Northeast Sludge Cake Lab ID: 92523533001 Collected: 02/22/21 16:00 Received: 02/23/21 11:58 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9071 SGT-HEM, TPH								
Analytical Method: 9071B Preparation Method: 9071B Pace Analytical Services - Charlotte								
Total Petroleum Hydrocarbons	519	mg/kg	363	1	03/04/21 11:45	03/04/21 14:16		N2
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Peachtree Corners, GA								
Arsenic	5.4	mg/kg	3.7	1	03/01/21 14:42	03/02/21 20:03	7440-38-2	
Barium	295	mg/kg	1.2	1	03/01/21 14:42	03/02/21 00:56	7440-39-3	
Cadmium	ND	mg/kg	1.2	1	03/01/21 14:42	03/02/21 00:56	7440-43-9	
Chromium	24.2	mg/kg	1.2	1	03/01/21 14:42	03/02/21 00:56	7440-47-3	
Lead	4.1	mg/kg	3.1	1	03/01/21 14:42	03/02/21 00:56	7439-92-1	
Selenium	6.4	mg/kg	5.0	1	03/01/21 14:42	03/02/21 00:56	7782-49-2	
Silver	1.2	mg/kg	1.2	1	03/01/21 14:42	03/02/21 00:56	7440-22-4	
6010D ATL ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 02/25/21 15:30 Initial pH: 9.05; Final pH: 5.45 Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.30	1	02/26/21 11:51	02/26/21 20:44	7440-38-2	
Barium	ND	mg/L	0.50	1	02/26/21 11:51	02/26/21 20:44	7440-39-3	
Cadmium	ND	mg/L	0.10	1	02/26/21 11:51	02/26/21 20:44	7440-43-9	
Chromium	ND	mg/L	0.10	1	02/26/21 11:51	02/26/21 20:44	7440-47-3	
Lead	ND	mg/L	0.25	1	02/26/21 11:51	02/26/21 20:44	7439-92-1	
Phosphorus	32.9	mg/L	0.50	1	02/26/21 11:51	02/26/21 20:44	7723-14-0	
Selenium	ND	mg/L	0.40	1	02/26/21 11:51	02/26/21 20:44	7782-49-2	
Silver	ND	mg/L	0.10	1	02/26/21 11:51	02/26/21 20:44	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 02/25/21 15:30 Initial pH: 9.05; Final pH: 5.45 Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.0050	1	03/01/21 09:15	03/01/21 14:10	7439-97-6	
7471 Mercury								
Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/kg	0.30	1	03/02/21 10:35	03/02/21 13:08	7439-97-6	
8270E TCLP RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C Leachate Method/Date: EPA 1311; 02/24/21 15:14 Initial pH: 5.44; Final pH: 5 Pace Analytical Services - Charlotte								
1,4-Dichlorobenzene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	87-68-3	
Hexachlorobenzene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	118-74-1	
Hexachloroethane	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	15831-10-4	
Nitrobenzene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	98-95-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Northeast Sludge Cake
Pace Project No.: 92523533

Sample: Northeast Sludge Cake **Lab ID: 92523533001** Collected: 02/22/21 16:00 Received: 02/23/21 11:58 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270E TCLP RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C								
Leachate Method/Date: EPA 1311; 02/24/21 15:14 Initial pH: 5.44; Final pH: 5								
Pace Analytical Services - Charlotte								
Pentachlorophenol	ND	ug/L	100	1	02/25/21 14:44	02/26/21 14:32	87-86-5	
Pyridine	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 14:32	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	80	%	10-144	1	02/25/21 14:44	02/26/21 14:32	4165-60-0	
2-Fluorobiphenyl (S)	73	%	10-130	1	02/25/21 14:44	02/26/21 14:32	321-60-8	
Terphenyl-d14 (S)	145	%	34-163	1	02/25/21 14:44	02/26/21 14:32	1718-51-0	
Phenol-d6 (S)	45	%	10-130	1	02/25/21 14:44	02/26/21 14:32	13127-88-3	
2-Fluorophenol (S)	56	%	10-130	1	02/25/21 14:44	02/26/21 14:32	367-12-4	
2,4,6-Tribromophenol (S)	87	%	10-144	1	02/25/21 14:44	02/26/21 14:32	118-79-6	
8260D MSV TCLP								
Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 03/01/21 13:34								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	100	20		03/02/21 12:35	71-43-2	
2-Butanone (MEK)	ND	ug/L	200	20		03/02/21 12:35	78-93-3	
Carbon tetrachloride	ND	ug/L	100	20		03/02/21 12:35	56-23-5	
Chlorobenzene	ND	ug/L	100	20		03/02/21 12:35	108-90-7	
Chloroform	ND	ug/L	100	20		03/02/21 12:35	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	100	20		03/02/21 12:35	106-46-7	
1,2-Dichloroethane	ND	ug/L	100	20		03/02/21 12:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	20		03/02/21 12:35	75-35-4	
Tetrachloroethene	ND	ug/L	100	20		03/02/21 12:35	127-18-4	
Trichloroethene	ND	ug/L	100	20		03/02/21 12:35	79-01-6	
Vinyl chloride	ND	ug/L	100	20		03/02/21 12:35	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%	70-130	20		03/02/21 12:35	17060-07-0	
Toluene-d8 (S)	111	%	67-135	20		03/02/21 12:35	2037-26-5	
4-Bromofluorobenzene (S)	104	%	70-130	20		03/02/21 12:35	460-00-4	
Percent Moisture								
Analytical Method: SW-846								
Pace Analytical Services - Charlotte								
Percent Moisture	80.7	%	0.10	1		02/24/21 17:12		N2
9095 Paint Filter Liquid Test								
Analytical Method: EPA 9095B								
Pace Analytical Services - Asheville								
Free Liquids	Pass		1.0	1		03/02/21 11:47		T3
Total Nitrogen Calculation								
Analytical Method: TKN+NO3+NO2 Calculation								
Pace Analytical Services - Asheville								
Nitrogen	83000	mg/kg	40.0	1		03/02/21 14:56	7727-37-9	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Northeast Sludge Cake
Pace Project No.: 92523533

Sample: Northeast Sludge Cake Lab ID: 92523533001 Collected: 02/22/21 16:00 Received: 02/23/21 11:58 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia								
Analytical Method: EPA 350.1 Rev 2.0 1993 Mod. Preparation Method: EPA 350.1 Rev 2.0 1993 Mod. Pace Analytical Services - Asheville								
Nitrogen, Ammonia	5040	mg/kg	97.5	2	02/24/21 10:22	02/24/21 15:19	7664-41-7	
351.2 Total Kjeldahl Nitrogen								
Analytical Method: EPA 351.2 Rev 2.0 1993 Preparation Method: EPA 351.2 Rev 2.0 1993 Pace Analytical Services - Asheville								
Nitrogen, Kjeldahl, Total	83000	mg/kg	2580	10	02/26/21 21:38	02/27/21 07:16	7727-37-9	
353.2 Nitrogen, NO2/NO3								
Analytical Method: EPA 353.2 Rev 2.0 1993 Preparation Method: EPA 353.2 Rev 2.0 1993 Pace Analytical Services - Asheville								
Nitrogen, NO2 plus NO3	ND	mg/kg	19.6	1	02/23/21 22:14	02/24/21 01:19		
Nitrogen, Nitrate	ND	mg/kg	19.6	1	02/23/21 22:14	02/24/21 01:19	14797-55-8	
Nitrogen, Nitrite	ND	mg/kg	19.6	1	02/23/21 22:14	02/24/21 01:19	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake

Pace Project No.: 92523533

QC Batch: 604217

Analysis Method: 9071B

QC Batch Method: 9071B

Analysis Description: 9071B SGT-HEM, TPH Gravimetric

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523533001

METHOD BLANK: 3183111

Matrix: Solid

Associated Lab Samples: 92523533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	68.9	03/04/21 14:16	N2

LABORATORY CONTROL SAMPLE: 3183112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	667	570	86	78-114	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183113 3183114

Parameter	Units	3183113		3183114		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Total Petroleum Hydrocarbons	mg/kg	477	3230	3310	1600	2220	35	53	78-114	32 M1,N2,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92523533

QC Batch: 603326 Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92523533001

METHOD BLANK: 3178799 Matrix: Solid
Associated Lab Samples: 92523533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	3.0	03/02/21 19:24	
Barium	mg/kg	ND	1.0	03/02/21 00:36	
Cadmium	mg/kg	ND	1.0	03/02/21 00:36	
Chromium	mg/kg	ND	1.0	03/02/21 00:36	
Lead	mg/kg	ND	2.5	03/02/21 19:24	
Selenium	mg/kg	ND	4.0	03/02/21 00:36	
Silver	mg/kg	ND	1.0	03/02/21 00:36	

LABORATORY CONTROL SAMPLE: 3178800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	94.3	93.0	99	80-120	
Barium	mg/kg	94.3	97.2	103	80-120	
Cadmium	mg/kg	94.3	93.6	99	80-120	
Chromium	mg/kg	94.3	96.9	103	80-120	
Lead	mg/kg	94.3	94.8	101	80-120	
Selenium	mg/kg	94.3	92.1	98	80-120	
Silver	mg/kg	94.3	90.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3178801 3178803

Parameter	Units	92524325001		3178801		3178803		% Rec	% Rec	% Rec Limits	RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
Arsenic	mg/kg	7.3	121	117	119	121	92	97	75-125	1		
Barium	mg/kg	300	121	117	444	456	119	134	75-125	3	M1	
Cadmium	mg/kg	ND	121	117	117	116	97	99	75-125	1		
Chromium	mg/kg	19.3	121	117	136	134	97	99	75-125	1		
Lead	mg/kg	ND	121	117	139	142	112	119	75-125	2		
Selenium	mg/kg	ND	121	117	112	114	91	97	75-125	3		
Silver	mg/kg	ND	121	117	115	113	92	94	75-125	2		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92523533

QC Batch: 602906 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL TCLP
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92523533001

METHOD BLANK: 3173475 Matrix: Water
Associated Lab Samples: 92523533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.30	02/26/21 19:51	
Barium	mg/L	ND	0.50	02/26/21 19:51	
Cadmium	mg/L	ND	0.10	02/26/21 19:51	
Chromium	mg/L	ND	0.10	02/26/21 19:51	
Lead	mg/L	ND	0.25	02/26/21 19:51	
Phosphorus	mg/L	ND	0.50	02/26/21 19:51	
Selenium	mg/L	ND	0.40	02/26/21 19:51	
Silver	mg/L	ND	0.10	02/26/21 19:51	

LABORATORY CONTROL SAMPLE: 3176674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	10	9.3	93	80-120	
Barium	mg/L	10	9.2	92	80-120	
Cadmium	mg/L	10	9.3	93	80-120	
Chromium	mg/L	10	9.5	95	80-120	
Lead	mg/L	10	9.6	96	80-120	
Phosphorus	mg/L	10	9.7	97	80-120	
Selenium	mg/L	10	10.2	102	80-120	
Silver	mg/L	10	9.3	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176675 3176676

Parameter	92523436001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.							
Arsenic	mg/L	ND	10	10	10.5	10.2	105	102	75-125	3	
Barium	mg/L	ND	10	10	9.7	9.7	97	97	75-125	0	
Cadmium	mg/L	ND	10	10	10.1	10.0	101	100	75-125	0	
Chromium	mg/L	ND	10	10	9.7	9.8	97	97	75-125	1	
Lead	mg/L	ND	10	10	9.7	9.8	97	98	75-125	1	
Phosphorus	mg/L	0.99	10	10	11.5	11.5	105	105	75-125	0	
Selenium	mg/L	ND	10	10	10.7	10.4	106	102	75-125	3	
Silver	mg/L	ND	10	10	9.9	10.0	99	100	75-125	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92523533

QC Batch: 602875	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury TCLP, ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92523533001

METHOD BLANK: 3173475 Matrix: Water

Associated Lab Samples: 92523533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0050	03/01/21 14:12	

LABORATORY CONTROL SAMPLE: 3176532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.017	0.017	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176530 3176531

Parameter	Units	92520503001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Mercury	mg/L	ND	0.017	0.017	0.017	0.016	93	88	75-125	6	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake

Pace Project No.: 92523533

QC Batch: 602882	Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B	Analysis Description: 7471 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92523533001

METHOD BLANK: 3176568 Matrix: Solid

Associated Lab Samples: 92523533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.24	03/02/21 13:01	

LABORATORY CONTROL SAMPLE: 3176569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.31	0.28	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176570 3176571

Parameter	Units	92524170001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result					
Mercury	mg/kg	ND	0.32	0.33	0.33	0.33	48	46	75-125	0	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92523533

QC Batch: 603513 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV TCLP
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523533001

METHOD BLANK: 3179462 Matrix: Water
Associated Lab Samples: 92523533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	03/02/21 11:08	
1,2-Dichloroethane	ug/L	ND	5.0	03/02/21 11:08	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/02/21 11:08	
2-Butanone (MEK)	ug/L	ND	10.0	03/02/21 11:08	
Benzene	ug/L	ND	5.0	03/02/21 11:08	
Carbon tetrachloride	ug/L	ND	5.0	03/02/21 11:08	
Chlorobenzene	ug/L	ND	5.0	03/02/21 11:08	
Chloroform	ug/L	ND	5.0	03/02/21 11:08	
Tetrachloroethene	ug/L	ND	5.0	03/02/21 11:08	
Trichloroethene	ug/L	ND	5.0	03/02/21 11:08	
Vinyl chloride	ug/L	ND	5.0	03/02/21 11:08	
1,2-Dichloroethane-d4 (S)	%	95	70-130	03/02/21 11:08	
4-Bromofluorobenzene (S)	%	101	70-130	03/02/21 11:08	
Toluene-d8 (S)	%	107	67-135	03/02/21 11:08	

LABORATORY CONTROL SAMPLE: 3179461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	54.3	109	70-132	
1,2-Dichloroethane	ug/L	50	49.9	100	70-130	
1,4-Dichlorobenzene	ug/L	50	50.8	102	70-130	
2-Butanone (MEK)	ug/L	100	99.8	100	70-133	
Benzene	ug/L	50	51.1	102	70-130	
Carbon tetrachloride	ug/L	50	52.6	105	70-130	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroform	ug/L	50	50.5	101	70-130	
Tetrachloroethene	ug/L	50	49.4	99	70-130	
Trichloroethene	ug/L	50	54.6	109	70-130	
Vinyl chloride	ug/L	50	43.1	86	59-142	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			97	67-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake

Pace Project No.: 92523533

Parameter	Units	3179463		3179464		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92524406001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,1-Dichloroethene	ug/L	ND	50	50	51.8	53.7	104	107	70-158	4		
1,2-Dichloroethane	ug/L	ND	50	50	47.4	48.0	95	96	67-138	1		
1,4-Dichlorobenzene	ug/L	ND	50	50	50.4	51.9	101	104	70-133	3		
2-Butanone (MEK)	ug/L	ND	100	100	85.1	85.6	85	86	61-147	1		
Benzene	ug/L	ND	50	50	49.3	50.4	99	101	67-150	2		
Carbon tetrachloride	ug/L	ND	50	50	54.2	57.6	108	115	70-147	6		
Chlorobenzene	ug/L	ND	50	50	50.6	51.8	101	104	70-137	2		
Chloroform	ug/L	ND	50	50	50.0	53.4	100	107	70-144	7		
Tetrachloroethene	ug/L	ND	50	50	47.3	48.6	93	96	70-139	3		
Trichloroethene	ug/L	ND	50	50	49.9	54.3	100	109	70-149	9		
Vinyl chloride	ug/L	ND	50	50	41.7	41.5	83	83	55-172	1		
1,2-Dichloroethane-d4 (S)	%						100	102	70-130			
4-Bromofluorobenzene (S)	%						99	101	70-130			
Toluene-d8 (S)	%						101	101	67-135			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92523533

QC Batch: 602641 Analysis Method: EPA 8270E
QC Batch Method: EPA 3510C Analysis Description: 8270E TCLP MSSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523533001

METHOD BLANK: 3173201 Matrix: Water
Associated Lab Samples: 92523533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	50.0	02/25/21 17:11	
2,4,5-Trichlorophenol	ug/L	ND	50.0	02/25/21 17:11	
2,4,6-Trichlorophenol	ug/L	ND	50.0	02/25/21 17:11	
2,4-Dinitrotoluene	ug/L	ND	50.0	02/25/21 17:11	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	02/25/21 17:11	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	02/25/21 17:11	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	02/25/21 17:11	
Hexachlorobenzene	ug/L	ND	50.0	02/25/21 17:11	
Hexachloroethane	ug/L	ND	50.0	02/25/21 17:11	
Nitrobenzene	ug/L	ND	50.0	02/25/21 17:11	
Pentachlorophenol	ug/L	ND	100	02/25/21 17:11	
Pyridine	ug/L	ND	50.0	02/25/21 17:11	
2,4,6-Tribromophenol (S)	%	126	10-144	02/25/21 17:11	
2-Fluorobiphenyl (S)	%	99	10-130	02/25/21 17:11	
2-Fluorophenol (S)	%	83	10-130	02/25/21 17:11	
Nitrobenzene-d5 (S)	%	116	10-144	02/25/21 17:11	
Phenol-d6 (S)	%	64	10-130	02/25/21 17:11	
Terphenyl-d14 (S)	%	142	34-163	02/25/21 17:11	

LABORATORY CONTROL SAMPLE: 3175330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	345	69	18-130	
2,4,5-Trichlorophenol	ug/L	500	637	127	35-130	
2,4,6-Trichlorophenol	ug/L	500	593	119	31-130	
2,4-Dinitrotoluene	ug/L	500	600	120	37-136	
2-Methylphenol(o-Cresol)	ug/L	500	488	98	35-130	
3&4-Methylphenol(m&p Cresol)	ug/L	500	485	97	34-130	
Hexachloro-1,3-butadiene	ug/L	500	276	55	11-130	
Hexachlorobenzene	ug/L	500	626	125	38-130	
Hexachloroethane	ug/L	500	294	59	14-130	
Nitrobenzene	ug/L	500	518	104	36-130	
Pentachlorophenol	ug/L	1000	1450	145	23-149	
Pyridine	ug/L	500	325	65	10-130	
2,4,6-Tribromophenol (S)	%			141	10-144	
2-Fluorobiphenyl (S)	%			78	10-130	
2-Fluorophenol (S)	%			66	10-130	
Nitrobenzene-d5 (S)	%			93	10-144	
Phenol-d6 (S)	%			54	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92523533

LABORATORY CONTROL SAMPLE: 3175330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			145	34-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3175331 3175332

Parameter	92523680001		MS	MSD	MS		MSD		% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,4-Dichlorobenzene	ug/L	ND	500	500	422	443	84	89	10-130	5	
2,4,5-Trichlorophenol	ug/L	ND	500	500	709	721	142	144	10-143	2	M1
2,4,6-Trichlorophenol	ug/L	ND	500	500	680	671	136	134	10-147	1	
2,4-Dinitrotoluene	ug/L	ND	500	500	674	655	135	131	29-148	3	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	538	581	108	116	20-130	8	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	500	500	526	568	105	114	16-130	8	
Hexachloro-1,3-butadiene	ug/L	ND	500	500	409	404	82	81	10-130	1	
Hexachlorobenzene	ug/L	ND	500	500	626	654	125	131	29-130	5	M1
Hexachloroethane	ug/L	ND	500	500	393	402	79	80	10-130	2	
Nitrobenzene	ug/L	ND	500	500	586	604	117	121	25-130	3	
Pentachlorophenol	ug/L	ND	1000	1000	1330	1440	133	144	10-175	8	
Pyridine	ug/L	ND	500	500	348	412	70	82	10-130	17	
2,4,6-Tribromophenol (S)	%						132	138	10-144		
2-Fluorobiphenyl (S)	%						97	93	10-130		
2-Fluorophenol (S)	%						68	78	10-130		
Nitrobenzene-d5 (S)	%						104	108	10-144		
Phenol-d6 (S)	%						57	63	10-130		
Terphenyl-d14 (S)	%						138	143	34-163		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake

Pace Project No.: 92523533

QC Batch: 602385

Analysis Method: SW-846

QC Batch Method: SW-846

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523533001

SAMPLE DUPLICATE: 3174089

Parameter	Units	35609501001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.1	18.9	15	N2

SAMPLE DUPLICATE: 3174090

Parameter	Units	92523696002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	92.2	92.2	0	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake
Pace Project No.: 92523533

QC Batch: 603143	Analysis Method: EPA 9095B
QC Batch Method: EPA 9095B	Analysis Description: 9095 PAINT FILTER LIQUID TEST
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523533001

SAMPLE DUPLICATE: 3177941

Parameter	Units	92523634005 Result	Dup Result	RPD	Qualifiers
Free Liquids		Fail	Fail		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake

Pace Project No.: 92523533

QC Batch: 602171	Analysis Method: EPA 350.1 Rev 2.0 1993 Mod.
QC Batch Method: EPA 350.1 Rev 2.0 1993 Mod.	Analysis Description: 350.1 Ammonia
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523533001

METHOD BLANK: 3172791 Matrix: Solid

Associated Lab Samples: 92523533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	9.6	02/24/21 14:42	

LABORATORY CONTROL SAMPLE: 3172792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	490	488	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172793 3172794

Parameter	Units	70161122001		MS		MSD		% Rec		RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Nitrogen, Ammonia	mg/kg	4670	2030	1990	6820	7020	107	119	90-110	3	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake

Pace Project No.: 92523533

QC Batch: 603046

Analysis Method: EPA 351.2 Rev 2.0 1993

QC Batch Method: EPA 351.2 Rev 2.0 1993

Analysis Description: 351.2 TKN

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523533001

METHOD BLANK: 3177616

Matrix: Solid

Associated Lab Samples: 92523533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	02/27/21 06:46	

LABORATORY CONTROL SAMPLE: 3177617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	959	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3177618 3177619

Parameter	Units	3177618		3177619		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Nitrogen, Kjeldahl, Total	mg/kg	39100	4660	4660	59900	71100	444	684	90-110	17 M6,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Northeast Sludge Cake

Pace Project No.: 92523533

QC Batch: 602088

Analysis Method: EPA 353.2 Rev 2.0 1993

QC Batch Method: EPA 353.2 Rev 2.0 1993

Analysis Description: 353.2 Nitrate + Nitrite

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523533001

METHOD BLANK: 3172585

Matrix: Solid

Associated Lab Samples: 92523533001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/kg	ND	4.0	02/24/21 01:17	
Nitrogen, Nitrite	mg/kg	ND	4.0	02/24/21 01:17	
Nitrogen, NO2 plus NO3	mg/kg	ND	4.0	02/24/21 01:17	

LABORATORY CONTROL SAMPLE: 3172586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/kg	15	14.8	99	90-110	
Nitrogen, Nitrite	mg/kg	10	9.9	99	90-110	
Nitrogen, NO2 plus NO3	mg/kg	25	24.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172587 3172588

Parameter	Units	92523533001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Nitrogen, Nitrate	mg/kg	ND	73.4	73.4	70.0	71.3	95	97	90-110	2				
Nitrogen, Nitrite	mg/kg	ND	49.1	49.1	46.7	46.5	96	95	90-110	0				
Nitrogen, NO2 plus NO3	mg/kg	ND	122	122	117	118	94	95	90-110	1				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Northeast Sludge Cake

Pace Project No.: 92523533

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

R1 RPD value was outside control limits.

T3 Insufficient sample received from client to perform the analysis per EPA method requirements.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Northeast Sludge Cake
Pace Project No.: 92523533

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523533001	Northeast Sludge Cake	9071B	604217	9071B	604256
92523533001	Northeast Sludge Cake	EPA 3050B	603326	EPA 6010D	603392
92523533001	Northeast Sludge Cake	EPA 3010A	602906	EPA 6010D	602993
92523533001	Northeast Sludge Cake	EPA 7470A	602875	EPA 7470A	603236
92523533001	Northeast Sludge Cake	EPA 7471B	602882	EPA 7471B	603566
92523533001	Northeast Sludge Cake	EPA 3510C	602641	EPA 8270E	602732
92523533001	Northeast Sludge Cake	EPA 8260D	603513		
92523533001	Northeast Sludge Cake	SW-846	602385		
92523533001	Northeast Sludge Cake	EPA 9095B	603143		
92523533001	Northeast Sludge Cake	TKN+NO3+NO2 Calculation	603648		
92523533001	Northeast Sludge Cake	EPA 350.1 Rev 2.0 1993 Mod.	602171	EPA 350.1 Rev 2.0 1993 Mod.	602235
92523533001	Northeast Sludge Cake	EPA 351.2 Rev 2.0 1993	603046	EPA 351.2 Rev 2.0 1993	603083
92523533001	Northeast Sludge Cake	EPA 353.2 Rev 2.0 1993	602088	EPA 353.2 Rev 2.0 1993	602090

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



CLAYTON COUNTY
Water
AUTHORITY
Water Reclamation Laboratory
688 Flint River Rd.
Jonesboro, GA. 30238
(770) 478-7496 Fax (770) 478-7301
Permit #: GA0038423 / GA02-008

Date	Time	Sample Description	Pres.	503 Parameters	Paint Filter	TPH (Total petroleum Hydrocarbons)	TCLP Metals	TCLP Volatiles	TCLP Semi-Volatiles	Total Metals	Total Phosphorus
2-22-21	4:00	Northeast Sludge Cake	Ice	X	X	X	X	X	X	X	X

Additional Information:

Sampled By: Helan Fayer	Date: 2-22-21	Time: 4:00
Relinquished By: Helan Fayer	Date: 2-23-21	Time: 9:00
Received By: Josh Woods	Date: 2-23-21	Time: 9:00
Relinquished By: Josh Woods	Date: 2-23-21	Time: 10:00
Received By: K. Williams / Pace	Date: 2/23/21	Time: 1158

WO# : 92523533

92523533



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Project #:

WO#: 92523533

PM: JS

Due Date: 03/04/21

CLIENT: GA-ClaytonWW

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/23/21 KRW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Thermometer: IR Gun ID: THR233 Type of Ice: Wet Blue None

Yes No N/A

Cooler Temp: 3.8 Correction Factor: -0.2

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

Yes No

Comments/Discrepancy:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: S		9. Date and time sampled not present.
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

CLIENT PROVIDED
SAMPLE CONTAINER

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

March 05, 2021

Jennifer Brandon
Clayton Co Water Authority
688 Flint River Road
Jonesboro, GA 30238

RE: Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

Dear Jennifer Brandon:

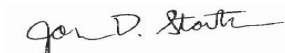
Enclosed are the analytical results for sample(s) received by the laboratory on February 23, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



John Stanton
john.stanton@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Van Beaty, Clayton Co Water Authority
Tony Somerville, Clayton Co Water Authority



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Pelletizing Sludge Cake

Pace Project No.: 92523517

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92523517001	Pelletizing Sludge Cake	9071B	WAM	1	PASI-C
		EPA 6010D	DRB, KH	11	PASI-GA
		EPA 6010D	DRB	7	PASI-GA
		EPA 7470A	VB	1	PASI-GA
		EPA 7471B	VB	1	PASI-GA
		EPA 8270E	PKS	18	PASI-C
		EPA 8260D	SAS	14	PASI-C
		SW-846	KDF	1	PASI-C
		EPA 9095B	SMK	1	PASI-A
		TKN+NO3+NO2 Calculation	EWS	1	PASI-A
		EPA 350.1 Rev 2.0 1993 Mod.	KDF1	1	PASI-A
		EPA 351.2 Rev 2.0 1993	MFO	1	PASI-A
		EPA 353.2 Rev 2.0 1993	CJL	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

Sample: Pelletizing Sludge Cake **Lab ID: 92523517001** Collected: 02/23/21 09:15 Received: 02/23/21 11:58 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9071 SGT-HEM, TPH								
Analytical Method: 9071B Preparation Method: 9071B Pace Analytical Services - Charlotte								
Total Petroleum Hydrocarbons	477	mg/kg	345	1	03/04/21 11:45	03/04/21 14:16		M1, N2, R1
6010D ATL ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/kg	3.6	1	03/01/21 14:42	03/02/21 19:44	7440-38-2	
Cadmium	ND	mg/kg	1.2	1	03/01/21 14:42	03/02/21 00:46	7440-43-9	
Chromium	15.1	mg/kg	1.2	1	03/01/21 14:42	03/02/21 00:46	7440-47-3	
Copper	166	mg/kg	4.8	1	03/01/21 14:42	03/02/21 00:46	7440-50-8	
Lead	14.5	mg/kg	3.0	1	03/01/21 14:42	03/02/21 00:46	7439-92-1	
Molybdenum	ND	mg/kg	4.8	1	03/01/21 14:42	03/02/21 00:46	7439-98-7	
Nickel	11.7	mg/kg	2.4	1	03/01/21 14:42	03/02/21 00:46	7440-02-0	
Phosphorus	19800	mg/kg	2410	100	03/01/21 14:42	03/02/21 19:49	7723-14-0	
Potassium	3060	mg/kg	24.1	1	03/01/21 14:42	03/02/21 19:44	7440-09-7	
Selenium	5.9	mg/kg	4.8	1	03/01/21 14:42	03/02/21 00:46	7782-49-2	
Zinc	291	mg/kg	2.4	1	03/01/21 14:42	03/02/21 00:46	7440-66-6	
6010D ATL ICP, TCLP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Leachate Method/Date: EPA 1311; 02/25/21 15:30 Initial pH: 8.73; Final pH: 5.95 Pace Analytical Services - Peachtree Corners, GA								
Arsenic	ND	mg/L	0.30	1	02/26/21 11:51	02/26/21 20:35	7440-38-2	
Barium	ND	mg/L	0.50	1	02/26/21 11:51	02/26/21 20:35	7440-39-3	
Cadmium	ND	mg/L	0.10	1	02/26/21 11:51	02/26/21 20:35	7440-43-9	
Chromium	ND	mg/L	0.10	1	02/26/21 11:51	02/26/21 20:35	7440-47-3	
Lead	ND	mg/L	0.25	1	02/26/21 11:51	02/26/21 20:35	7439-92-1	
Selenium	ND	mg/L	0.40	1	02/26/21 11:51	02/26/21 20:35	7782-49-2	
Silver	ND	mg/L	0.10	1	02/26/21 11:51	02/26/21 20:35	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Leachate Method/Date: EPA 1311; 02/25/21 15:30 Initial pH: 8.73; Final pH: 5.95 Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.0050	1	03/01/21 09:15	03/01/21 14:08	7439-97-6	
7471 Mercury								
Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/kg	0.29	1	03/02/21 10:35	03/02/21 13:05	7439-97-6	
8270E TCLP RVE								
Analytical Method: EPA 8270E Preparation Method: EPA 3510C Leachate Method/Date: EPA 1311; 02/24/21 15:14 Initial pH: 5.09; Final pH: 5 Pace Analytical Services - Charlotte								
1,4-Dichlorobenzene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	87-68-3	
Hexachlorobenzene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	118-74-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

Sample: Pelletizing Sludge Cake **Lab ID: 92523517001** Collected: 02/23/21 09:15 Received: 02/23/21 11:58 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	----	----------	----------	---------	------

8270E TCLP RVE

Analytical Method: EPA 8270E Preparation Method: EPA 3510C
Leachate Method/Date: EPA 1311; 02/24/21 15:14 Initial pH: 5.09; Final pH: 5
Pace Analytical Services - Charlotte

Hexachloroethane	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	95-48-7	
3&4-Methylphenol(m&p Cresol)	53.0	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	15831-10-4	
Nitrobenzene	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	98-95-3	
Pentachlorophenol	ND	ug/L	100	1	02/25/21 14:44	02/26/21 13:42	87-86-5	
Pyridine	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	50.0	1	02/25/21 14:44	02/26/21 13:42	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	119	%	10-144	1	02/25/21 14:44	02/26/21 13:42	4165-60-0	
2-Fluorobiphenyl (S)	115	%	10-130	1	02/25/21 14:44	02/26/21 13:42	321-60-8	
Terphenyl-d14 (S)	166	%	34-163	1	02/25/21 14:44	02/26/21 13:42	1718-51-0	S0
Phenol-d6 (S)	70	%	10-130	1	02/25/21 14:44	02/26/21 13:42	13127-88-3	
2-Fluorophenol (S)	86	%	10-130	1	02/25/21 14:44	02/26/21 13:42	367-12-4	
2,4,6-Tribromophenol (S)	123	%	10-144	1	02/25/21 14:44	02/26/21 13:42	118-79-6	

8260D MSV TCLP

Analytical Method: EPA 8260D Leachate Method/Date: EPA 1311; 03/01/21 13:34
Pace Analytical Services - Charlotte

Benzene	ND	ug/L	100	20		03/02/21 12:00	71-43-2	
2-Butanone (MEK)	324	ug/L	200	20		03/02/21 12:00	78-93-3	
Carbon tetrachloride	ND	ug/L	100	20		03/02/21 12:00	56-23-5	
Chlorobenzene	ND	ug/L	100	20		03/02/21 12:00	108-90-7	
Chloroform	ND	ug/L	100	20		03/02/21 12:00	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	100	20		03/02/21 12:00	106-46-7	
1,2-Dichloroethane	ND	ug/L	100	20		03/02/21 12:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	100	20		03/02/21 12:00	75-35-4	
Tetrachloroethene	ND	ug/L	100	20		03/02/21 12:00	127-18-4	
Trichloroethene	ND	ug/L	100	20		03/02/21 12:00	79-01-6	
Vinyl chloride	ND	ug/L	100	20		03/02/21 12:00	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%	70-130	20		03/02/21 12:00	17060-07-0	
Toluene-d8 (S)	113	%	67-135	20		03/02/21 12:00	2037-26-5	
4-Bromofluorobenzene (S)	100	%	70-130	20		03/02/21 12:00	460-00-4	

Percent Moisture

Analytical Method: SW-846
Pace Analytical Services - Charlotte

Percent Moisture	79.6	%	0.10	1		02/24/21 17:12		N2
------------------	-------------	---	------	---	--	----------------	--	----

9095 Paint Filter Liquid Test

Analytical Method: EPA 9095B
Pace Analytical Services - Asheville

Free Liquids	Pass		1.0	1		03/02/21 11:31		
--------------	-------------	--	-----	---	--	----------------	--	--

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

Sample: Pelletizing Sludge Cake **Lab ID: 92523517001** Collected: 02/23/21 09:15 Received: 02/23/21 11:58 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Nitrogen Calculation		Analytical Method: TKN+NO3+NO2 Calculation Pace Analytical Services - Asheville						
Nitrogen	39100	mg/kg	40.0	1		03/02/21 14:56	7727-37-9	
350.1 Ammonia		Analytical Method: EPA 350.1 Rev 2.0 1993 Mod. Preparation Method: EPA 350.1 Rev 2.0 1993 Mod. Pace Analytical Services - Asheville						
Nitrogen, Ammonia	2450	mg/kg	46.2	1	02/24/21 10:22	02/24/21 14:52	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Rev 2.0 1993 Preparation Method: EPA 351.2 Rev 2.0 1993 Pace Analytical Services - Asheville						
Nitrogen, Kjeldahl, Total	39100	mg/kg	2450	10	02/26/21 21:38	02/27/21 07:29	7727-37-9	M6,R1
353.2 Nitrogen, NO2/NO3		Analytical Method: EPA 353.2 Rev 2.0 1993 Preparation Method: EPA 353.2 Rev 2.0 1993 Pace Analytical Services - Asheville						
Nitrogen, NO2 plus NO3	ND	mg/kg	18.1	1	02/23/21 22:14	02/24/21 01:24		
Nitrogen, Nitrate	ND	mg/kg	18.1	1	02/23/21 22:14	02/24/21 01:24	14797-55-8	
Nitrogen, Nitrite	ND	mg/kg	18.1	1	02/23/21 22:14	02/24/21 01:24	14797-65-0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

QC Batch: 604217	Analysis Method: 9071B
QC Batch Method: 9071B	Analysis Description: 9071B SGT-HEM, TPH Gravimetric
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523517001

METHOD BLANK: 3183111 Matrix: Solid

Associated Lab Samples: 92523517001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	ND	68.9	03/04/21 14:16	N2

LABORATORY CONTROL SAMPLE: 3183112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/kg	667	570	86	78-114	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183113 3183114

Parameter	Units	3183113		3183114		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Total Petroleum Hydrocarbons	mg/kg	477	3230	3310	1600	2220	35	53	78-114	32 M1,N2,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

QC Batch: 603326 Analysis Method: EPA 6010D
QC Batch Method: EPA 3050B Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92523517001

METHOD BLANK: 3178799 Matrix: Solid
Associated Lab Samples: 92523517001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	3.0	03/02/21 19:24	
Cadmium	mg/kg	ND	1.0	03/02/21 00:36	
Chromium	mg/kg	ND	1.0	03/02/21 00:36	
Copper	mg/kg	ND	4.0	03/04/21 18:29	
Lead	mg/kg	ND	2.5	03/02/21 19:24	
Molybdenum	mg/kg	ND	4.0	03/02/21 00:36	
Nickel	mg/kg	ND	2.0	03/02/21 00:36	
Phosphorus	mg/kg	ND	20.0	03/02/21 00:36	
Potassium	mg/kg	ND	20.0	03/02/21 00:36	
Selenium	mg/kg	ND	4.0	03/02/21 00:36	
Zinc	mg/kg	ND	2.0	03/02/21 19:24	

LABORATORY CONTROL SAMPLE: 3178800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	94.3	93.0	99	80-120	
Cadmium	mg/kg	94.3	93.6	99	80-120	
Chromium	mg/kg	94.3	96.9	103	80-120	
Copper	mg/kg	94.3	98.0	104	80-120	
Lead	mg/kg	94.3	94.8	101	80-120	
Molybdenum	mg/kg	94.3	96.2	102	80-120	
Nickel	mg/kg	94.3	95.2	101	80-120	
Phosphorus	mg/kg	94.3	95.1	101	80-120	
Potassium	mg/kg	94.3	98.4	104	80-120	
Selenium	mg/kg	94.3	92.1	98	80-120	
Zinc	mg/kg	94.3	91.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3178801 3178803

Parameter	Units	92524325001		3178801		3178803		% Rec	% Rec	% Rec	RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result					
Arsenic	mg/kg	7.3	121	117	119	121	92	97	75-125	1		
Cadmium	mg/kg	ND	121	117	117	116	97	99	75-125	1		
Chromium	mg/kg	19.3	121	117	136	134	97	99	75-125	1		
Copper	mg/kg	ND	121	117	119	118	99	101	75-125	1		
Lead	mg/kg	ND	121	117	139	142	112	119	75-125	2		
Molybdenum	mg/kg	ND	121	117	112	112	93	96	75-125	0		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake

Pace Project No.: 92523517

Parameter	Units	3178801		3178803		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92524325001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Nickel	mg/kg	8.7	121	117	150	152	117	123	75-125	1		
Phosphorus	mg/kg	305	121	117	393	462	72	135	75-125	16	M1	
Potassium	mg/kg	13500	121	117	15300	14000	1490	402	75-125	9	M1	
Selenium	mg/kg	ND	121	117	112	114	91	97	75-125	3		
Zinc	mg/kg	134	121	117	256	245	101	94	75-125	5		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

QC Batch: 602906 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL TCLP
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92523517001

METHOD BLANK: 3173475 Matrix: Water
Associated Lab Samples: 92523517001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.30	02/26/21 19:51	
Barium	mg/L	ND	0.50	02/26/21 19:51	
Cadmium	mg/L	ND	0.10	02/26/21 19:51	
Chromium	mg/L	ND	0.10	02/26/21 19:51	
Lead	mg/L	ND	0.25	02/26/21 19:51	
Selenium	mg/L	ND	0.40	02/26/21 19:51	
Silver	mg/L	ND	0.10	02/26/21 19:51	

LABORATORY CONTROL SAMPLE: 3176674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	10	9.3	93	80-120	
Barium	mg/L	10	9.2	92	80-120	
Cadmium	mg/L	10	9.3	93	80-120	
Chromium	mg/L	10	9.5	95	80-120	
Lead	mg/L	10	9.6	96	80-120	
Selenium	mg/L	10	10.2	102	80-120	
Silver	mg/L	10	9.3	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176675 3176676

Parameter	Units	92523436001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Arsenic	mg/L	ND	10	10	10.5	10.2	105	102	75-125	3				
Barium	mg/L	ND	10	10	9.7	9.7	97	97	75-125	0				
Cadmium	mg/L	ND	10	10	10.1	10.0	101	100	75-125	0				
Chromium	mg/L	ND	10	10	9.7	9.8	97	97	75-125	1				
Lead	mg/L	ND	10	10	9.7	9.8	97	98	75-125	1				
Selenium	mg/L	ND	10	10	10.7	10.4	106	102	75-125	3				
Silver	mg/L	ND	10	10	9.9	10.0	99	100	75-125	1				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

QC Batch: 602875	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury TCLP, ATL
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92523517001

METHOD BLANK: 3173475 Matrix: Water
Associated Lab Samples: 92523517001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0050	03/01/21 14:12	

LABORATORY CONTROL SAMPLE: 3176532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.017	0.017	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176530 3176531

Parameter	Units	92520503001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Mercury	mg/L	ND	0.017	0.017	0.017	0.016	93	88	75-125	6	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

QC Batch: 602882	Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B	Analysis Description: 7471 Mercury
Associated Lab Samples: 92523517001	Laboratory: Pace Analytical Services - Peachtree Corners, GA

METHOD BLANK: 3176568 Matrix: Solid
Associated Lab Samples: 92523517001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.24	03/02/21 13:01	

LABORATORY CONTROL SAMPLE: 3176569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.31	0.28	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3176570 3176571

Parameter	Units	92524170001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Mercury	mg/kg	ND	0.32	0.33	0.33	0.33	48	46	75-125	0	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

QC Batch: 603513 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV TCLP
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523517001

METHOD BLANK: 3179462 Matrix: Water
Associated Lab Samples: 92523517001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	03/02/21 11:08	
1,2-Dichloroethane	ug/L	ND	5.0	03/02/21 11:08	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/02/21 11:08	
2-Butanone (MEK)	ug/L	ND	10.0	03/02/21 11:08	
Benzene	ug/L	ND	5.0	03/02/21 11:08	
Carbon tetrachloride	ug/L	ND	5.0	03/02/21 11:08	
Chlorobenzene	ug/L	ND	5.0	03/02/21 11:08	
Chloroform	ug/L	ND	5.0	03/02/21 11:08	
Tetrachloroethene	ug/L	ND	5.0	03/02/21 11:08	
Trichloroethene	ug/L	ND	5.0	03/02/21 11:08	
Vinyl chloride	ug/L	ND	5.0	03/02/21 11:08	
1,2-Dichloroethane-d4 (S)	%	95	70-130	03/02/21 11:08	
4-Bromofluorobenzene (S)	%	101	70-130	03/02/21 11:08	
Toluene-d8 (S)	%	107	67-135	03/02/21 11:08	

LABORATORY CONTROL SAMPLE: 3179461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	54.3	109	70-132	
1,2-Dichloroethane	ug/L	50	49.9	100	70-130	
1,4-Dichlorobenzene	ug/L	50	50.8	102	70-130	
2-Butanone (MEK)	ug/L	100	99.8	100	70-133	
Benzene	ug/L	50	51.1	102	70-130	
Carbon tetrachloride	ug/L	50	52.6	105	70-130	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroform	ug/L	50	50.5	101	70-130	
Tetrachloroethene	ug/L	50	49.4	99	70-130	
Trichloroethene	ug/L	50	54.6	109	70-130	
Vinyl chloride	ug/L	50	43.1	86	59-142	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			97	67-135	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake

Pace Project No.: 92523517

Parameter	Units	3179463		3179464		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
1,1-Dichloroethene	ug/L	ND	50	50	51.8	53.7	104	107	70-158	4		
1,2-Dichloroethane	ug/L	ND	50	50	47.4	48.0	95	96	67-138	1		
1,4-Dichlorobenzene	ug/L	ND	50	50	50.4	51.9	101	104	70-133	3		
2-Butanone (MEK)	ug/L	ND	100	100	85.1	85.6	85	86	61-147	1		
Benzene	ug/L	ND	50	50	49.3	50.4	99	101	67-150	2		
Carbon tetrachloride	ug/L	ND	50	50	54.2	57.6	108	115	70-147	6		
Chlorobenzene	ug/L	ND	50	50	50.6	51.8	101	104	70-137	2		
Chloroform	ug/L	ND	50	50	50.0	53.4	100	107	70-144	7		
Tetrachloroethene	ug/L	ND	50	50	47.3	48.6	93	96	70-139	3		
Trichloroethene	ug/L	ND	50	50	49.9	54.3	100	109	70-149	9		
Vinyl chloride	ug/L	ND	50	50	41.7	41.5	83	83	55-172	1		
1,2-Dichloroethane-d4 (S)	%						100	102	70-130			
4-Bromofluorobenzene (S)	%						99	101	70-130			
Toluene-d8 (S)	%						101	101	67-135			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

QC Batch: 602641 Analysis Method: EPA 8270E
QC Batch Method: EPA 3510C Analysis Description: 8270E TCLP MSSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523517001

METHOD BLANK: 3173201 Matrix: Water
Associated Lab Samples: 92523517001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	50.0	02/25/21 17:11	
2,4,5-Trichlorophenol	ug/L	ND	50.0	02/25/21 17:11	
2,4,6-Trichlorophenol	ug/L	ND	50.0	02/25/21 17:11	
2,4-Dinitrotoluene	ug/L	ND	50.0	02/25/21 17:11	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	02/25/21 17:11	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	02/25/21 17:11	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	02/25/21 17:11	
Hexachlorobenzene	ug/L	ND	50.0	02/25/21 17:11	
Hexachloroethane	ug/L	ND	50.0	02/25/21 17:11	
Nitrobenzene	ug/L	ND	50.0	02/25/21 17:11	
Pentachlorophenol	ug/L	ND	100	02/25/21 17:11	
Pyridine	ug/L	ND	50.0	02/25/21 17:11	
2,4,6-Tribromophenol (S)	%	126	10-144	02/25/21 17:11	
2-Fluorobiphenyl (S)	%	99	10-130	02/25/21 17:11	
2-Fluorophenol (S)	%	83	10-130	02/25/21 17:11	
Nitrobenzene-d5 (S)	%	116	10-144	02/25/21 17:11	
Phenol-d6 (S)	%	64	10-130	02/25/21 17:11	
Terphenyl-d14 (S)	%	142	34-163	02/25/21 17:11	

LABORATORY CONTROL SAMPLE: 3175330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	345	69	18-130	
2,4,5-Trichlorophenol	ug/L	500	637	127	35-130	
2,4,6-Trichlorophenol	ug/L	500	593	119	31-130	
2,4-Dinitrotoluene	ug/L	500	600	120	37-136	
2-Methylphenol(o-Cresol)	ug/L	500	488	98	35-130	
3&4-Methylphenol(m&p Cresol)	ug/L	500	485	97	34-130	
Hexachloro-1,3-butadiene	ug/L	500	276	55	11-130	
Hexachlorobenzene	ug/L	500	626	125	38-130	
Hexachloroethane	ug/L	500	294	59	14-130	
Nitrobenzene	ug/L	500	518	104	36-130	
Pentachlorophenol	ug/L	1000	1450	145	23-149	
Pyridine	ug/L	500	325	65	10-130	
2,4,6-Tribromophenol (S)	%			141	10-144	
2-Fluorobiphenyl (S)	%			78	10-130	
2-Fluorophenol (S)	%			66	10-130	
Nitrobenzene-d5 (S)	%			93	10-144	
Phenol-d6 (S)	%			54	10-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

LABORATORY CONTROL SAMPLE: 3175330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Terphenyl-d14 (S)	%			145	34-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3175331 3175332

Parameter	92523680001		MS	MSD	MS		MSD		% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,4-Dichlorobenzene	ug/L	ND	500	500	422	443	84	89	10-130	5	
2,4,5-Trichlorophenol	ug/L	ND	500	500	709	721	142	144	10-143	2	M1
2,4,6-Trichlorophenol	ug/L	ND	500	500	680	671	136	134	10-147	1	
2,4-Dinitrotoluene	ug/L	ND	500	500	674	655	135	131	29-148	3	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	538	581	108	116	20-130	8	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	500	500	526	568	105	114	16-130	8	
Hexachloro-1,3-butadiene	ug/L	ND	500	500	409	404	82	81	10-130	1	
Hexachlorobenzene	ug/L	ND	500	500	626	654	125	131	29-130	5	M1
Hexachloroethane	ug/L	ND	500	500	393	402	79	80	10-130	2	
Nitrobenzene	ug/L	ND	500	500	586	604	117	121	25-130	3	
Pentachlorophenol	ug/L	ND	1000	1000	1330	1440	133	144	10-175	8	
Pyridine	ug/L	ND	500	500	348	412	70	82	10-130	17	
2,4,6-Tribromophenol (S)	%						132	138	10-144		
2-Fluorobiphenyl (S)	%						97	93	10-130		
2-Fluorophenol (S)	%						68	78	10-130		
Nitrobenzene-d5 (S)	%						104	108	10-144		
Phenol-d6 (S)	%						57	63	10-130		
Terphenyl-d14 (S)	%						138	143	34-163		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake

Pace Project No.: 92523517

QC Batch: 602385

Analysis Method: SW-846

QC Batch Method: SW-846

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92523517001

SAMPLE DUPLICATE: 3174089

Parameter	Units	35609501001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	22.1	18.9	15	N2

SAMPLE DUPLICATE: 3174090

Parameter	Units	92523696002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	92.2	92.2	0	N2

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

QC Batch: 603143	Analysis Method: EPA 9095B
QC Batch Method: EPA 9095B	Analysis Description: 9095 PAINT FILTER LIQUID TEST
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523517001

SAMPLE DUPLICATE: 3177941

Parameter	Units	92523634005 Result	Dup Result	RPD	Qualifiers
Free Liquids		Fail	Fail		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake

Pace Project No.: 92523517

QC Batch: 602171	Analysis Method: EPA 350.1 Rev 2.0 1993 Mod.
QC Batch Method: EPA 350.1 Rev 2.0 1993 Mod.	Analysis Description: 350.1 Ammonia
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523517001

METHOD BLANK: 3172791 Matrix: Solid

Associated Lab Samples: 92523517001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	9.6	02/24/21 14:42	

LABORATORY CONTROL SAMPLE: 3172792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	490	488	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172793 3172794

Parameter	Units	70161122001		3172793		3172794		% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Nitrogen, Ammonia	mg/kg	4670	2030	1990	6820	7020	107	119	90-110	3 M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

QC Batch: 603046	Analysis Method: EPA 351.2 Rev 2.0 1993
QC Batch Method: EPA 351.2 Rev 2.0 1993	Analysis Description: 351.2 TKN
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523517001

METHOD BLANK: 3177616 Matrix: Solid
Associated Lab Samples: 92523517001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	50.0	02/27/21 06:46	

LABORATORY CONTROL SAMPLE: 3177617

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1000	959	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3177618 3177619

Parameter	Units	3177618		3177619		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Nitrogen, Kjeldahl, Total	mg/kg	39100	4660	4660	59900	71100	444	684	90-110	17 M6,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

QC Batch: 602088 Analysis Method: EPA 353.2 Rev 2.0 1993
QC Batch Method: EPA 353.2 Rev 2.0 1993 Analysis Description: 353.2 Nitrate + Nitrite
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92523517001

METHOD BLANK: 3172585 Matrix: Solid
Associated Lab Samples: 92523517001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/kg	ND	4.0	02/24/21 01:17	
Nitrogen, Nitrite	mg/kg	ND	4.0	02/24/21 01:17	
Nitrogen, NO2 plus NO3	mg/kg	ND	4.0	02/24/21 01:17	

LABORATORY CONTROL SAMPLE: 3172586

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/kg	15	14.8	99	90-110	
Nitrogen, Nitrite	mg/kg	10	9.9	99	90-110	
Nitrogen, NO2 plus NO3	mg/kg	25	24.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3172587 3172588

Parameter	Units	92523533001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Nitrogen, Nitrate	mg/kg	ND	73.4	73.4	70.0	71.3	95	97	90-110	2			
Nitrogen, Nitrite	mg/kg	ND	49.1	49.1	46.7	46.5	96	95	90-110	0			
Nitrogen, NO2 plus NO3	mg/kg	ND	122	122	117	118	94	95	90-110	1			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Pelletizing Sludge Cake

Pace Project No.: 92523517

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Pelletizing Sludge Cake
Pace Project No.: 92523517

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92523517001	Pelletizing Sludge Cake	9071B	604217	9071B	604256
92523517001	Pelletizing Sludge Cake	EPA 3050B	603326	EPA 6010D	603392
92523517001	Pelletizing Sludge Cake	EPA 3010A	602906	EPA 6010D	602993
92523517001	Pelletizing Sludge Cake	EPA 7470A	602875	EPA 7470A	603236
92523517001	Pelletizing Sludge Cake	EPA 7471B	602882	EPA 7471B	603566
92523517001	Pelletizing Sludge Cake	EPA 3510C	602641	EPA 8270E	602732
92523517001	Pelletizing Sludge Cake	EPA 8260D	603513		
92523517001	Pelletizing Sludge Cake	SW-846	602385		
92523517001	Pelletizing Sludge Cake	EPA 9095B	603143		
92523517001	Pelletizing Sludge Cake	TKN+NO3+NO2 Calculation	603648		
92523517001	Pelletizing Sludge Cake	EPA 350.1 Rev 2.0 1993 Mod.	602171	EPA 350.1 Rev 2.0 1993 Mod.	602235
92523517001	Pelletizing Sludge Cake	EPA 351.2 Rev 2.0 1993	603046	EPA 351.2 Rev 2.0 1993	603083
92523517001	Pelletizing Sludge Cake	EPA 353.2 Rev 2.0 1993	602088	EPA 353.2 Rev 2.0 1993	602090

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



Water Reclamation Laboratory

688 Flint River Rd.

Jonesboro, GA. 30238

(770) 478-7496 Fax (770) 478-7301

Permit #: GA0038423 / GA02-008

Date	Time	Sample Description	Pres.	Analysis																		
				503 Parameters	Paint Filter	TPH (Total petroleum Hydrocarbons)	TCLP Metals	TCLP Volatiles	TCLP Semi-Volatiles	Total Metals	Total Phosphorus											
2-23-21	9:15	Pelletizing Sludge Cake	Ice	X	X	X	X	X	X	X	X	X										

Additional Information:

Sampled By: Tony Somerville	Date: 2-23-21	Time: 9:15
Relinquished By: Tony Somerville	Date: 2-23-21	Time: 10:02
Received By: Josh Ward	Date: 2-23-21	Time: 10:02
Relinquished By: Josh Ward	Date: 2-23-21	Time: 10:18
Received By: K. Williams	Date: 2/23/21	Time: 1158

WO#: 92523517

 92523517



Document Name:
Sample Condition Upon Receipt(SCUR)

Document Revised: October 28, 2020
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.07

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

Project #:

WO#: 92523517

PM: JS

Due Date: 03/04/21

CLIENT: GA-ClaytonNW

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/28/21 KRW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: THR233

Type of Ice: Wet Blue None

Cooler Temp: 3.8 Correction Factor: Add/Subtract (°C) -0.2

Temp should be above freezing to 6°C

Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	CLIENT PROVIDED SAMPLE CONTAINER
Correct Containers Used? -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: S	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.	Date and time sampled not present.
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

ATTACHMENT B

Special Waste Profile - Recertification



Disposal Facility: 3708 Pine Ridge Landfill GA

Waste Profile #:

Sales Rep #:

I. Generator Information

Generator Name: Clayton County Water Authority W.B. Casey WRF

Generator Site Address: 688 Flint River Rd

City: Jonesboro County: Clayton State: Georgia Zip: 30238

State ID/Reg No: State Approval/Waste Code: NAICS:

Generator Mailing Address (if different)

City: County: State: --Select State-- Zip:

Generator Contact Name: Jennifer Brandon Email: jennifer.brandon@ccwa.us

Phone Number: 770-302-3462 Ext: Fax Number:

II. Waste Stream Information

Name of Waste: Waste Activated Sludge

Check Section 1 or 2 below

- 1. **There has been a change** in the characteristics of the waste stream due to the following:
 - a. Change of a raw material used in the waste generating process.
 - b. Change in the waste generating process itself.
 - c. Change in a physical characteristic of the waste.
 - d. New information has been documented concerning the human health effects of exposure to the waste.

If any of these changes have occurred, a new profile sheet must be completed, and new analysis and/or SDS must be provided as appropriate.
- 2. **There have been no changes** that would alter the physical characteristics of the special waste stream.
Updated analytical may be required.

III. Representative Sample Certification

No Sample Taken
 Sample Taken Type of Sample

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent? Yes No

Sample Date:

Sample ID Numbers:

Special Waste Profile - Recertification



IV. Certification


I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original."

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

Jennifer Brandon	Environmental Compliance Manager	Clayton County Water Authority
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		8-25-20
Authorized Representative Signature		Date



COVER SHEET

Effective:
May 1, 2019

FOR

VENDOR INFORMATION FORM

*The enclosed Vendor Information Form is used by the Clayton County Water Authority (CCWA) for adding vendors to its financial database system that are awarded procurement or service work. This form has two parts. **Part 1** is designed to obtain general company information. Completion of this part is required to successfully add the vendors to CCWA's financial database system. **Part 2** is intended for information gathering purposes only. While information requested on Part 2 is optional to the vendors, it will help the CCWA obtain business ownership classification description from its vendors.*

Product(s) / Service(s) Provided: Select a NIGP code from the drop-down menu. If the code is unknown, you can search it by clicking the link provided on the form. Go to page 5. At the same time, press CTRL-F. This will open a small FIND box on your screen. In the box, type the key word that best describes your goods or services and click NEXT until you find the best fit. **Write down the 5 digit code number and go to the drop-down menu of this Form to select the code.**

For the purposes of executing this document, the following definitions apply:

- **Small Local Business Enterprise (SLBE)** is one that is at least 51% owned by one or more of the applicant individuals identified and a citizen or lawfully admitted permanent resident of the United States. Independently owned and operated with average annual gross receipts for the previous three years not exceeding (1) Construction Firms- \$18,250,000 (2) Professional Services Firms - \$5,500,000, Architectural Firms - \$3,750,000, Engineering Firms- \$7,500,000 and Goods & Services – less than 250 employees. Locally based, meaning located and operating in Clayton County or the ten (10) counties of Cherokee, Cobb, DeKalb, Douglas, Fayette, Fulton, Gwinnett, Henry, Rockdale and Spalding for at least one year prior to submitting application for certification.
- **A Woman Business Enterprise (WBE)** is one that is at least 51% owned by a Female, who also controls and operates the business, and is a permanent resident of the State of Georgia. The business must have a permanent, functioning office within the State of Georgia and must be lawfully licensed within the relevant jurisdiction.
- **A Minority Business Enterprise (MBE)** is one that is at least 51% owned by one of the minority groups identified below, who also control and operate the business, and are permanent residents of the State of Georgia. The business must have a permanent, functioning office within the State of Georgia and must be lawfully licensed within the relevant jurisdiction.

Minority Groups:

- Hispanic American
 - African American
 - Native American
 - Asian American
 - Pacific Islander
- **A Disabled Citizen Enterprise (DCE) of the US** refers to a business that is at least 51% owned by one or more disabled US citizens, who also control and operate the business, and are permanent residents of the State of Georgia. The business must have a permanent, functioning office within the State of Georgia, and must be lawfully licensed within the relevant jurisdiction.

Vendor Information Forms should be submitted to the Procurement Department.

**For questions related to the verification of certifications, please email
ccwa_slbe_program@ccwa.us**



VENDOR INFORMATION FORM

Effective 5/1/19

PART 1

Vendor Name: _____

Phone Number: _____ Fax #: _____

E-Mail Address: _____

Mailing Address: _____

Pay to Address: _____

Same as above

ACH is a way to move money between banks electronically. If you are interested in ACH payments, please complete all of the information below, and attach a copy of a voided check confirming your account information:

Bank Name: _____

Routing No.: _____ Account No.: _____

Account Name: _____

Remittance to Email Address: _____

Vendors should send all invoices to: [CCWA Accounts Payable@ccwa.us](mailto:CCWA_Accounts_Payable@ccwa.us)

Entity Type: Individual/Sole Proprietor Employee Owned Company Partnership
 Privately Held Corporation/LLC Publicly Owned Company Attorney
 Other ... _____

Social Security or Tax Identification Number (TIN): _____

Payment Terms: NET 30 DAYS Other: _____

PRODUCTS / SERVICES PROVIDED:
Provide NIGP Code(s)

For help finding NIGP Codes, click here: [NIGP Code Listing](#)

Required: A signed W-9 form must be submitted with this form.

PART 2

(For information gathering purposes only. You are not required to complete PART 2).

COMPANY'S OWNERSHIP CLASSIFICATION - See Cover Sheet for additional information.

To participate in the Small Local Business Program, please complete the following section:

SLBE Are you certified? Yes No Certifying Agency _____

County of Primary Business Located: _____

If you are certified as one of the following classifications, please check the appropriate box:

WBE MBE * DCE

* IF MBE, PLEASE Hispanic American African American Pacific Islander

CHOOSE ONE ONLY: Native American Asian American

If "Publicly Owned Company" has been chosen, no other designation (Hispanic American, African American, Etc.) may be chosen. This option will serve as your company's classification.

Vendor Information Forms should be submitted to ccwa_slbe_program@ccwa.us.

If your company's ownership is certified as SLBE, WBE, MBE, or DCE with the State of Georgia (GDOT) Certification Program, Clayton County, DeKalb County or with the City of Atlanta, please submit a copy of your business certification (including your phone, fax, and email address) to: ccwa_slbe_program@ccwa.us Certification from any other entity is not needed at this time.

Request for Taxpayer Identification Number and Certification

**Give Form to the
requester. Do not
send to the IRS.**

▶ Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	1	Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.		
	2	Business name/disregarded entity name, if different from above		
	3	Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.		4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i>
	<input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate		<input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____ Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.	
	<input type="checkbox"/> Other (see instructions) ▶ _____			
5	Address (number, street, and apt. or suite no.) See instructions.		Requester's name and address (optional)	
6	City, state, and ZIP code			
7	List account number(s) here (optional)			

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number									
				-			-		
or									
Employer identification number									
				-					

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ▶	Date ▶
------------------	----------------------------	--------

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting*, later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515, *Withholding of Tax on Nonresident Aliens and Foreign Entities*).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the instructions for Part II for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships*, earlier.

What is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note: ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or “doing business as” (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C corporation, or S corporation.** Enter the entity’s name as shown on the entity’s tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a “disregarded entity.” See Regulations section 301.7701-2(c)(2)(iii). Enter the owner’s name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner’s name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity’s name on line 2, “Business name/disregarded entity name.” If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box on line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3.

IF the entity/person on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation
• Individual • Sole proprietorship, or • Single-member limited liability company (LLC) owned by an individual and disregarded for U.S. federal tax purposes.	Individual/sole proprietor or single-member LLC
• LLC treated as a partnership for U.S. federal tax purposes, • LLC that has filed Form 8832 or 2553 to be taxed as a corporation, or • LLC that is disregarded as an entity separate from its owner but the owner is another LLC that is not disregarded for U.S. federal tax purposes.	Limited liability company and enter the appropriate tax classification. (P= Partnership; C= C corporation; or S= S corporation)
• Partnership	Partnership
• Trust/estate	Trust/estate

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys’ fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, write NEW at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester*, later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at www.SSA.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/Businesses and clicking on Employer Identification Number (EIN) under Starting a Business. Go to www.irs.gov/Forms to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to www.irs.gov/OrderForms to place an order and have Form W-7 and/or SS-4 mailed to you within 10 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.

You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.

You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions.

You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor ²
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee ¹
b. So-called trust account that is not a legal or valid trust under state law	The actual owner ¹
6. Sole proprietorship or disregarded entity owned by an individual	The owner ³
7. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	Give name and EIN of:
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity ⁴
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee

For this type of account:	Give name and EIN of:
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships*, earlier.

*Note: The grantor also must provide a Form W-9 to trustee of trust.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes.

Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at spam@uce.gov or report them at www.ftc.gov/complaint. You can contact the FTC at www.ftc.gov/idtheft or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see www.IdentityTheft.gov and Pub. 5027.

Visit www.irs.gov/IdentityTheft to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.