

## PROFESSIONAL SERVICES AGREEMENT

This **PROFESSIONAL SERVICES AGREEMENT** (the “Agreement”) is made and entered by and between **NEW BRAUNFELS UTILITIES**, a Texas municipal owned utility (“NBU”), and **RESIDUALS TRANSPORT CORPORATION**, a Texas corporation (the “Professional”).

Section 1. Term of Agreement. This Agreement will be effective on the latest date subscribed below, and will remain in full force and effect for a period of one (1) year from July 1, 2021, to June 30, 2022 (the “Initial Term”), unless terminated as otherwise provided pursuant to the terms and conditions of this Agreement. After the expiration of the Initial Term, this Agreement shall automatically renew for four (4) successive one-year terms (each, a “Renewal Term”), unless either party provides written notice of its intent to terminate the Agreement to the other party at least thirty (30) days prior to the expiration of any term. The Initial Term and any Renewal Term(s) are collectively referred to herein as the “Term.” Upon renewal, the terms and conditions of this Agreement will remain in full force and effect. In no event will the contract Terms extend beyond June 30, 2026.

Section 2. Scope of Services.

(A) The Professional shall perform the services described in Exhibit A (the “Services”) within the timeframe specified therein. The scope of work described in the Services constitutes the “Project.”

(B) The quality of Services provided hereunder shall be of the level of professional quality performed by professionals regularly rendering this type of service.

(C) The Professional shall perform the Services in compliance with all statutory, regulatory, and contractual requirements now or hereafter in effect as may be applicable to the rights and obligations set forth in the Agreement.

(D) The Professional may rely upon the accuracy of reports and surveys provided to it by NBU except when defects should have been apparent to a reasonably competent professional or when it has actual notice of any defects in the reports and surveys.

Section 3. Compensation.

(A) Amount. The Professional shall be paid the amount set forth in Exhibit B as described herein.

(B) Billing Period. NBU shall pay the Professional within thirty (30) days after receipt and approval of invoices and based upon work satisfactorily performed and completed to date. All invoices shall document and itemize all work completed to date. Each invoice statement shall include a record of time expended and work performed in sufficient detail to justify payment. In the event any uncontested portions of any invoice are not paid within thirty (30) days of receipt and approval of the Professional’s invoice, the Professional shall have the right to suspend work.

(C) Reimbursable Expenses. Any and all reimbursable expenses related to the Project shall be described in the Services defined in Exhibit A and accounted for in the total compensation amount in Exhibit B. If these items are not specifically accounted for in both Exhibit A and Exhibit B, NBU shall not be required to pay such amounts unless otherwise agreed to in writing by both parties or unless agreed to pursuant to Section 4 of this Agreement.

Section 4. Changes to the Project Work; Additional Work.

(A) Changes to Work. The Professional shall make such revisions to any work that has been completed as are necessary to correct any errors or omissions as may appear in such work. If NBU finds it necessary to make changes to previously satisfactorily completed work or parts thereof, the Professional shall make such revisions if requested and as directed by NBU and such services shall be considered as additional work and paid for as specified under the following paragraph.

(B) Additional Work. NBU retains the right to make changes to the Services at any time by a written order. Work that is clearly not within the general description of the Services under this Agreement must be approved in writing by NBU by supplemental agreement before the additional work is undertaken by the Professional. If the Professional is of the opinion that any work is beyond that contemplated in this Agreement and the Services described in Exhibit A and therefore constitutes additional work, the Professional shall promptly notify NBU of that opinion in writing. If NBU agrees that such work does constitute additional work, then NBU and the Professional shall execute a supplemental agreement for the additional work and NBU shall compensate the Professional for the additional work on the same basis of the rates for the Services contained in Exhibit B. If the changes deduct from the extent of the scope of work for the Services, the contract sum shall be adjusted accordingly. All such changes shall be executed under the conditions of the original Agreement. Any work undertaken by the Professional not previously approved as additional work shall be at risk of the Professional.

Section 5. Ownership of Documents. Upon completion or termination of this Agreement, all documents prepared by the Professional or furnished to the Professional by NBU shall be delivered to and become the property of NBU. All drawings, charts, calculations, plans, specifications and other data, including electronic files and raw data, prepared under or pursuant to this Agreement shall be made available, upon request, to NBU without restriction or limitation on the further use of such materials; however, such materials are not intended or represented to be suitable for reuse by NBU or others. Any reuse of the materials related to the Services without prior verification or adaptation by the Professional for the specific purpose intended will be at NBU's sole risk and without liability to the Professional. Where applicable, the Professional shall retain all pre-existing proprietary rights in the materials provided to NBU but shall grant to NBU a non-exclusive, perpetual, royalty-free license to use such proprietary information solely for the purposes for which the information was provided. The Professional may, at the Professional's expense, have copies made of the documents or any other data furnished to NBU under or pursuant to this Agreement.

Section 6. Personnel. The Professional shall provide adequate, experienced personnel, capable of and devoted to the successful completion of the Services to be performed under this Agreement. The Professional agrees that, upon commencement of the Services to be performed under this Agreement, key personnel will not be removed or replaced without prior written notice to NBU. If

key personnel are not available to perform the Services for a continuous period exceeding thirty (30) calendar days, or are expected to devote substantially less effort to the Services than initially anticipated, the Professional shall immediately notify NBU of same and shall replace such personnel with personnel possessing substantially equal ability and qualifications.

Section 7. Licenses; Materials. The Professional shall maintain in current status all federal, state, and local licenses and permits required for the Professional to perform the Services and operate its business. NBU has no obligation to provide the Professional, its employees or subcontractors any business registrations or licenses required to perform the Services described in this Agreement. NBU has no obligation to provide tools, equipment, or materials to the Professional.

Section 8. Performance Warranty. The Professional warrants that the Services provided under this Agreement shall conform to the professional standards performed by professionals regularly rendering this type of service.

Section 9. Indemnification. **TO THE FULLEST EXTENT PERMITTED BY LAW, THE PROFESSIONAL SHALL INDEMNIFY AND HOLD HARMLESS NBU AND EACH BOARD MEMBER, OFFICER, EMPLOYEE OR AGENT THEREOF (NBU AND ANY SUCH PERSON BEING HEREIN CALLED AN "INDEMNIFIED PARTY"), FOR, FROM AND AGAINST ANY AND ALL LOSSES, CLAIMS, DAMAGES, LIABILITIES, COSTS AND EXPENSES (INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEYS' FEES AND COURT COSTS) TO WHICH ANY SUCH INDEMNIFIED PARTY MAY BECOME SUBJECT, UNDER ANY THEORY OF LIABILITY WHATSOEVER ("CLAIMS"), INsofar AS SUCH CLAIMS (OR ACTIONS IN RESPECT THEREOF) RELATE TO, ARISE OUT OF, OR ARE CAUSED BY THE GOODS OR SERVICES PROVIDED BY THE PROFESSIONAL, ITS OFFICERS, EMPLOYEES, AGENTS, OR ANY TIER OF SUBCONTRACTOR IN THE PERFORMANCE OF THIS AGREEMENT. THE AMOUNT AND TYPE OF INSURANCE COVERAGE REQUIREMENTS SET FORTH BELOW SHALL IN NO WAY BE CONSTRUED AS LIMITING THE SCOPE OF THE INDEMNITY IN THIS SECTION.**

Section 10. Insurance.

(A) General.

- i. Insurer Qualifications. Without limiting any obligations or liabilities of the Professional, the Professional shall purchase and maintain, at its own expense, hereinafter stipulated minimum insurance with insurance companies authorized to do business in the State of Texas with an A.M. Best, Inc. rating of A- or above with policies and forms satisfactory to NBU. Failure to maintain insurance as specified herein may result in termination of this Agreement at NBU's option.
- ii. No Representation of Coverage Adequacy. By requiring insurance, NBU does not represent that coverage and limits will be adequate to protect the Professional. NBU reserves the right to review any and all of the insurance policies and/or endorsements cited in this Agreement, but has no obligation to do so. Failure to demand such evidence of full compliance with the insurance requirements set forth in this Agreement or failure to identify any insurance deficiency will not relieve the

Professional from, nor be construed or deemed a waiver of, its obligation to maintain the required insurance at all times during the performance of this Agreement.

- iii. Additional Insured. All insurance coverage and self-insured retention or deductible portions, except Workers' Compensation insurance and Professional Liability insurance, if applicable, shall name, to the fullest extent permitted by law for claims arising out of the performance of this Agreement, NBU, its agents, representatives, officers, directors, officials and employees as an Additional Insured as specified under the respective coverage sections of this Agreement.
- iv. Coverage Term. All insurance required herein shall be maintained in full force and effect until all the Services required to be performed under the terms of this Agreement are satisfactorily performed, completed and formally accepted by NBU, unless specified otherwise in this Agreement.
- v. Primary Insurance. The Professional's insurance shall be primary insurance with respect to performance of this Agreement and in the protection of NBU as an Additional Insured.
- vi. Claims Made. In the event any insurance policies required by this Agreement are written on a "claims made" basis, coverage will extend, either by keeping coverage in force or purchasing an extended reporting option, for three years after the conclusion of the term of this Agreement. Such continuing coverage will be evidenced by submission of annual certificates of insurance stating applicable coverage is in force and containing provisions as required herein for the three-year period.
- vii. Waiver. All policies (except for Professional Liability, if applicable), including Workers' Compensation insurance, will contain a waiver of rights of recovery (subrogation) against NBU, its agents, representatives, officials, officers and employees for any claims arising out of the Services performed by the Professional. The Professional shall arrange to have such subrogation waivers incorporated into each policy via formal written endorsement thereto.
- viii. Policy Deductibles and/or Self-Insured Retentions. The policies set forth in these requirements may provide coverage that contains deductibles or self-insured retention amounts. Such deductibles or self-insured retention shall not be applicable with respect to the policy limits provided to NBU. The Professional shall be solely responsible for any such deductible or self-insured retention amount.
- ix. Use of Subcontractors. The Professional shall not use subcontractors for all or any work under this Agreement without the prior written consent of NBU in its sole discretion. If any work under this Agreement is subcontracted in any way, the Professional shall execute written agreements with its subcontractors containing the indemnification provisions set forth in this Agreement and insurance requirements set forth herein protecting NBU and the Professional. The Professional shall be

responsible for executing any agreements with its subcontractors and obtaining certificates of insurance verifying the insurance requirements.

- x. Evidence of Insurance. Prior to commencing any the Services under this Agreement, the Professional shall provide NBU with suitable evidence of insurance in the form of certificates of insurance and a copy of the declaration page(s) of the insurance policies as required by this Agreement, issued by the Professional's insurance provider(s) as evidence that policies are in place with acceptable insurers as specified herein and provide the required coverage, conditions and limits of coverage specified in this Agreement and that such coverage and provisions are in full force and effect. Evidence of such insurance shall be attached as Exhibit C. Confidential information such as the policy premium may be redacted from the declaration page(s) of each insurance policy, provided that such redactions do not alter any of the information required by this Agreement. NBU will rely upon the certificates of insurance and declaration page(s) of the insurance policies as evidence of coverage but such acceptance and reliance will not waive or alter in any way the insurance requirements or obligations of this Agreement. If any of the policies required by this Agreement expire during the life of this Agreement, it will be the Professional's responsibility to forward renewal certificates and declaration page(s) to NBU thirty (30) days prior to the expiration date. All certificates of insurance and declarations required by this Agreement will be identified by referencing the RFP number and title or this Agreement. Additionally, certificates of insurance and declaration page(s) of the insurance policies submitted without referencing the appropriate RFP number and title or a reference to this Agreement will be subject to rejection and may be returned or discarded.

(B) Required Insurance Coverage. Any of the coverage set forth below may be waived by NBU in its sole discretion, but any such waiver must be signed by an authorized representative of NBU on or before the Effective Date of this Agreement.

- i. Commercial General Liability. The Professional shall maintain "occurrence" form Commercial General Liability insurance with an unimpaired limit of not less than \$1,000,000 for each occurrence and a \$2,000,000 General Aggregate Limit. The policy shall cover liability arising from premises, operations, independent contractors, products, completed operations, personal injury, and property damage. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, NBU, its agents, representatives, officers, officials and employees shall be cited as an Additional Insured. If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.
- ii. Vehicle Liability. The Professional shall maintain Business Automobile Liability insurance with a limit of \$1,000,000 each occurrence on the Professional's owned, hired and non-owned vehicles assigned to or used in the performance of the Services by the Professional under this Agreement. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, NBU, its agents,

representatives, officers, directors, officials and employees shall be cited as an Additional Insured. If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be “follow form” equal or broader in coverage scope than underlying insurance.

- iii. Workers’ Compensation and Employer’s Liability Insurance. The Professional shall maintain Workers’ Compensation insurance to cover the Professional’s employees engaged in the performance of the Services under this Agreement and shall also maintain Employers Liability Insurance of not less than \$1,000,000 for each accident, \$1,000,000 disease for each employee and \$1,000,000 disease policy limit.

(C) Cancellation and Expiration Notice. Insurance required herein shall not expire, be canceled, or be materially changed without thirty (30) days’ prior written notice to NBU.

#### Section 11. Termination.

(A) For NBU’s Convenience. This Agreement is for the convenience of NBU and, as such, may be terminated by NBU for any reason upon thirty (30) days’ written notice by NBU to the Professional. Upon termination for convenience, the Professional will be paid for the Services performed to the termination date less any offsets to which NBU may be entitled under the terms of this Agreement. By written notice to NBU, the Professional may suspend work if the Professional reasonably determines that working conditions at the site (outside the Professional’s control) are unsafe, or in violation of applicable laws, or in the event NBU has not made timely payment in accordance with this Agreement, or for other circumstances not caused by the Professional that are materially interfering with the normal progress of the work. The Professional’s suspension of work hereunder shall be without prejudice to any other remedy of the Professional at law or equity.

(B) For Cause. If either party violates any provision or fails to perform any obligation of this Agreement and such party fails to cure its nonperformance within thirty (30) days after written notice of nonperformance is given by the non-defaulting party, such party will be in default. In the event of such default, the non-defaulting party may terminate this Agreement immediately for cause and will have all remedies that are available to it at law or in equity including, without limitation, the remedy of specific performance. If the nature of the defaulting party’s nonperformance is such that it cannot reasonably be cured within thirty (30) days, then the defaulting party will have such additional period of time as may be reasonably necessary under the circumstances, provided the defaulting party immediately (i) provides written notice to the non-defaulting party and (ii) commences to cure its nonperformance and thereafter diligently continues to completion the cure of its nonperformance. In no event will any such cure period exceed ninety (90) days. Only one notice of nonperformance will be required during the term of this Agreement and in the event of a second breach or violation, the nondefaulting party may immediately terminate this Agreement without notice to the defaulting party. In the event of any termination for cause by NBU, payment will be made by NBU to the Professional for the undisputed portion of its fee due as of the termination date less any offsets to which NBU may be entitled under the terms of this Agreement.

(C) Non-Collusion. The Professional represents and warrants that the Professional has not given, made, promised or paid, nor offered to give, make, promise or pay any gift, bonus, commission, money or other consideration to any person as an inducement to or in order to obtain the work to be provided to NBU under this Agreement. If NBU determines that the Professional gave, made, promised, paid or offered any gift, bonus, commission, money, or other consideration to NBU or any of its officers, agents, or employees to secure this Agreement, NBU may elect to cancel this Agreement by written notice to the Professional. The Professional further agrees that the Professional shall not accept any gift, bonus, commission, money, or other consideration from any person (other than from NBU pursuant to this Agreement) for any of the Services performed by the Professional under or related to this Agreement. If any such gift, bonus, commission, money, or other consideration is received by or offered to the Professional, the Professional shall immediately report that fact to NBU and, NBU, at its sole option, may elect to cancel this Agreement by written notice to the Professional.

(D) Agreement Subject to Appropriation. This Agreement is subject to appropriation of funds. The provisions of this Agreement for payment of funds by NBU shall be effective when funds are appropriated for purposes of this Agreement and are actually available for payment. NBU shall be the sole judge and authority in determining the availability of funds under this Agreement and NBU shall keep the Professional fully informed as to the availability of funds for the Agreement. The obligation of NBU to make any payment pursuant to this Agreement is a current expense of NBU, payable exclusively from such annual appropriations, and is not a general obligation or indebtedness of NBU. If sufficient funds are not appropriated to pay the amounts as set forth in this Agreement during any immediately succeeding fiscal year, this Agreement shall terminate at the end of the then-current fiscal year and NBU and the Professional shall be relieved of any subsequent obligation under this Agreement.

## Section 12. Miscellaneous.

(A) Independent Contractor. The Professional acknowledges that the Professional is an independent contractor of NBU and is not an employee, agent, official or representative of NBU. The Professional shall not represent, either expressly or through implication, that the Professional is an employee, agent, official or representative of NBU. Income taxes, self-employment taxes, social security taxes and the like shall be the sole responsibility of the Professional.

(B) Governing Law; Venue. This Agreement and all of the transactions contemplated herein shall be governed by and construed in accordance with the laws of the State of Texas. The provisions and obligations of this Agreement are performable in Comal County, Texas such that exclusive venue for any action arising out of this Agreement shall be in Comal County, Texas.

(C) Compliance with Laws. The Professional shall comply with all federal, state and local laws, statutes, ordinances, rules and regulations, and the orders and decrees of any courts, administrative, or regulatory bodies in any matter affecting the performance of this Agreement, including, without limitation, worker's compensation laws, minimum and maximum salary and wage statutes and regulations, and licensing laws and regulations. When required, the Professional shall furnish satisfactory proof of compliance to NBU.

(D) Amendments. This Agreement may only be amended, modified, or supplemented by a written amendment signed by persons duly authorized to enter into contracts on behalf of NBU and the Professional.

(E) Provisions Required by Law. Each and every provision of law and any clause required by law to be in the Agreement shall be read and enforced as though it were included herein and, if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Agreement shall promptly be physically amended to make such insertion or correction.

(F) Severability. If any term or provision of this Agreement is held to be invalid, illegal, or unenforceable in any respect under applicable law, the legality, validity or enforceability of the remaining terms or provisions of this Agreement shall not be affected thereby, and this Agreement shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

(G) Entire Agreement; Interpretation; Parol Evidence. This Agreement and the related Exhibits constitute the entire agreement of the parties with respect to the subject matter, and all previous agreements, whether oral or written, entered into prior to this Agreement are hereby revoked and superseded thereby. No representations, inducements or oral agreements have been made by any of the parties except as expressly set forth in this Agreement. This Agreement shall be construed and interpreted according to its plain meaning, and no presumption shall be deemed to apply in favor of, or against the party drafting the Agreement.

(H) No Assignment. Neither party shall have the right to assign that party's interest in this Agreement without the prior written consent of the other party. Any purported assignment in violation of this Section shall be null and void.

(I) Subcontractors. The Professional shall not transfer any portion of the work related to the Services under this Agreement to any subcontractor without the prior written consent of NBU, which consent shall not be unreasonably withheld. The approval or acquiescence of NBU in the subletting of any work shall not relieve the Professional of any responsibility for work done by such subcontractor. Failure to pay subcontractors in a timely manner pursuant to any subcontract shall be a material breach of this Agreement by the Professional.

(J) Waiver. No waiver by any party of any of the provisions of this Agreement shall be effective unless explicitly set forth in writing and signed by the party so waiving. No waiver of any breach or violation of any term of this Agreement shall be deemed or construed to constitute a waiver of any other breach or violation, whether concurrent or subsequent, and whether of the same or of a different type of breach or violation. No failure to exercise, or delay in exercising, any right, remedy, power, or privilege arising from this Agreement shall operate or be construed as a waiver thereof; nor shall any single or partial exercise of any right, remedy, power, or privilege hereunder preclude any other or further exercise thereof or the exercise of any other right, remedy, power, or privilege.



(K) Attorneys' Fees. In the event either party brings any action for any relief, declaratory or otherwise, arising out of this Agreement or on account of any breach or default hereof, the prevailing party will be entitled to receive from the other party reasonable attorneys' fees and reasonable costs and expenses, which will be deemed to have accrued on the commencement of such action.

(L) Liens. All materials or services provided under this Agreement shall be free of all liens and, if NBU requests, a formal release of all liens shall be delivered to NBU.

(M) Offset.

- i. Offset for Damages. In addition to all other remedies at law or equity, NBU may offset from any money due to the Professional any amount the Professional owes to NBU for damages resulting from breach or deficiencies in performance or breach of any obligation under this Agreement, including but not limited to all costs, expenses, fines, fees, and charges associated with obtaining performance from alternative sources, shipping, handling, materials, equipment rental, travel expenses and associated costs.
- ii. Offset for Delinquent Fees or Taxes. NBU may offset from any money due to the Professional any amount the Professional owes to NBU for delinquent fees, transaction privilege taxes and property taxes, including any interest or penalties.

(N) Notices. Any notice or other communication required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been duly given if (i) delivered to the party at the address set forth below, (ii) deposited in the U.S. Mail, registered or certified, return receipt requested, to the address set forth below, or (iii) given to a recognized and reputable overnight delivery service, to the address set forth below:

If to NBU:

New Braunfels Utilities  
Attn: Director of Water Services  
263 Main Plaza  
New Braunfels, TX 78130

With copy to:

Purchasing Manager  
New Braunfels Utilities  
355 FM 306  
New Braunfels, TX 78130

If to the Professional:

Residuals Transport Corporation  
301 Main Plaza, Number 159  
New Braunfels, Texas 78130

or at such other address, and to the attention of such other person or officer, as any party may designate by providing thirty (30) days' prior written notice of such change to the other party in the manner set forth in this Section. Notices shall be deemed received (i) when delivered to the party, (ii) three business days after being placed in the U.S. Mail, properly addressed, with sufficient postage or (iii) the following business day after being given to a recognized overnight delivery service, with the person giving the notice paying all required charges and instructing the delivery service to deliver on the following business day. If a copy of a notice is also given to a party's counsel or other recipient, the provisions above governing the date on which a notice is deemed to have been received by a party shall mean and refer to the date on which the party, and not its counsel or other recipient to which a copy of the notice may be sent, is deemed to have received the notice.

(O) Confidentiality of Records. The Professional shall establish and maintain procedures and controls that are acceptable to NBU for the purpose of ensuring that information contained in its records or obtained from NBU or from others in carrying out the Professional's obligations under this Agreement shall not be used or disclosed by it, its agents, officers, or employees, except as required to perform the Professional's duties under this Agreement. Persons requesting such information should be referred to NBU. The Professional also agrees that any information pertaining to individual persons shall not be divulged other than to employees or officers of the Professional as needed for the performance of duties under this Agreement.

(P) Right to Audit. NBU shall have the right to examine and audit the books and records of the Professional with regard to the Services, or any subsequent changes, at any reasonable time. Such books and records shall be maintained in accordance with generally accepted principles of accounting and shall be adequate to enable determination of: (1) the substantiation and accuracy of any payments required to be made under this Agreement; and (2) compliance with the provisions of this Agreement.

(Q) Paragraph Headings; Construction. The paragraph headings contained in this Agreement are for convenience only and shall in no way enlarge or limit the scope or meaning of the various and several paragraphs hereof. Both parties have participated in the negotiation and preparation of this Agreement and this Agreement shall not be construed either more or less strongly against or for either party.

(R) Binding Effect. Except as limited herein, the terms and provisions of this Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, devisees, personal and legal representatives, successors and assigns.

(S) Gender. Within this Agreement, words of any gender shall be held and construed to include any other gender, and words in the singular number shall be held and construed to include the plural, unless the context otherwise requires.

(T) Multiple Counterparts. This Agreement may be executed in multiple counterparts, each of which shall be deemed an original, and all of which shall constitute but one and the same instrument.

(U) Exhibits. Except as specified in Subsection (V) of this Section, all exhibits to this Agreement are incorporated herein by reference for all purposes wherever reference is made to the same.

(V) Conflicting Terms. In the case of any conflicts between the terms of this Agreement and the Exhibits, the statements in the body of this Agreement shall govern. The Exhibits are intended to detail the technical scope of services, fee schedule, and the term of the contract only and shall not dictate Agreement terms.

(W) Relationship of Parties. Nothing contained in this Agreement shall be deemed or construed by the parties hereto or by any third party to create the relationship of principal and agent or of partnership or of joint venture or of any association whatsoever between the parties, it being expressly understood and agreed that no provision contained in this Agreement nor any act or acts of the parties hereto shall be deemed to create any relationship between the parties other than the relationship of independent parties contracting with each other solely for the purpose of effecting the provisions of this Agreement.

(X) No Third-Party Beneficiaries. This Agreement is for the sole benefit of the parties hereto and their respective assigns and nothing herein, express or implied, is intended to or shall confer upon any other person or entity any legal or equitable right, benefit, or remedy of any nature whatsoever under or by reason of this Agreement.

(Y) Non-Exclusive Contract. This Agreement is entered into with the understanding and agreement that it is for the sole convenience of NBU. NBU reserves the right to obtain like goods and services from another source when necessary.

Section 13. Force Majeure. If the performance of any covenant or obligation to be performed hereunder by any party is delayed as a result of circumstances that are beyond the reasonable control of such party (which circumstances may include, without limitation, pending litigation, acts of God, war, acts of civil disobedience, epidemic, pandemic, fire or other casualty, shortage of materials, adverse weather conditions (such as, by way of illustration and not of limitation, severe rain storms or below freezing temperatures, or tornados), labor action, strikes or similar acts, moratoriums or regulations or actions by governmental authorities), the time for such performance shall be extended by the amount of time of such delay, but no longer than the amount of time reasonably occasioned by the delay. The party claiming delay of performance as a result of any of the foregoing force majeure events shall deliver written notice of the commencement of any such delay resulting from such force majeure event not later than seven (7) days after the claiming party becomes aware of the same, and if the claiming party fails to so notify the other party of the occurrence of a force majeure event causing such delay and the other party shall not otherwise be

aware of such force majeure event, the claiming party shall not be entitled to avail itself of the provisions for the extension of performance contained in this subsection.

Section 14. Dispute Resolution. In accordance with the provisions of Subchapter I, Chapter 271 of the Texas Local Government Code, as amended, the parties agree that, prior to instituting any lawsuit or other proceeding arising from a dispute under this agreement, the parties shall first attempt to resolve the dispute by taking the steps described in this Section. First, the dissatisfied party shall deliver to the other party a written notice substantially describing the nature of the dispute, which notice shall request a written response to be delivered to the dissatisfied party not less than five (5) days after receipt of the notice of dispute. Second, if the response does not reasonably resolve the dispute, in the opinion of the dissatisfied party, the dissatisfied party shall give five (5) days' written notice to that effect to the other party whereupon each party shall appoint a person having authority over the activities of the respective parties who shall promptly meet, in person, in an effort to resolve the dispute. Third, if those persons cannot or do not resolve the dispute, then the parties shall each appoint a person from the highest tier of managerial responsibility within each respective party, who shall then promptly meet, in person, in an effort to resolve the dispute.

Section 15. Disclosure of Business Relationships/Affiliations; Conflict of Interest Questionnaire. The Professional represents that it is in compliance with the applicable filing and disclosure requirements of Chapter 176 of the Texas Local Government Code, as amended.

#### Section 16. Information Technology

(A) Limited Access. If necessary for the fulfillment of the Agreement, NBU may provide the Professional with non-exclusive, limited access to NBU's information technology infrastructure. The Professional understands and agrees to abide by NBU policies, standards, regulations and restrictions regarding access and usage of NBU's information technology infrastructure. The Professional shall reasonably enforce such policies, standards, regulations and restrictions with all the Professional's employees, agents or any tier of subcontractor granted access in the performance of this Agreement, and shall be granted and authorize only such access as may be necessary for the purpose of fulfilling the requirements of the Agreement. The Professional's employees, agents and subcontractors must receive prior, written approval from NBU before being granted access to NBU's information technology infrastructure and data and NBU, in its sole determination, shall determine accessibility and limitations thereto. The Professional agrees that the requirements of this Section shall be incorporated into all subcontractor agreements entered into by the Professional. It is further agreed that a violation of this Section shall be deemed to cause irreparable harm that justifies injunctive relief in court. A violation of this Section may result in immediate termination of this Agreement without notice.

(B) Data Confidentiality. All data, regardless of form, including originals, images and reproductions, prepared by, obtained by or transmitted to the Professional in connection with this Agreement is confidential, proprietary information owned by NBU. Except as specifically provided in this Agreement, the Professional shall not intentionally disclose data generated in the performance of the Services to any third party without the prior, written consent of NBU.

(C) Data Security. Personal identifying information, financial account information, or restricted NBU information, whether electronic format or hard copy, is confidential and must be secured and protected at all times to avoid unauthorized access. At a minimum, the Professional must encrypt or password-protect electronic files. This includes data saved to laptop computers, computerized devices or removable storage devices.

(D) Compromised Security. In the event that data collected or obtained by the Professional in connection with this Agreement is believed to have been compromised, the Professional shall notify NBU immediately. **THE PROFESSIONAL SHALL INDEMNIFY AND HOLD NBU HARMLESS FROM ANY CLAIMS RESULTING FROM THE PROFESSIONAL'S FAILURE TO COMPLY WITH ITS OBLIGATIONS UNDER THIS SECTION.**

(E) Survival. The obligations of the Professional under this Section shall survive the termination of this Agreement.

Section 17. Prohibition on Contracts with Companies Boycotting Israel. The Professional hereby verifies that it and its parent company, wholly-or majority owned subsidiaries, and other affiliates, if any, does not boycott Israel and, to the extent this Agreement is a contract for goods or services, will not boycott Israel during the term of this Agreement as described in Chapter 2271 of the Texas Government Code, as amended. The foregoing verification is made solely to comply with Chapter 2271.002 of the Texas Government Code, as amended, and to the extent such Section does not contravene applicable federal and State law. As used in the foregoing verification, "boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes. The Professional understands "affiliate" to mean an entity that controls, is controlled by, or is under common control with the Professional and exists to make a profit.

Section 18. Contracts with Companies Engaged in Business with Iran, Sudan or Foreign Terrorist Organizations Prohibited. The Professional represents that neither it nor any of its parent company, wholly-or majority-owned subsidiaries, and other affiliates is a company identified on a list prepared and maintained by the Texas Comptroller of Public Accounts under Section 2252.153 or Section 2270.0201, Texas Government Code, as amended, and posted on any of the following pages of such officer's internet website:

<https://comptroller.texas.gov/purchasing/docs/sudan-list.pdf>,  
<https://comptroller.texas.gov/purchasing/docs/iran-list.pdf>, or  
<https://comptroller.texas.gov/purchasing/docs/fto-list.pdf>.

The foregoing representation is made solely to comply with Section 2252.152, Texas Government Code, as amended, and to the extent such Section does not contravene applicable federal or State law and excludes the Professional and each of its parent company, wholly-or majority-owned subsidiaries, and other affiliates, if any, that the United States government has affirmatively declared to be excluded from its federal sanctions regime relating to Sudan or Iran or any federal sanctions regime relating to a foreign terrorist organization. The Professional understands

“affiliate” to mean an entity that controls, is controlled by, or is under common control with the Professional and exists to make a profit.

Section 19. Texas Public Information Act. The Professional recognizes that NBU is subject to the disclosure requirements of the Texas Public Information Act (the “PIA”). As part of its obligations within this Agreement, the Professional agrees, at no additional cost to NBU, to cooperate with NBU for any particular needs or obligations arising out of the NBU’s obligations under the PIA. This acknowledgement and obligation are in addition to and complimentary to the NBU’s audit rights in section 12(P).

This provision applies if the Agreement has a stated expenditure of at least \$1 million in public funds for the purchase of goods or services by NBU or results in the expenditure of at least \$1 million in public funds for the purchase of goods or services by NBU in a fiscal year of NBU.

The Professional must (1) preserve all contracting information related to the Agreement as provided by the records retention requirements applicable to NBU for the duration of the Agreement; (2) promptly provide to NBU any contracting information related to the Agreement that is in the custody or possession of the Professional on request of NBU; and (3) on completion of the Agreement, either:

- (i) provide at no cost to NBU all contracting information related to the Agreement that is in the custody or possession of the Professional; or
- (ii) preserve the contracting information related to the Agreement as provided by the records retention requirements applicable to NBU.

The requirements of Subchapter J, Chapter 552, Texas Government Code, may apply to this Agreement and the Professional agrees that the Agreement can be terminated if the Professional knowingly or intentionally fails to comply with a requirement of that subchapter.

Section 20. Electronic Signatures. Pursuant to Chapter 322 of the Texas Business and Commerce Code, as amended, the parties agree to the use of electronic signatures herein and that the use of an electronic signature, whether digital or encrypted, is intended to have the same force and effect as a manual signature. Electronic signature means any electronic sound, symbol or process attached to or logically associated with a record and executed and adopted by a party with the intent to sign such record, including facsimile or e-mail electronic signatures. Each party further agrees that if it agrees to conduct a transaction by electronic means in this Agreement, it may refuse to conduct other transactions by electronic means and that such right may not be waived by this Agreement.

*(The remainder of this page intentionally left blank)*

**IN WITNESS WHEREOF**, the parties hereto have executed this Agreement on this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

**NBU:**  
**NEW BRAUNFELS UTILITIES,**  
a Texas municipal owned utility

By: Ian Taylor Digitally signed by Ian Taylor  
Date: 2021.07.12 14:01:15  
-05'00'  
Name: Ian Taylor  
Title: CEO

**PROFESSIONAL:**  
**RESIDUALS TRANSPORT CORPORATION,**  
a Texas corporation

By: Charles Hooker  
Name: Charles Hooker  
Title: President

## Exhibit A

### Services

The Professional shall provide biosolids and debris disposal services for NBU's water and wastewater treatment facilities, in conformance with specification, "48 00 00 Biosolids Disposal," attached as Exhibit D (the "Services").

#### **PROJECT SPECIFIC INFORMATION**

The Professional shall provide containers and equipment by site location as described herein. As NBU grows and facility improvements are brought online, these sites may vary over time.

##### 1) Water Plant

###### **a) Surface Water Treatment Facilities**

- i) Address: 2356 Gruene Road, New Braunfels, TX
- ii) Provided Roll-off Container(s):
  - (1) Size: 25 cubic-yard (cu-yd)
    - (a) Quantity: 3
    - (b) Locations/Uses:
      - (i) Wedge wire filters
    - (c) Approximate Number of Loads per Year: 11
- iii) Typical solids content for dewatered sludge: 8%
- iv) Provided Equipment:
  - (1) None

##### 2) Wastewater Plants

###### **a) North Kuehler Wastewater Treatment Facility**

- i) Address: 1922 Kuehler Road, New Braunfels, TX
- ii) Provided Container(s):
  - (1) Size: 1 cubic-yard (cu-yd)
    - (a) Quantity of Roll-off containers: 3
    - (b) Locations/Uses:
      - (i) 2 at fine screens and 1 at headworks
- iii) Provided Equipment:
  - (1) None

###### **b) South Kuehler Wastewater Treatment Facility**

- i) Address: 2055 Coco Lane, New Braunfels, TX
- ii) Provided Roll-off Container(s):
  - (1) Size: 25 cubic-yard (cu-yd)
    - (a) Quantity: 6 (2 roll-off containers and 4-dewatering roll-off containers)
    - (b) Locations/Uses:
      - (i) Collection system vac-truck dumping station and headworks debris
    - (c) Approximate Number of Loads per Year: 131
      - (i) Typical solids content for dewatered sludge: N/A Debris



- (d) Vendor responsible for cleaning dewatering boxes at dewatering station before installation of liners
- (2) Size: 32 cubic-yard (cu-yd) trailer
  - (a) Quantity: 5
  - (b) Type: Aluminum End dump
  - (c) Locations/Uses:
    - (i) Belt press (Services North and South Kuehler)
      - 1. Loads not to exceed 80,000 pounds
  - (d) Approximate Number of Loads per Year: 247
    - (i) Typical solids content for dewatered sludge: 14 to 18%
- (3) Size: 1 cubic-yard (cu-yd)
  - (a) Quantity: 3
  - (b) Locations/Uses:
    - (i) Fine screens (1) and headworks (2)
- iii) Provided Equipment:
  - (1) Two Yard Mules or equivalent:
  - (2) One scissor lift
- c) Gruene Road Water Reclamation Facility**
  - i) Address: 1835 Gruene Road, New Braunfels, TX
  - ii) Provided Container(s):
    - (1) Size: 15 cubic-yard (cu-yd)
      - (a) Quantity of containers: 1
      - (b) Type: Roll off Steel
      - (c) Locations/Uses:
        - (i) Headworks
      - (d) Approximate Number of Loads per Year: 52
        - (i) Typical solids content for dewatered sludge: N/A Debris
    - (2) Size: 32 cubic-yard (cu-yd)
      - (a) Quantity of trailers: 2
      - (b) Type: Aluminum End dump
      - (c) Locations/Uses:
        - (i) Belt press
          - 1. Loads not to exceed 80,000 pounds
      - (d) Approximate Number of Loads per Year: 100
        - (i) Typical solids content for dewatered sludge: 14 to 18%
    - (3) Size: 1 cubic-yard (cu-yd)
      - (a) Quantity of containers: 1
      - (b) Type: Portable dumpster
      - (c) Locations/Uses:
        - (i) Fine screens
  - iii) Provided Equipment:
    - (1) Yard Mule: One

**d) McKenzie Water Reclamation Facility**

- i) Address: 400 Elley Lane, New Braunfels, TX
- ii) Provided Container(s):
  - (1) Size: 15 cubic-yard (cu-yd)
    - (a) Quantity of containers: 1
    - (b) Type: Roll off Steel
    - (c) Locations/Uses:
      - (i) Headworks
    - (d) Approximate Number of Loads per Year: 52
      - (i) Typical solids content for dewatered sludge: N/A Debris/Grit
      - (ii) sludge: 14 to 18%
  - (2) Size: 32 cubic-yard (cu-yd)
    - (a) Quantity of trailer: 2
    - (b) Type: Aluminum End dump
    - (c) Locations/Uses:
      - (i) Belt press
        - 1. Loads not to exceed 80,000 pounds
    - (d) Approximate Number of Loads per Year: 106
      - (i) Typical solids content for dewatered sludge: 14 to 18%
  - (3) Size: 1 cubic-yard (cu-yd)
    - (a) Quantity of containers: 1
    - (b) Type: Portable dumpster
    - (c) Locations/Uses:
      - (i) Fine screens
- iii) Provided Equipment:
  - (1) One Yard Mule or equivalent to

**NBU CONTRIBUTION TO PROJECT**

- 1) NBU shall provide
  - a) all customer end-point address locations and access information as needed (i.e. gate codes for any locked gates); and
  - b) contact information for NBU Control Center and main points of contact for the project.

Exhibit B

Compensation

NBU shall pay the Professional for the Services under this Agreement a total compensation not to exceed \$858,000 for the initial one-year term, \$897,700 for the second one-year term, \$942,485 for the third one-year term, \$989,458 for the fourth one-year term, and \$1,038,732 for the fifth one-year term, for a total amount not to exceed \$4,726,375 for the duration of the Agreement.

NBU shall pay the Professional a fuel surcharge in accordance with the chart below:

<b>Fuel Price</b>	<b>Surcharge</b>	<b>End Dump Load</b>	<b>Roll off container</b>
\$3.73 and below	None	\$1,150	\$830
\$3.76 - \$4.00	\$10/Load	\$1,160	\$840
\$4.01-\$4.25	\$15/Load	\$1,165	\$845
\$4.26-\$4.50	\$20/Load	\$1,170	\$850
\$4.51-\$4.75	\$25/Load	\$1,175	\$855

If the Professional assesses any fuel charges pursuant to this Exhibit, these charges shall be included and not in addition to the not to exceed amounts specified herein.

Exhibit C  
Evidence of Insurance

Exhibit D

Technical Specification 48 00 00

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43

**TECHNICAL SPECIFICATION 48 00 00**  
**BIOSOLIDS DISPOSAL SERVICES**

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Section Includes:
  - 1. Biosolids haul and disposal services in accordance with TCEQ and State requirements.
  - 2. Debris disposal services for debris accumulated in the treatment of water and wastewater.
  - 3. Provide end dump trailers, roll-off containers and equipment in accordance with the requirements.

**1.2 PRICE AND PAYMENT PROCEDURES**

- A. Measurement and Payment
  - 1. Disposal Services
    - a. Measurement
      - 1) Measurement for Disposal Services shall be by each load for various sizes and types as specified in the bid form.
    - b. Payment
      - 1) The work performed and the equipment and materials furnished in accordance with Biosolids Disposal Services shall be paid for at the unit price bid per each load for various trailer/container size and location as specified in the bid form.
    - c. The respondents shall include in the bid price:
      - 1) Delivery of Trailers/Containers and equipment;
      - 2) Trailer/Containers and Equipment of various locations;
      - 3) Drop-off of Empty Trailer/Container;
      - 4) Pick-up and disposal of Full Container;
  - 2. Transfer of Materials
    - a. Measurement
      - 1) Measurement for Transfer Services shall be by each load for various sizes to the locations specified in the bid form.
    - b. Payment
      - 1) The work performed and the equipment and materials furnished in accordance with Transfer Services shall be paid for at the unit price bid per each load for various container size and location as specified in the bid form.
    - c. The respondents shall include in the bid price:
      - 1) Pick-up of full container
      - 2) Transfer of full container materials to another container
      - 3) Return of empty container to original site or location

**1.3 REFERENCES**

- A. Reference Standards

1 1. Texas Administrative Code (30 TAC) – TCEQ Administered

2 a. Section 312 – Sludge Use, Disposal, and Transportation

3 **1.4 ADMINISTRATIVE REQUIREMENTS**

4 A. Biosolids Reports

- 5 1. A report will be prepared for all disposal actives including:  
6 a. amounts (volume and weight)  
7 b. times and dates of pick-up  
8 c. location of pick-up  
9 d. location and permit # of disposal site  
10 e. Any other pertinent information.

11 **1.5 FIELD LOCATIONS**

12 A. Delivery

- 13 1. Respondent is responsible to deliver to locations as specified in the scope of  
14 service.

15 **1.6 SUBMITTALS**

16 A. All submittals shall be in accordance with Owner Requirements

17 B. All submittals shall be approved by the Owner prior to delivery.

18 **1.7 QUALITY ASSURANCE**

19 A. Qualifications

- 20 1. NBU provided recent annual biosolids testing for reference and will provide  
21 updated results of annual biosolids testing, upon request.  
22 2. Minimum Qualifications  
23 a. Five (5) years or more years in business  
24 b. Three (3) similar services contracts on-going or completed, provide references

25 B. Container

- 26 1. Provide container/trailers and appurtenance inspection and testing certification in  
27 accordance with the AWWA, Chlorine Institute's and DOT requirements  
28 a. The Owner may reject part or all the load if:  
29 1) any containers or appurtenance does not appear to meet these requirements  
30 stated above;  
31 2) is partially filled;  
32 3) overfilled; or  
33 4) any other condition the Owner deems unsafe.

34 **1.8 ACTION SUBMITTALS/INFORMATIONAL SUBMITTALS**

35 A. Product Data and Shop Drawings

- 36 1. Container specification/information  
37 2. Container testing data/certification

38 B. Driver safety training certification

39 C. Affidavit of Compliance for each order/delivery

- 1 D. Disposal site permit/approval information in accordance with State/TCEQ  
2 requirements.

3 **PART 2 - PRODUCTS**

4 **2.1 EQUIPMENT**

5 A. Containers/Trailers

- 6 1. Use and condition  
7 a. All containers should be suitable for containing wastewater biosolids and  
8 related materials as specified  
9 b. All containers should be in good working conditions and free of defects issues.  
10 2. Size and Type  
11 a. 32-yard trailer  
12 1) Type: Aluminum end dump Trailer  
13 b. 15-yard and 25-yard containers  
14 1) Steel roll-off type containers  
15 c. 1-yard Containers  
16 1) Steel dumpster with pick-up slots

17 B. Equipment

- 18 1. Yard Mule/Terminal Tractor  
19 a. Provide a vehicle capable of hooking up and moving 32-yard end dump trailers  
20 at Owner's facilities.  
21 2. Scissor Lift/Aerial Work Platform  
22 a. Provide an aerial lift for the purpose of checking container volumes.  
23 3. Equipment generally should be in good repair and working order.

24 **PART 3 - EXECUTION**

25 **3.1 BIOSOLIDS HANDLING AND DISPOSAL**

- 26 A. Provide all personnel and equipment needed to facilitate disposal of biosolids.  
27 B. Coordinate pick-up and delivery of Containers and Equipment with NBU's contact  
28 person.  
29 C. Complete any on-site transfers of 1-yard containers to larger containers, if required.  
30 D. Ensure no mixing of materials of dissimilar types.  
31 E. Complete any site transfers (McKenzie/Gruene), if required.  
32 F. Drop-off replacement containers.  
33 G. Pick-up full biosolids containers and dispose of at a TCEQ permitted location.  
34 1. A full container shall be considered full at the following:  
35 a. 32- yard container:  
36 1) Full at 30-yards or more unless certified full by NBU Staff  
37 b. 25-yard container:  
38 1) Full at 23-yards or more unless certified full by NBU Staff



1 **3.2 SCHEDULING**

- 2 A. Hauling a full container load will be at the request of NBU staff. Although a standard  
3 schedule is anticipated, deviations from the schedule will require NBU staff approval.
- 4 B. Due to disposal circumstances, pickups are normally done on weekdays. However,  
5 emergency or weather-related situations or land disposal site restrictions may require  
6 weekend hauling.

7 **3.3 EQUIPMENT AND TRAINING**


- 8 A. Provide training for NBU on an annual basis, if needed, on operation of provided  
9 equipment
- 10 B. Provide specified equipment to remain on site for duration of annual agreement at each  
11 site.
- 12 C. Respond to repairs and maintenance of the equipment as needed to ensure continuous  
13 operation of facilities.

Exhibit E  
Biosolids Analysis

# POLLUTION CONTROL SERVICES



## Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Trish Soechting New Braunfels Utilities P.O. Box 310289 New Braunfels, TX 78131-0289	Project Name: Sample ID: SKSTP Sludge 05042038 Matrix: Sludge Date/Time Taken: 05/04/2020 0939	PCS Sample #: 595416 Date/Time Received: 05/06/2020 13:40 Report Date: 05/27/2020 Approved by: 

Page 1 of 1

 Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
TCLP-Full	See Attached					Pace Analytical Services - Dallas

**Quality Statement:** All supporting quality control data adhered to data quality objectives and test results meet the requirements of NELAP unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

These analytical results relate only to the sample tested.  
All data is reported on an "As Is" basis unless designated as "Dry Wt."  
RL = Reporting Limits

Web Site: [www.peslab.net](http://www.peslab.net)  
e-mail: [chuck@peslab.net](mailto:chuck@peslab.net)

Toll Free 800-880-4616

1532 Universal City Blvd, Suite 100  
Universal City, TX 78148-3318

210-340-0343

FAX # 210-658-7903

This report cannot be reproduced or duplicated, except in full, without prior written consent from Pollution Control Services.



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Summary of Compounds Detected

<b>595416</b>	<b>Collect Date</b>	05/04/2020 09:39	<b>LAB ID</b>	22005122201
	<b>Receive Date</b>	05/12/2020 09:42	<b>Matrix</b>	Solid

EPA 1311/6020B

CAS#	Parameter	Result	LOQ	Reg Limit	Units
7440-39-3	Barium	0.12	0.10	100	mg/L

<b>595418</b>	<b>Collect Date</b>	05/04/2020 10:48	<b>LAB ID</b>	22005122203
	<b>Receive Date</b>	05/12/2020 09:42	<b>Matrix</b>	Solid

EPA 1311/8270C

CAS#	Parameter	Result	LOQ	Reg Limit	Units
1319-77-3	Cresols	0.382	0.1000	200	mg/L
1319-77-3MP	m,p-Cresol	0.382	0.0500	200	mg/L

<b>595419</b>	<b>Collect Date</b>	05/04/2020 11:40	<b>LAB ID</b>	22005122204
	<b>Receive Date</b>	05/12/2020 09:42	<b>Matrix</b>	Solid

EPA 1311/6020B

CAS#	Parameter	Result	LOQ	Reg Limit	Units
7440-39-3	Barium	0.39	0.10	100	mg/L

<b>595420</b>	<b>Collect Date</b>	05/05/2020 09:45	<b>LAB ID</b>	22005122205
	<b>Receive Date</b>	05/12/2020 09:42	<b>Matrix</b>	Solid

EPA 1311/8270C

CAS#	Parameter	Result	LOQ	Reg Limit	Units
1319-77-3	Cresols	0.137	0.1000	200	mg/L
1319-77-3MP	m,p-Cresol	0.137	0.0500	200	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595416</b>	Collect Date	05/04/2020 09:39	LAB ID	22005122201
	Receive Date	05/12/2020 09:42	Matrix	Solid

#### EPA 1311/8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/13/2020 14:30	683617	EPA 1311(TCLP)	100	05/15/2020 14:24	SMS	683802

CAS#	Parameter	Result	LOQ	Reg Limit	Units
75-35-4	1,1-Dichloroethene	<0.500	0.500	0.70	mg/L
107-06-2	1,2-Dichloroethane	<0.250	0.250	0.50	mg/L
78-93-3	2-Butanone	<0.500	0.500	200	mg/L
71-43-2	Benzene	<0.250	0.250	0.50	mg/L
56-23-5	Carbon tetrachloride	<0.250	0.250	0.50	mg/L
108-90-7	Chlorobenzene	<0.500	0.500	100	mg/L
67-66-3	Chloroform	<0.500	0.500	6	mg/L
127-18-4	Tetraachloroethene	<0.500	0.500	0.70	mg/L
79-01-6	Trichloroethene	<0.250	0.250	0.50	mg/L
75-01-4	Vinyl chloride	<0.100	0.100	0.20	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5	5.14	mg/L	103	62 - 130
1868-53-7	Dibromofluoromethane	5	4.83	mg/L	97	65 - 127
2037-26-5	Toluene d8	5	5.21	mg/L	104	71 - 134
17060-07-0	1,2-Dichloroethane-d4	5	4.81	mg/L	96	62 - 127

#### EPA 1311/8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/15/2020 06:30	683768	EPA 3510C	1	05/15/2020 16:32	DLB	683785

CAS#	Parameter	Result	LOQ	Reg Limit	Units
106-46-7	1,4-Dichlorobenzene	<0.0500	0.0500	7.50	mg/L
95-95-4	2,4,5-Trichlorophenol	<0.0500	0.0500	400	mg/L
88-06-2	2,4,6-Trichlorophenol	<0.0500	0.0500	2	mg/L
121-14-2	2,4-Dinitrotoluene	<0.0100	0.0100	0.13	mg/L
1319-77-3	Cresols	<0.1000	0.1000	200	mg/L
118-74-1	Hexachlorobenzene	<0.0100	0.0100	0.13	mg/L
87-68-3	Hexachlorobutadiene	<0.0500	0.0500	0.50	mg/L
67-72-1	Hexachloroethane	<0.0500	0.0500	3	mg/L
1319-77-3MP	m,p-Cresol	<0.0500	0.0500	200	mg/L
98-95-3	Nitrobenzene	<0.0500	0.0500	2	mg/L
95-48-7	o-Cresol	<0.0500	0.0500	200	mg/L
87-86-5	Para-chlorophenol	<0.0500	0.0500	100	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595416</b>	Collect Date	05/04/2020 09:39	LAB ID	22005122201
	Receive Date	05/12/2020 09:42	Matrix	Solid

#### EPA 1311/8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/15/2020 06:30	683768	EPA 3510C	1	05/15/2020 16:32	DLB	683785

CAS#	Parameter	Result	LOQ	Reg Limit	Units
110-86-1	Pyridine	<0.0500	0.0500	5	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	0.25	.208	mg/L	83	44 - 120
321-60-8	2-Fluorobiphenyl	0.25	.208	mg/L	83	44 - 119
1718-51-0	Terphenyl-d14	0.25	.234	mg/L	94	50 - 134
4165-62-2	Phenol-d5	0.50	.158	mg/L	32	10 - 120
367-12-4	2-Fluorophenol	0.50	.23	mg/L	46	19 - 119
118-79-6	2,4,6-Tribromophenol	0.50	.458	mg/L	92	43 - 140

#### EPA 1311/8081B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 11:00	683721	EPA 3510C	1	05/14/2020 18:49	TLS	683930

CAS#	Parameter	Result	LOQ	Reg Limit	Units
57-74-9	Chlordane (Technical)	<0.00250	0.00250	0.03	mg/L
72-20-8	Endrin	<0.00100	0.00100	0.02	mg/L
58-89-9	gamma-BHC (Lindane)	<0.000500	0.000500	0.40	mg/L
76-44-8	Heptachlor	<0.000500	0.000500	0.0080	mg/L
1024-57-3	Heptachlor epoxide	<0.000500	0.000500	0.0080	mg/L
72-43-5	Methoxychlor	<0.000500	0.000500	10	mg/L
8001-35-2	Toxaphene	<0.00250	0.00250	0.50	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
877-09-3	Tetrachloro-m-xylene	0.0050	.00444	mg/L	89	44 - 124
2051-24-3	Decachlorobiphenyl	0.0050	.0038	mg/L	76	30 - 139

#### EPA 1311/8151A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/18/2020 08:25	683896	EPA 1311/8151A	1	05/21/2020 21:57	MFS	684311

CAS#	Parameter	Result	LOQ	Reg Limit	Units
93-72-1	2,4,5-TP (Silvex)	<0.00500	0.00500	1	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595416</b>	<b>Collect Date</b>	05/04/2020 09:39	<b>LAB ID</b>	22005122201
	<b>Receive Date</b>	05/12/2020 09:42	<b>Matrix</b>	Solid

#### EPA 1311/8151A (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/18/2020 08:25	683896	EPA 1311/8151A (Continued)	1	05/21/2020 21:57	MFS	684311

CAS#	Parameter	Result	LOQ	Reg Limit	Units
94-75-7	2,4-D	<0.00500	0.00500	10	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
19719-28-9	DCAA	0.02	.0124	mg/L	62	18 - 136

#### EPA 1311/6020B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 10:00	683661	EPA 3010A	10	05/20/2020 20:41	LWZ	684143

CAS#	Parameter	Result	LOQ	Reg Limit	Units
7440-38-2	Arsenic	<0.10	0.10	5	mg/L
7440-39-3	Barium	0.12	0.10	100	mg/L
7440-43-9	Caesium	<0.10	0.10	1	mg/L
7440-47-3	Chromium	<0.10	0.10	5	mg/L
7439-92-1	Lead	<0.10	0.10	5	mg/L
7782-49-2	Selenium	<0.10	0.10	1	mg/L
7440-22-4	Silver	<0.10	0.10	5	mg/L

#### EPA 1311/7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 08:00	683665	EPA 7470A	1	05/14/2020 13:17	TJR	683706

CAS#	Parameter	Result	LOQ	Reg Limit	Units
7439-97-6	Mercury	<0.0020	0.0020	0.20	mg/L

# POLLUTION CONTROL SERVICES



## Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Trish Soechting New Braunfels Utilities P.O. Box 310289 New Braunfels, TX 78131-0289	Project Name: Sample ID: NKSTP Sludge 05042039 Matrix: Sludge Date/Time Taken: 05/04/2020 0942	PCS Sample #: 595417 Date/Time Received: 05/06/2020 13:40 Report Date: 05/27/2020 Approved by: <i>Chuck Wallgren</i> Chuck Wallgren, President

Page 1 of 1

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
TCLP-Full	See Attached					Pace Analytical Services - Dallas

**Quality Statement:** All supporting quality control data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

These analytical results relate only to the sample tested.  
 All data is reported on an "As Is" basis unless designated as "Dry Wt."  
 RL = Reporting Limits





Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

# Sample Results

<b>595417</b>	<b>Collect Date</b>	05/04/2020 09:42	<b>LAB ID</b>	22005122202
	<b>Receive Date</b>	05/12/2020 09:42	<b>Matrix</b>	Solid

## EPA 1311/8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/13/2020 14:30	683617	EPA 1311(TCLP)	100	05/15/2020 14:49	SMS	683802

CAS#	Parameter	Result	LOQ	Reg Limit	Units
75-35-4	1,1-Dichloroethene	<0.500	0.500	0.70	mg/L
107-06-2	1,2-Dichloroethane	<0.250	0.250	0.50	mg/L
78-93-3	2-Butanone	<0.500	0.500	200	mg/L
71-43-2	Benzene	<0.250	0.250	0.50	mg/L
56-23-5	Carbon tetrachloride	<0.250	0.250	0.50	mg/L
108-90-7	Chlorobenzene	<0.500	0.500	100	mg/L
67-66-3	Chloroform	<0.500	0.500	6	mg/L
127-18-4	Tetrachloroethene	<0.500	0.500	0.70	mg/L
79-01-6	Trichloroethene	<0.250	0.250	0.50	mg/L
75-01-4	Vinyl chloride	<0.100	0.100	0.20	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5	5.07	mg/L	101	62 - 130
1868-53-7	Dibromofluoromethane	5	4.91	mg/L	98	65 - 127
2037-26-5	Toluene d8	5	5.01	mg/L	100	71 - 134
17060-07-0	1,2-Dichloroethane-d4	5	4.77	mg/L	95	62 - 127

## EPA 1311/8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/15/2020 06:30	683768	EPA 3510C	1	05/15/2020 16:49	DLB	683785

CAS#	Parameter	Result	LOQ	Reg Limit	Units
106-46-7	1,4-Dichlorobenzene	<0.0500	0.0500	7.50	mg/L
95-95-4	2,4,5-Trichlorophenol	<0.0500	0.0500	400	mg/L
88-06-2	2,4,6-Trichlorophenol	<0.0500	0.0500	2	mg/L
121-14-2	2,4-Dinitrotoluene	<0.0100	0.0100	0.13	mg/L
1319-77-3	Cresols	<0.1000	0.1000	200	mg/L
118-74-1	Hexachlorobenzene	<0.0100	0.0100	0.13	mg/L
87-68-3	Hexachlorobutadiene	<0.0500	0.0500	0.50	mg/L
67-72-1	Hexachloroethane	<0.0500	0.0500	3	mg/L
1319-77-3MP	m,p-Cresol	<0.0500	0.0500	200	mg/L
98-95-3	Nitrobenzene	<0.0500	0.0500	2	mg/L
95-48-7	o-Cresol	<0.0500	0.0500	200	mg/L
87-86-5	Pentachlorophenol	<0.0500	0.0500	100	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595417</b>	<b>Collect Date</b>	05/04/2020 09:42	<b>LAB ID</b>	22005122202
	<b>Receive Date</b>	05/12/2020 09:42	<b>Matrix</b>	Solid

#### EPA 1311/8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/15/2020 06:30	683768	EPA 3510C	1	05/15/2020 16:49	DLB	683785

CAS#	Parameter	Result	LOQ	Reg Limit	Units
110-86-1	Pyridine	<0.0500	0.0500	5	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	0.25	.217	mg/L	87	44 - 120
321-60-8	2-Fluorobiphenyl	0.25	.216	mg/L	86	44 - 119
1718-51-0	Terphenyl-d14	0.25	.251	mg/L	100	50 - 134
4165-62-2	Phenol-d5	0.50	.138	mg/L	28	10 - 120
367-12-4	2-Fluorophenol	0.50	.216	mg/L	43	19 - 119
118-79-6	2,4,6-Tribromophenol	0.50	.429	mg/L	86	43 - 140

#### EPA 1311/8081B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 11:00	683721	EPA 3510C	1	05/14/2020 19:01	TLS	683930

CAS#	Parameter	Result	LOQ	Reg Limit	Units
57-74-9	Chlordane (Technical)	<0.00250	0.00250	0.03	mg/L
72-20-8	Endrin	<0.00100	0.00100	0.02	mg/L
58-89-9	gamma-BHC (Lindane)	<0.000500	0.000500	0.40	mg/L
76-44-8	Heptachlor	<0.000500	0.000500	0.0080	mg/L
1024-57-3	Heptachlor epoxide	<0.000500	0.000500	0.0080	mg/L
72-43-5	Methoxychlor	<0.000500	0.000500	10	mg/L
8001-35-2	Toxaphene	<0.00250	0.00250	0.50	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
877-09-8	Tetrachloro-m-xylene	0.0050	.00357	mg/L	71	44 - 124
2051-24-3	Decachlorobiphenyl	0.0050	.00331	mg/L	66	30 - 139

#### EPA 1311/8151A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/18/2020 08:25	683896	EPA 1311/8151A	1	05/21/2020 22:17	MFS	684311

CAS#	Parameter	Result	LOQ	Reg Limit	Units
93-72-1	2,4,5-TP (Silvex)	<0.00500	0.00500	1	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595417</b>	Collect Date	05/04/2020 09:42	LAB ID	22005122202
	Receive Date	05/12/2020 09:42	Matrix	Solid

#### EPA 1311/8151A (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/18/2020 08:25	683896	EPA 1311/8151A (Continued)	1	05/21/2020 22:17	MFS	684311
CAS#	Parameter		Result	LOQ	Reg Limit	Units
94-75-7	2,4'-D		<0.00500	0.00500	10	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
19719-28-9	DCAA	0.02	.0108	mg/L	54	18 - 136

#### EPA 1311/6020B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 10:00	683661	EPA 3010A	10	05/20/2020 20:45	LWZ	684143
CAS#	Parameter		Result	LOQ	Reg Limit	Units
7440-38-2	Arsenic		<0.10	0.10	5	mg/L
7440-39-3	Barium		<0.10	0.10	100	mg/L
7440-43-9	Cadmium		<0.10	0.10	1	mg/L
7440-47-3	Chromium		<0.10	0.10	5	mg/L
7439-92-1	Lead		<0.10	0.10	5	mg/L
7782-49-2	Selenium		<0.10	0.10	1	mg/L
7440-22-4	Silver		<0.10	0.10	5	mg/L


#### EPA 1311/7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 08:00	683665	EPA 7470A	1	05/14/2020 13:19	TJR	683706
CAS#	Parameter		Result	LOQ	Reg Limit	Units
7439-97-6	Mercury		<0.0020	0.0020	0.20	mg/L


# POLLUTION CONTROL SERVICES



## Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Trish Soechting New Braunfels Utilities P.O. Box 310289 New Braunfels, TX 78131-0289	Project Name: Sample ID: Sam McKenzie Sludge 05042040 Matrix: Sludge Date/Time Taken: 05/04/2020 1048	PCS Sample #: 595418 Date/Time Received: 05/06/2020 13:40 Report Date: 05/27/2020 Approved by: 

Page 1 of 1

 Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
TCLP-Full	See Attached					Pace Analytical Services - Dallas

*Quality Statement: All supporting quality control data adhered to data quality objectives and test results meet the requirements of NELAP unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.*

These analytical results relate only to the sample tested  
All data is reported on an "As Is" basis unless designated as "Dry Wt."  
RL = Reporting Limits

Web Site: [www.pcslab.net](http://www.pcslab.net)  
e-mail: [chuck@pcslab.net](mailto:chuck@pcslab.net)

Toll Free 800-880-4616

1532 Universal City Blvd, Suite 100  
Universal City, TX 78148-3318

210-340-0343

FAX # 210-658-7903

This report cannot be reproduced or duplicated, except in full, without prior written consent from Pollution Control Services.



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

## Sample Results

**595418**

Collect Date 05/04/2020 10:48

LAB ID 22005122203

Receive Date 05/12/2020 09:42

Matrix Solid

## EPA 1311/8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/13/2020 14:30	683617	EPA 1311(TCLP)	100	05/15/2020 15:14	SMS	683802

CAS#	Parameter	Result	LOQ	Reg Limit	Units
75-35-4	1,1-Dichloroethene	<0.500	0.500	0.70	mg/L
107-06-2	1,2-Dichloroethane	<0.250	0.250	0.50	mg/L
78-93-3	2-Butanone	<0.500	0.500	200	mg/L
71-43-2	Benzene	<0.250	0.250	0.50	mg/L
56-23-5	Carbon tetrachloride	<0.250	0.250	0.50	mg/L
108-90-7	Chlorobenzene	<0.500	0.500	100	mg/L
67-66-3	Chloroform	<0.500	0.500	6	mg/L
127-18-4	Tetrachloroethene	<0.500	0.500	0.70	mg/L
79-01-6	Trichloroethene	<0.250	0.250	0.50	mg/L
75-01-4	Vinyl chloride	<0.100	0.100	0.20	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Eromofluorobenzene	5	4.9	mg/L	98	62 - 130
1868-53-7	Dibromofluoromethane	5	5.07	mg/L	101	65 - 127
2037-26-5	Toluene d8	5	5.15	mg/L	103	71 - 134
17060-07-0	1,2-Dichloroethane-d4	5	4.89	mg/L	98	62 - 127

## EPA 1311/8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/15/2020 06:30	683768	EPA 3510C	1	05/15/2020 17:05	DLB	683785

CAS#	Parameter	Result	LOQ	Reg Limit	Units
106-46-7	1,4-Dichlorobenzene	<0.0500	0.0500	7.50	mg/L
95-95-4	2,4,5-Trichlorophenol	<0.0500	0.0500	400	mg/L
88-06-2	2,4,6-Trichlorophenol	<0.0500	0.0500	2	mg/L
121-14-2	2,4-Dinitrotoluene	<0.0100	0.0100	0.13	mg/L
<b>1319-77-3</b>	<b>Cresols</b>	<b>0.382</b>	<b>0.1000</b>	<b>200</b>	<b>mg/L</b>
118-74-1	Hexachlorobenzene	<0.0100	0.0100	0.13	mg/L
87-68-3	Hexachlorobutadiene	<0.0500	0.0500	0.50	mg/L
67-72-1	Hexachloroethane	<0.0500	0.0500	3	mg/L
<b>1319-77-3MP</b>	<b>m,p-Cresol</b>	<b>0.382</b>	<b>0.0500</b>	<b>200</b>	<b>mg/L</b>
98-95-3	Nitrobenzene	<0.0500	0.0500	2	mg/L
95-48-7	o-Cresol	<0.0500	0.0500	200	mg/L
87-86-5	Pentachlorophenol	<0.0500	0.0500	100	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595418</b>	Collect Date	05/04/2020 10:48	LAB ID	22005122203
	Receive Date	05/12/2020 09:42	Matrix	Solid

#### EPA 1311/8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/15/2020 06:30	683768	EPA 3510C	1	05/15/2020 17:05	DLB	683785

CAS#	Parameter	Result	LOQ	Reg Limit	Units
110-86-1	Pyridine	<0.0500	0.0500	5	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	0.25	.209	mg/L	84	44 - 120
321-60-8	2-Fluorobiphenyl	0.25	.204	mg/L	82	44 - 119
1718-51-0	Terphenyl-d14	0.25	.268	mg/L	107	50 - 134
4165-62-2	Phenol-d5	0.50	.15	mg/L	30	10 - 120
367-12-4	2-Fluorophenol	0.50	.225	mg/L	45	19 - 119
118-79-6	2,4,6-Tribromophenol	0.50	.471	mg/L	94	43 - 140

#### EPA 1311/8081B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 11:00	683721	EPA 3510C	1	05/14/2020 19:13	TLS	683930

CAS#	Parameter	Result	LOQ	Reg Limit	Units
57-74-9	Chlordane (Technical)	<0.00250	0.00250	0.03	mg/L
72-20-8	Endrin	<0.00100	0.00100	0.02	mg/L
58-89-9	gamma-BHC (Lindane)	<0.000500	0.000500	0.40	mg/L
76-44-8	Heptachlor	<0.000500	0.000500	0.0080	mg/L
1024-57-3	Heptachlor epoxide	<0.000500	0.000500	0.0080	mg/L
72-43-5	Methoxychlor	<0.000500	0.000500	10	mg/L
8001-35-2	Toxaphene	<0.00250	0.00250	0.50	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
877-09-3	Tetrachloro-m-xylene	0.0050	.00448	mg/L	90	44 - 124
2051-24-3	Decachlorobiphenyl	0.0050	.00397	mg/L	79	30 - 139

#### EPA 1311/8151A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/18/2020 08:25	683896	EPA 1311/8151A	1	05/21/2020 22:37	MFS	684311

CAS#	Parameter	Result	LOQ	Reg Limit	Units
93-72-1	2,4,5-TP (Silvex)	<0.00500	0.00500	1	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595418</b>	Collect Date	05/04/2020 10:48	LAB ID	22005122203
	Receive Date	05/12/2020 09:42	Matrix	Solid

#### EPA 1311/8151A (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/18/2020 08:25	683896	EPA 1311/8151A (Continued)	1	05/21/2020 22:37	MFS	684311

CAS#	Parameter	Result	LOQ	Reg Limit	Units
94-75-7	2,4-D	<0.00500	0.00500	10	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
19719-28-9	DCAA	0.02	.0096	mg/L	48	18 - 136

#### EPA 1311/6020B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 10:00	683661	EPA 3010A	10	05/20/2020 20:48	LWZ	684143

CAS#	Parameter	Result	LOQ	Reg Limit	Units
7440-33-2	Arsenic	<0.10	0.10	5	mg/L
7440-39-3	Barium	<0.10	0.10	100	mg/L
7440-43-9	Caesium	<0.10	0.10	1	mg/L
7440-47-3	Chromium	<0.10	0.10	5	mg/L
7439-92-1	Lead	<0.10	0.10	5	mg/L
7782-49-2	Selenium	<0.10	0.10	1	mg/L
7440-22-4	Silver	<0.10	0.10	5	mg/L

#### EPA 1311/7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 08:00	683665	EPA 7470A	1	05/14/2020 13:21	TJR	683706


  

CAS#	Parameter	Result	LOQ	Reg Limit	Units
7439-97-6	Mercury	<0.0020	0.0020	0.20	mg/L

# POLLUTION CONTROL SERVICES



## Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Trish Soechting New Braunfels Utilities P.O. Box 310289 New Braunfels, TX 78131-0289	Project Name: Sample ID: Surface Water Plant 05042041 Matrix: Sludge Date/Time Taken: 05/04/2020 1140	PCS Sample #: 595419 Date/Time Received: 05/06/2020 13:40 Report Date: 05/27/2020 Approved by:  Chuck Wallgren, President

Page 1 of 1

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
TCLP-Full	See Attached					Pace Analytical Services - Dallas

**Quality Statement:** All supporting quality control data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

These analytical results relate only to the sample tested  
 All data is reported on an "As Is" basis unless designated as "Dry WL"  
 RL = Reporting Limits





Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595419</b>	Collect Date	05/04/2020 11:40	LAB ID	22005122204
	Receive Date	05/12/2020 09:42	Matrix	Solid

#### EPA 1311/8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/13/2020 14:30	683617	EPA 1311(TCLP)	100	05/15/2020 16:03	SMS	683802

CAS#	Parameter	Result	LOQ	Reg Limit	Units
75-35-4	1,1-Dichloroethene	<0.500	0.500	0.70	mg/L
107-06-2	1,2-Dichloroethane	<0.250	0.250	0.50	mg/L
78-93-3	2-Butanone	<0.500	0.500	200	mg/L
71-43-2	Benzene	<0.250	0.250	0.50	mg/L
56-23-5	Carbon tetrachloride	<0.250	0.250	0.50	mg/L
108-90-7	Chlorobenzene	<0.500	0.500	100	mg/L
67-66-3	Chloroform	<0.500	0.500	6	mg/L
127-18-4	Tetrachloroethene	<0.500	0.500	0.70	mg/L
79-01-6	Trichloroethene	<0.250	0.250	0.50	mg/L
75-01-4	Vinyl chloride	<0.100	0.100	0.20	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Eromofluorobenzene	5	5.18	mg/L	104	62 - 130
1868-53-7	Dibromofluoromethane	5	4.97	mg/L	99	65 - 127
2037-26-5	Toluene d8	5	5.16	mg/L	103	71 - 134
17060-07-0	1,2-Dichloroethane-d4	5	4.9	mg/L	98	62 - 127

#### EPA 1311/8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/15/2020 06:30	683768	EPA 3510C	1	05/15/2020 17:21	DLB	683785

CAS#	Parameter	Result	LOQ	Reg Limit	Units
106-46-7	1,4-Dichlorobenzene	<0.0500	0.0500	7.50	mg/L
95-95-4	2,4,5-Trichlorophenol	<0.0500	0.0500	400	mg/L
88-06-2	2,4,6-Trichlorophenol	<0.0500	0.0500	2	mg/L
121-14-2	2,4-Dinitrotoluene	<0.0100	0.0100	0.13	mg/L
1319-77-3	Cresols	<0.1000	0.1000	200	mg/L
118-74-1	Hexachlorobenzene	<0.0100	0.0100	0.13	mg/L
87-68-3	Hexachlorobutadiene	<0.0500	0.0500	0.50	mg/L
67-72-1	Hexachloroethane	<0.0500	0.0500	3	mg/L
1319-77-3MP	m,p-Cresol	<0.0500	0.0500	200	mg/L
98-95-3	Nitrobenzene	<0.0500	0.0500	2	mg/L
95-48-7	o-Cresol	<0.0500	0.0500	200	mg/L
87-86-5	Pentachlorophenol	<0.0500	0.0500	100	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595419</b>	<b>Collect Date</b>	05/04/2020 11:40	<b>LAB ID</b>	22005122204
	<b>Receive Date</b>	05/12/2020 09:42	<b>Matrix</b>	Solid

#### EPA 1311/8270C (Continued)

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b>	<b>Analysis Date</b>	<b>By</b>	<b>Analytical Batch</b>
05/15/2020 06:30	683768	EPA 3510C	1	05/15/2020 17:21	DLB	683785

CAS#	Parameter	Result	LOQ	Reg Limit	Units
110-86-1	Pyridine	<0.0500	0.0500	5	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	0.25	.207	mg/L	83	44 - 120
321-60-8	2-Fluorobiphenyl	0.25	.213	mg/L	85	44 - 119
1718-51-0	Terphenyl-d14	0.25	.247	mg/L	99	50 - 134
4165-62-2	Phenol-d5	0.50	.134	mg/L	27	10 - 120
367-12-4	2-Fluorophenol	0.50	.208	mg/L	42	19 - 119
118-79-6	2,4,6-Tribromophenol	0.50	.392	mg/L	78	43 - 140

#### EPA 1311/8081B

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b>	<b>Analysis Date</b>	<b>By</b>	<b>Analytical Batch</b>
05/14/2020 11:00	683721	EPA 3510C	1	05/14/2020 19:26	TLS	683930

CAS#	Parameter	Result	LOQ	Reg Limit	Units
57-74-9	Chlordane (Technical)	<0.00250	0.00250	0.03	mg/L
72-20-8	Endrin	<0.00100	0.00100	0.02	mg/L
58-89-9	gamma-BHC (Lindane)	<0.000500	0.000500	0.40	mg/L
76-44-8	Heptachlor	<0.000500	0.000500	0.0080	mg/L
1024-57-3	Heptachlor epoxide	<0.000500	0.000500	0.0080	mg/L
72-43-5	Methoxychlor	<0.000500	0.000500	10	mg/L
8001-35-2	Toxaphene	<0.00250	0.00250	0.50	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
877-09-8	Tetrachloro-m-xylene	0.0050	.00453	mg/L	91	44 - 124
2051-24-3	Decachlorobiphenyl	0.0050	.00419	mg/L	84	30 - 139

#### EPA 1311/8151A

<b>Prep Date</b>	<b>Prep Batch</b>	<b>Prep Method</b>	<b>Dilution</b>	<b>Analysis Date</b>	<b>By</b>	<b>Analytical Batch</b>
05/18/2020 08:25	683896	EPA 1311/8151A	1	05/21/2020 22:58	MFS	684311

CAS#	Parameter	Result	LOQ	Reg Limit	Units
93-72-1	2,4,5-TP (Silvex)	<0.00500	0.00500	1	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595419</b>	Collect Date	05/04/2020 11:40	LAB ID	22005122204
	Receive Date	05/12/2020 09:42	Matrix	Solid

#### EPA 1311/8151A (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/18/2020 08:25	683896	EPA 1311/8151A (Continued)	1	05/21/2020 22:58	MFS	684311
CAS#	Parameter		Result	LOQ	Reg Limit	Units
94-75-7	2,4-D		<0.00500	0.00500	10	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
19719-28-9	DCAA	0.02	.00981	mg/L	49	18 - 136

#### EPA 1311/6020B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 10:00	683661	EPA 3010A	10	05/20/2020 20:52	LWZ	684143
CAS#	Parameter		Result	LOQ	Reg Limit	Units
7440-38-2	Arsenic		<0.10	0.10	5	mg/L
7440-39-3	Barium		0.39	0.10	100	mg/L
7440-43-9	Cadmium		<0.10	0.10	1	mg/L
7440-47-3	Chromium		<0.10	0.10	5	mg/L
7439-92-1	Lead		<0.10	0.10	5	mg/L
7782-49-2	Selenium		<0.10	0.10	1	mg/L
7440-22-4	Silver		<0.10	0.10	5	mg/L

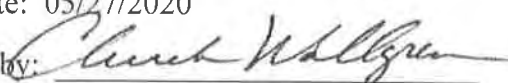
#### EPA 1311/7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 08:00	683665	EPA 7470A	1	05/14/2020 13:23	TJR	683706
CAS#	Parameter		Result	LOQ	Reg Limit	Units
7439-97-6	Mercury		<0.0020	0.0020	0.20	mg/L

# POLLUTION CONTROL SERVICES



## Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Trish Soechting New Braunfels Utilities P.O. Box 310289 New Braunfels, TX 78131-0289	Project Name: Sample ID: GSTP Sludge 05052042 Matrix: Sludge Date/Time Taken: 05/05/2020 0945	PCS Sample #: 595420 Date/Time Received: 05/06/2020 13:40 Report Date: 05/27/2020 Approved by:  Chuck Wallgren, President

Page 1 of 1

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
TCLP-Full	See Attached					Pace Analytical Services - Dallas

**Quality Statement:** All supporting quality control data adhered to data quality objectives and test results meet the requirements of NELAP unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

These analytical results relate only to the sample tested  
 All data is reported on an "As Is" basis unless designated as "Dry Wt"  
 RL = Reporting Limits

Web Site: [www.pcslab.net](http://www.pcslab.net)  
 e-mail: [chuck@pcslab.net](mailto:chuck@pcslab.net)

Toll Free 800-880-4616

1532 Universal City Blvd, Suite 100  
 Universal City, TX 78148-3318

210-340-0343

FAX # 210-658-7903



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595420</b>	Collect Date	05/05/2020 09:45	LAB ID	22005122205
	Receive Date	05/12/2020 09:42	Matrix	Solid

#### EPA 1311/8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/13/2020 14:30	683617	EPA 1311(TCLP)	100	05/15/2020 16:27	SMS	683802

CAS#	Parameter	Result	LOQ	Reg Limit	Units
75-35-4	1,1-Dichloroethene	<0.500	0.500	0.70	mg/L
107-06-2	1,2-Dichloroethane	<0.250	0.250	0.50	mg/L
78-93-3	2-Butanone	<0.500	0.500	200	mg/L
71-43-2	Benzene	<0.250	0.250	0.50	mg/L
56-23-5	Carbon tetrachloride	<0.250	0.250	0.50	mg/L
108-90-7	Chlorobenzene	<0.500	0.500	100	mg/L
67-66-3	Chloroform	<0.500	0.500	6	mg/L
127-18-4	Tetrachloroethene	<0.500	0.500	0.70	mg/L
79-01-6	Trichloroethene	<0.250	0.250	0.50	mg/L
75-01-4	Vinyl chloride	<0.100	0.100	0.20	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Eromofluorobenzene	5	5.26	mg/L	105	62 - 130
1868-53-7	Dibromofluoromethane	5	5.04	mg/L	101	65 - 127
2037-26-5	Toluene d8	5	5.09	mg/L	102	71 - 134
17060-07-0	1,2-Dichloroethane-d4	5	4.99	mg/L	100	62 - 127

#### EPA 1311/8270C

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/15/2020 06:30	683768	EPA 3510C	1	05/15/2020 17:37	DLB	683785

CAS#	Parameter	Result	LOQ	Reg Limit	Units
106-46-7	1,4-Dichlorobenzene	<0.0500	0.0500	7.50	mg/L
95-95-4	2,4,5-Trichlorophenol	<0.0500	0.0500	400	mg/L
88-06-2	2,4,6-Trichlorophenol	<0.0500	0.0500	2	mg/L
121-14-2	2,4-Dinitrotoluene	<0.0100	0.0100	0.13	mg/L
<b>1319-77-3</b>	<b>Cresols</b>	<b>0.137</b>	<b>0.1000</b>	<b>200</b>	<b>mg/L</b>
118-74-1	Hexachlorobenzene	<0.0100	0.0100	0.13	mg/L
87-68-3	Hexachlorobutadiene	<0.0500	0.0500	0.50	mg/L
67-72-1	Hexachloroethane	<0.0500	0.0500	3	mg/L
<b>1319-77-3MP</b>	<b>m,p-Cresol</b>	<b>0.137</b>	<b>0.0500</b>	<b>200</b>	<b>mg/L</b>
98-95-3	Nitrobenzene	<0.0500	0.0500	2	mg/L
95-48-7	o-Cresol	<0.0500	0.0500	200	mg/L
87-86-5	Pentachlorophenol	<0.0500	0.0500	100	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595420</b>	<b>Collect Date</b>	05/05/2020 09:45	<b>LAB ID</b>	22005122205
	<b>Receive Date</b>	05/12/2020 09:42	<b>Matrix</b>	Solid

#### EPA 1311/8270C (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/15/2020 06:30	683768	EPA 3510C	1	05/15/2020 17:37	DLB	683785

CAS#	Parameter	Result	LOQ	Reg Limit	Units
110-86-1	Pyridine	<0.0500	0.0500	5	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
4165-60-0	Nitrobenzene-d5	0.25	.207	mg/L	83	44 - 120
321-60-8	2-Fluorobiphenyl	0.25	.21	mg/L	84	44 - 119
1718-51-0	Terphenyl-d14	0.25	.244	mg/L	98	50 - 134
4165-62-2	Phenol-d5	0.50	.138	mg/L	28	10 - 120
367-12-4	2-Fluorophenol	0.50	.211	mg/L	42	19 - 119
118-79-6	2,4,6-Tribromophenol	0.50	.407	mg/L	81	43 - 140

#### EPA 1311/8081B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 11:00	683721	EPA 3510C	1	05/14/2020 19:38	TLS	683930

CAS#	Parameter	Result	LOQ	Reg Limit	Units
57-74-9	Chlordane (Technical)	<0.00250	0.00250	0.03	mg/L
72-20-8	Endrin	<0.00100	0.00100	0.02	mg/L
58-89-9	gamma-BHC (Lindane)	<0.000500	0.000500	0.40	mg/L
76-44-8	Heptachlor	<0.000500	0.000500	0.0080	mg/L
1024-57-3	Heptachlor epoxide	<0.000500	0.000500	0.0080	mg/L
72-43-5	Methoxychlor	<0.000500	0.000500	10	mg/L
8001-35-2	Toxaphene	<0.00250	0.00250	0.50	mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
877-09-8	Tetrachloro-m-xylene	0.0050	.00461	mg/L	92	44 - 124
2051-24-3	Decachlorobiphenyl	0.0050	.0034	mg/L	68	30 - 139

#### EPA 1311/8151A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/18/2020 08:25	683896	EPA 1311/8151A	1	05/21/2020 23:18	MFS	684311

CAS#	Parameter	Result	LOQ	Reg Limit	Units
93-72-1	2,4,5-TP (Silvex)	<0.00500	0.00500	1	mg/L



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

### Sample Results

<b>595420</b>	Collect Date	05/05/2020 09:45	LAB ID	22005122205
	Receive Date	05/12/2020 09:42	Matrix	Solid

#### EPA 1311/8151A (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/18/2020 08:25	683896	EPA 1311/8151A (Continued)	1	05/21/2020 23:18	MFS	684311
CAS#	Parameter		Result	LOQ	Reg Limit	Units
94-75-7	2,4'-D		<0.00500	0.00500	10	mg/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
19719-28-9	DCAA	0.02	.012	mg/L	60	18 - 136

#### EPA 1311/6020B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 10:00	683661	EPA 3010A	10	05/20/2020 20:55	LWZ	684143
CAS#	Parameter		Result	LOQ	Reg Limit	Units
7440-38-2	Arsenic		<0.10	0.10	5	mg/L
7440-39-3	Barium		<0.10	0.10	100	mg/L
7440-43-9	Cadmium		<0.10	0.10	1	mg/L
7440-47-3	Chromium		<0.10	0.10	5	mg/L
7439-92-1	Lead		<0.10	0.10	5	mg/L
7782-49-2	Selenium		<0.10	0.10	1	mg/L
7440-22-4	Silver		<0.10	0.10	5	mg/L

#### EPA 1311/7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
05/14/2020 08:00	683665	EPA 7470A	1	05/14/2020 13:25	TJR	683706
CAS#	Parameter		Result	LOQ	Reg Limit	Units
7439-97-6	Mercury		<0.0020	0.0020	0.20	mg/L

# POLLUTION CONTROL SERVICES

Chain of Custody Number  
595416

## MULTIPLE SAMPLE ANALYSIS REQUEST AND CHAIN OF CUSTODY FORM

*Stamp 1<sup>st</sup> sample and COC as same number*

CUSTOMER INFORMATION					REPORT INFORMATION																																								
Name: New Braunfels Utilities					Attention: Trish Soechting			Phone: (830) 608-8905		Fax: (830) 626-1361																																			
SAMPLE INFORMATION							Requested Analysis																																						
Project Information: Report "Soils" <input type="checkbox"/> As Is <input type="checkbox"/> Dry Wt				Collected By: <b>L. KING</b>				<table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Matrix</th> <th colspan="2">Container</th> <th rowspan="2">Type</th> <th rowspan="2">Number</th> <th rowspan="2">Preservative</th> </tr> <tr> <td colspan="2">                     DW-Drinking Water, NPW-Non-potable water, WW-Wastewater, LW-Liquid Waste                 </td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/> C</td> <td> <input type="checkbox"/> DW <input type="checkbox"/> NPW  <input type="checkbox"/> WW <input type="checkbox"/> Soil  <input checked="" type="checkbox"/> Sludge <input type="checkbox"/> LW  <input type="checkbox"/> Other                 </td> <td><input checked="" type="checkbox"/> P</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><input checked="" type="checkbox"/> G</td> <td></td> <td><input type="checkbox"/> G</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td><input type="checkbox"/> O</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Matrix		Container		Type	Number	Preservative	DW-Drinking Water, NPW-Non-potable water, WW-Wastewater, LW-Liquid Waste						<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input checked="" type="checkbox"/> P					<input checked="" type="checkbox"/> G		<input type="checkbox"/> G							<input type="checkbox"/> O				
Matrix		Container		Type	Number	Preservative																																							
DW-Drinking Water, NPW-Non-potable water, WW-Wastewater, LW-Liquid Waste																																													
<input type="checkbox"/> C	<input type="checkbox"/> DW <input type="checkbox"/> NPW <input type="checkbox"/> WW <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Sludge <input type="checkbox"/> LW <input type="checkbox"/> Other	<input checked="" type="checkbox"/> P																																											
<input checked="" type="checkbox"/> G		<input type="checkbox"/> G																																											
		<input type="checkbox"/> O																																											
Client / Field Sample ID	Collected		Field Chlorine Residual mg/L	Composite or Grab					Instructions/Comments:																																				
	Date	Time					PCS Sample Number																																						
<b>SK57P SLUDGE 050420 38</b>	Start: 5-4-20 End: —	Start: 0939 End: —		<input type="checkbox"/> C <input checked="" type="checkbox"/> G		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE	<input checked="" type="checkbox"/> X			595416 <small><input type="checkbox"/> S <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:</small>																																			
<b>NK57P SLUDGE 050420 39</b>	Start: 5-4-20 End: —	Start: 0942 End: —		<input type="checkbox"/> C <input checked="" type="checkbox"/> G		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE	<input checked="" type="checkbox"/> X			595417 <small><input type="checkbox"/> S <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:</small>																																			
<b>SRM INKLEIN ZIE 050420 40</b>	Start: 5-4-20 End: —	Start: 1048 End: —		<input type="checkbox"/> C <input checked="" type="checkbox"/> G		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE	<input checked="" type="checkbox"/> X			595418 <small><input type="checkbox"/> S <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:</small>																																			
<b>SURFACE WATER PLANT 050420 41</b>	Start: 5-4-20 End: —	Start: 1140 End: —		<input type="checkbox"/> C <input checked="" type="checkbox"/> G		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE	<input checked="" type="checkbox"/> X			595419 <small><input type="checkbox"/> S <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:</small>																																			
<b>G57P SLUDGE 050520 42</b>	Start: 5-5-20 End: —	Start: 0945 End: —		<input type="checkbox"/> C <input checked="" type="checkbox"/> G		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE	<input checked="" type="checkbox"/> X			595420 <small><input type="checkbox"/> S <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:</small>																																			
Start: End:	Start: End:	Start: End:		<input type="checkbox"/> C <input type="checkbox"/> G		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O			<small><input type="checkbox"/> S <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:</small>																																			
Start: End:	Start: End:	Start: End:		<input type="checkbox"/> C <input type="checkbox"/> G		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O			<small><input type="checkbox"/> S <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:</small>																																			
Start: End:	Start: End:	Start: End:		<input type="checkbox"/> C <input type="checkbox"/> G		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O			<small><input type="checkbox"/> S <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:</small>																																			
Start: End:	Start: End:	Start: End:		<input type="checkbox"/> C <input type="checkbox"/> G		<input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> H <sub>3</sub> PO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> ICE	<input type="checkbox"/> P <input type="checkbox"/> G <input type="checkbox"/> O			<small><input type="checkbox"/> S <input type="checkbox"/> B <input type="checkbox"/> N <input type="checkbox"/> HEM Other:</small>																																			

Required Turnaround:  Routine (6-10 days)  EXPEDITE: (See Surcharge Schedule)  < 8 Hrs  < 16 Hrs  < 24 Hrs  5 days  Other Rush Charges Authorized by:

Sample Archive/Disposal:  Laboratory Standard  Hold for client pick up Container Type: P = Plastic, G = Glass, O = Other Carrier ID:

Relinquished By: <b>Fanny King</b>	Date: <b>5-6-20</b>	Time: <b>1300</b>	Received By: <b>J. Rosler</b>	Date: <b>5-6-20</b>	Time: <b>1350</b>
Relinquished By: <b>J. Rosler</b>	Date: <b>5-6-20</b>	Time: <b>1340</b>	Received By: <b>Jouren Wally</b>	Date: <b>5-6-20</b>	Time: <b>1340</b>

Rev. Multiple Sample COC 20120201

© 2008 Pollution Control Services. All rights reserved.

1532 Universal City Blvd., Ste. 100, Universal City, Texas 78148  
P (210) 340-0343 or (800) 880-4616 - F (210) 658-7903

Login at [www.peslab.net](http://www.peslab.net)  
TCEQ NECAP 1104704361-1X

LMW



May 26, 2020

Chuck Wallgren  
Pollution Control Services  
1532 Universal City Blvd. #100  
Universal City, TX 78148

RE: Project: 595416  
Pace Project No.: 75131341

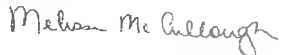
Dear Chuck Wallgren:

Enclosed are the analytical results for sample(s) received by the laboratory on May 08, 2020. 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:

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

Sincerely,



Melissa McCullough  
melissa.mccullough@pacelabs.com  
(972)727-1123  
Project Manager

Enclosures

cc: Michael Klang, Pollution Control Services  
Office Manager



## REPORT OF LABORATORY ANALYSIS

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


### SAMPLE SUMMARY

Project: 595416  
Pace Project No.: 75131341

Lab ID	Sample ID	Matrix	Date Collected	Date Received
75131341001	595416	Solid	05/04/20 09:39	05/08/20 09:30
75131341002	595417	Solid	05/04/20 09:42	05/08/20 09:30
75131341003	595418	Solid	05/04/20 10:48	05/08/20 09:30
75131341004	595419	Solid	05/04/20 11:40	05/08/20 09:30
75131341005	595420	Solid	05/05/20 09:45	05/08/20 09:30

### REPORT OF LABORATORY ANALYSIS

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

	Document Name: Sample Condition Upon Receipt	Document Revised: 01/03/20 Page 1 of 1
	Document No.: F-DAL-C-001-rev.12	Issuing Authority: Pace Dallas Quality Office

**Sample Condition Upon Receipt**

Dallas     Ft Worth     Corpus

**WO#: 75131341**



Client Name: PCS Project Work order: \_\_\_\_\_

Courier: FedEX  UPS  USPS  Client  LSO  PACE  Other: \_\_\_\_\_

Tracking #: 24012H9P

Custody Seal on Cooler/Box: Yes  No  Packing Material: Bubble Wrap/Bags  Foam  None  Other

Received on Ice: Yes  No  Type of Ice: Wet  Blue

Thermometer Used: R-13 Cooler Temp °C: 0.5 (Recorded) 10.1 (Correction Factor) 0.6 (Actual)

Temperature should be above freezing to 6°C

Triage Person: N.O Date: 05/08/20

Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler name & signature on COC	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Short HT analyses (<72 hrs)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Login Person: mg Date: 5-8-20

Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sample pH Acceptable pH Strips: _____	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Residual Chlorine Present Cl Strips: _____	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Sulfide Present Lead Acetate Strips: _____	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Are soil samples (volatiles, TPH) received in 5035A Kits (not applicable to TCLP VOA or PST Program TPH)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Unpreserved 5035A soil frozen within 48 hrs	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Headspace in VOA (>6mm)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
Project sampled in USDA Regulated Area: State Sampled: <u>TX</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Non-Conformance(s):	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Labeling Person (if different than log-in): 5820 JM Date: 5-8-20  
58.00

# POLLUTION CONTROL SERVICES

1532 Universal City Blvd, Suite 100  
 Universal City, TX 78148-3318  
 Facsimile 210.658.7903  
 210.340.0343

## CHAIN OF CUSTODY & SUBCONTRACT TRACKING SHEET

TO: Pace Analytical Services, Inc.  
400 W Bethany Rd, Ste 190  
Allen, TX 75013

Relinquished by: Emily Voges  
 Date/Time: 5/7/2020  
 Received by: Nhokha Chong / PFE  
 Date/Time: 5/8/20 09:30

PCS#	Date	Time	Analysis Requested	Pres	T. A. T.
595416	05/04/2020	0939	TCLP-Full	Ice	Std
595417	05/04/2020	0942	TCLP-Full	Ice	Std
595418	05/04/2020	1048	TCLP-Full	Ice	Std
595419	05/04/2020	1140	TCLP-Full	Ice	Std
595420	05/05/2020	0945	TCLP-Full	Ice	Std

**WO#: 75131341**  
 PM: MLM      Due Date: 05/22/20  
 CLIENT: PCS

Comments/Special Instructions:  
 Project:

Unless otherwise requested, send results and invoice to:

Chuck Wallgren  
 Pollution Control Services  
 1532 Universal City Blvd, Suite 100  
 Universal City, TX 78148-3318

Authorized by:       Date: 5/7/20



LELAP CERTIFICATE NUMBER: 01955  
DOD-ELAP ACCREDITATION NUMBER: 74960

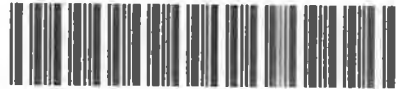
## ANALYTICAL RESULTS

### PERFORMED BY

Pace Analytical Gulf Coast  
7979 Innovation Park Dr.  
Baton Rouge, LA 70820  
(225) 769-4900

Report Date 05/22/2020

Report # 220051222



**Project** 75131341-595416

<i>Deliver To</i>	<i>Additional Recipients</i>
Melissa McCullough Pace Analytical Services, Inc. 400 West Bethany Drive Suite 190 Allen, TX 75013 (972) 727-1123	NONE





Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

## Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with Pace Gulf Coast's Standard Operating Procedures.

### Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
NO	Indicates the sample did not ignite when preliminary test performed for EPA Method 1030
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
CF	HPLC or GC Confirmation
00:01	Reported as a time equivalent to 12:00 AM

### Reporting Flags that may be Utilized in this Report

J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	Organics - The result is estimated because it exceeded the instrument calibration range
E	Metals - % difference for the serial dilution is > 10%
L	Reporting Limits adjusted to meet risk-based limit.
P	RPD between primary and confirmation result is greater than 40
DL	Diluted analysis – when appended to Client Sample ID

Sample receipt at Pace Gulf Coast is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of Pace Gulf Coast. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Robyn Migues/Client Svcs Mgr

Authorized Signature  
Pace Gulf Coast Report 220051222



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

## Certifications

Certification	Certification Number
DOD ELAP	74960
Alabama	01955
Arkansas	88-0655
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
Washington	C929
USDA Soil Permit	P330-16-00234



**Report#:** 220051222

**Project ID:** 75131341-595416

**Report Date:** 05/22/2020

---

## Case Narrative

**Client:** Pace Analytical Services      **Report:** 220051222

Pace Analytical Gulf Coast received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

**No anomalies were found for the analyzed sample(s).**





Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

## Sample Summary

LAB ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
22005122201	595416	Solid	05/04/2020 09:39	05/12/2020 09:42
22005122202	595417	Solid	05/04/2020 09:42	05/12/2020 09:42
22005122203	595418	Solid	05/04/2020 10:48	05/12/2020 09:42
22005122204	595419	Solid	05/04/2020 11:40	05/12/2020 09:42
22005122205	595420	Solid	05/05/2020 09:45	05/12/2020 09:42



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

## GC/MS Volatiles QC Summary

Analytical Batch 683802		Client ID MB683802	LAB ID 2040607	LCS683802 2040608	LCS NA		LCSD683802 2040609		LCSD NA		RPD	
		Sample Type MB	Prep Date NA	Analysis Date 05/15/2020 12:08	05/15/2020 10:41	05/15/2020 11:02		Water				
EPA 1311/8260B		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1-Dichloroethene	75-35-4	<0.00500	0.00500	0.050	0.054	108	69 - 129	0.050	0.053	105	3	30
1,2-Dichloroethane	107-06-2	<0.00250	0.00250	0.050	0.050	99	71 - 129	0.050	0.049	98	1	30
2-Butanone	78-93-3	<0.00500	0.00500	0.250	0.260	104	58 - 137	0.250	0.268	107	3	30
Benzene	71-43-2	<0.00250	0.00250	0.050	0.052	105	70 - 129	0.050	0.050	100	4	30
Carbon tetrachloride	56-23-5	<0.00250	0.00250	0.050	0.053	105	76 - 128	0.050	0.053	105	0	30
Chlorobenzene	108-90-7	<0.00500	0.00500	0.050	0.047	94	74 - 123	0.050	0.045	91	3	30
Chloroform	67-66-3	<0.00500	0.00500	0.050	0.052	103	75 - 122	0.050	0.050	99	4	30
Tetrachloroethene	127-18-4	<0.00500	0.00500	0.050	0.050	100	68 - 128	0.050	0.047	95	6	30
Trichloroethene	79-01-6	<0.00250	0.00250	0.050	0.049	98	76 - 129	0.050	0.048	96	2	30
Vinyl chloride	75-01-4	<0.00100	0.00100	0.050	0.046	91	68 - 132	0.050	0.047	94	3	30
<b>Surrogate</b>												
1,2-Dichloroethane-d4	17060-07-0	.0492	98	.05	.0474	95	62 - 127	.05	.05	100	NA	NA
4-Bromofluorobenzene	460-00-4	.0503	101	.05	.0509	102	62 - 130	.05	.0502	100	NA	NA
Dibromofluoromethane	1868-53-7	.0502	100	.05	.0501	100	65 - 127	.05	.0493	99	NA	NA
Toluene d8	2037-26-5	.0511	102	.05	.0495	99	71 - 134	.05	.0494	99	NA	NA



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

## GC/MS Semi-Volatiles QC Summary

Analytical Batch		Client ID	LCS683768		LCS683768		LCS683768		LCS683768		LCS683768	
683869		LAB ID	2040399		2040400		2040401		2040401		2040401	
Prep Batch		Sample Type	MB		LCS		LCS		LCS		LCS	
683768		Prep Date	05/15/2020 06:30		05/15/2020 06:30		05/15/2020 06:30		05/15/2020 06:30		05/15/2020 06:30	
Prep Method		Analysis Date	05/18/2020 11:47		05/18/2020 12:15		05/18/2020 12:15		05/18/2020 12:15		05/18/2020 12:31	
EPA 3510C		Matrix	Water		Water		Water		Water		Water	
EPA 1311/8270C		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,4-Dichlorobenzene	106-46-7	<0.0500	0.0500	0.050	0.040	80	29 - 112	0.050	0.040	79	1	30
2,4,5-Trichlorophenol	95-95-4	<0.0500	0.0500	0.050	0.044	88	53 - 123	0.050	0.046	91	4	30
2,4,6-Trichlorophenol	88-06-2	<0.0500	0.0500	0.050	0.045	89	50 - 125	0.050	0.046	91	2	30
2,4-Dinitrotoluene	121-14-2	<0.0100	0.0100	0.050	0.053	106	57 - 128	0.050	0.054	107	1	30
Cresols	1319-77-3	<0.1000	0.1000	0.100	0.056	56	30 - 117	0.100	0.056	56	1	30
Hexachlorobenzene	118-74-1	<0.0100	0.0100	0.050	0.045	90	53 - 125	0.050	0.045	89	1	30
Hexachlorobutadiene	87-68-3	<0.0500	0.0500	0.050	0.039	77	22 - 124	0.050	0.039	77	0	30
Hexachloroethane	67-72-1	<0.0500	0.0500	0.050	0.038	75	21 - 115	0.050	0.038	75	0	30
m,p-Cresol	1319-77-3MP	<0.0500	0.0500	0.050	0.026	51	29 - 110	0.050	0.027	53	4	30
Nitrobenzene	98-95-3	<0.0500	0.0500	0.050	0.048	96	45 - 121	0.050	0.048	96	0	30
o-Cresol	95-48-7	<0.0500	0.0500	0.050	0.030	60	30 - 117	0.050	0.029	58	2	30
Pentachlorophenol	87-86-5	<0.0500	0.0500	0.050	0.041	83	35 - 138	0.050	0.040	81	2	30
Pyridine	110-86-1	<0.0500	0.0500	0.050	0.026	52	10 - 120	0.050	0.024	48	7	30
<b>Surrogate</b>												
2,4,6-Tribromophenol	118-79-6	.0977	98	.1	.0983	98	43 - 140	.1	.0996	100	NA	NA
2-Fluorobiphenyl	321-60-8	.0408	82	.05	.0441	88	44 - 119	.05	.0454	91	NA	NA
2-Fluorophenol	367-12-4	.0455	46	.1	.0418	42	19 - 119	.1	.0423	42	NA	NA
Nitrobenzene-d5	4165-60-0	.0449	90	.05	.0462	92	44 - 120	.05	.046	92	NA	NA
Phenol-d5	4165-62-2	.029	29	.1	.0253	25	10 - 120	.1	.0251	25	NA	NA
Terphenyl-d14	1718-51-0	.0636	127	.05	.0425	85	50 - 134	.05	.043	86	NA	NA



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22/2020

## GC Semi-Volatiles QC Summary

EPA 1311/8081B		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Chlordane (Technical)	57-74-9	<0.000250	0.000250									
Endrin	72-20-8	<0.000100	0.000100	0.000500	0.000474	95	60 - 138	0.000500	0.000464	93	2	30
gamma-BHC (Lindane)	58-89-9	<0.0000500	0.0000500	0.000500	0.000544	109	59 - 134	0.000500	0.000527	105	3	30
Heptachlor	76-44-8	<0.0000500	0.0000500	0.000500	0.000444	89	54 - 130	0.000500	0.000427	85	4	30
Heptachlor epoxide	1024-57-3	<0.0000500	0.0000500	0.000500	0.000512	102	61 - 133	0.000500	0.000493	99	4	30
Methoxychlor	72-43-5	<0.0000500	0.0000500	0.000500	0.000467	93	54 - 145	0.000500	0.000460	92	2	30
Toxaphene	8001-35-2	<0.000250	0.000250									
Surrogate												
Decachlorobiphenyl	2051-24-3	.000525	105	.0005	.000365	73	30 - 139	.0005	0.000361	72	NA	NA
Tetrachloro-m-xylene	877-09-8	.000474	95	.0005	.000485	97	44 - 124	.0005	0.000471	94	NA	NA

EPA 1311/8151A		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
2,4,5-TP (Silvex)	93-72-1	<0.00500	0.00500	0.00100	0.00081	81	51 - 134	0.00100	0.00087	87	7	30
2,4'-D	94-75-7	<0.00500	0.00500	0.00099	0.00091	92	45 - 152	0.00099	0.00095	96	4	30
Surrogate												
DCAA	19719-28-9	.00129	65	.002	.0014	70	18 - 136	.002	0.00145	73	NA	NA



Report#: 220051222

Project ID: 75131341-595416

Report Date: 05/22,2020

## Inorganics QC Summary

<b>Analytical Batch</b> 683706	Client ID LAB ID	MB683665 2039906	LCS683665 2039908				
<b>Prep Batch</b> 683665	Sample Type	MB	LCS				
<b>Prep Method</b> EPA 7470A	Prep Date	05/14/2020 08:00	05/14/2020 08:00				
	Analysis Date	05/14/2020 12:36	05/14/2020 12:38				
	Matrix	Water	Water				
<b>EPA 1311/7470A</b>		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R
Mercury	7439-97-6	<0.0020	0.0020	0.0050	0.0056	113	80 - 120

<b>Analytical Batch</b> 683861	Client ID LAB ID	MB683661 2039895	LCS683661 2039897				
<b>Prep Batch</b> 683661	Sample Type	MB	LCS				
<b>Prep Method</b> EPA 3010A	Prep Date	05/14/2020 10:00	05/14/2020 10:00				
	Analysis Date	05/17/2020 14:05	05/17/2020 14:09				
	Matrix	Water	Water				
<b>EPA 1311/6020B</b>		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R
Arsenic	7440-38-2	<0.0010	0.0010	0.050	0.052	104	80 - 120
Barium	7440-39-3	<0.0010	0.0010	0.050	0.052	105	80 - 120
Cadmium	7440-43-9	<0.0010	0.0010	0.050	0.052	104	80 - 120
Chromium	7440-47-3	<0.0010	0.0010	0.050	0.053	106	80 - 120
Lead	7439-92-1	<0.0010	0.0010	0.050	0.051	103	80 - 120
Selenium	7782-49-2	<0.0010	0.0010	0.010	0.010	102	80 - 120
Silver	7440-22-4	<0.0010	0.0010	0.050	0.053	105	80 - 120

Chain of Custody



Samples were sent directly to the Subcontracting Laboratory.

Cert. Needed:  Yes  No

Owner Received Date: 5/8/2020 Results Requested By: 5/22/2020

Workorder: 75131341 Workorder Name: 595416

Report To		Subcontract To		Requested Analysis									
Melissa McCullough Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123		Pace Gulf Coast 10781 Coursey Blvd Baton Rouge, LA 70816											
FULL TCP													
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Recl	Preserved Containers				LAB USE ONLY		
1	595416	PS	5/4/2020 09:39	75131341001	Solid	1						X	
2	595417	PS	5/4/2020 09:42	75131341002	Solid	1						X	1
3	595418	PS	5/4/2020 10:48	75131341003	Solid	1						X	2
4	595419	PS	5/4/2020 11:40	75131341004	Solid	1						X	3
5	595420	PS	5/5/2020 09:45	75131341005	Solid	1						X	4
												5	
Transfers	Released By	Date/Time	Received By	Date/Time	Comments								
1	Melissa Pace	5/11/20 17:20	Feola	5/11/20 17:03	See attached list								
2	Feola	5-12-20 9:42	DOOLIN	5-12-20 9:42	184195123540 13' EDC								
3													
Cooler Temperature on Receipt: °C		Custody Seal Y or N		Received on Ice Y or N		Samples Intact Y or N							

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Client ID: 4367 - Pace Analytical Services

SDG: 220051222

PM: DLH





# SAMPLE RECEIVING CHECKLIST



SAMPLE DELIVERY GROUP 220051222			CHECKLIST		
<b>Client</b> PM DLH 4367 - Pace Analytical Services	<b>Transport Method</b> FEDEX			YES	NO
			Samples received with proper thermal preservation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Radioactivity is <1600 cpm? If no, record cpm value in notes section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Profile Number</b> 281949	<b>Received By</b> McCune, Dodie N.		COC relinquished and complete (including sample IDs, collect times, and sampler)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			All containers received in good condition and within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Line Item(s)</b> 3 - Solid	<b>Receive Date(s)</b> 05/12/20		All sample labels and containers received match the chain of custody?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Preservative added to any containers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			If received, was headspace for VOC water containers < 6mm?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			Samples collected in containers provided by Pace Gulf Coast?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COOLERS			DISCREPANCIES	LAB PRESERVATIONS	
<b>Airbill</b> Thermometer ID: E26 184195123540	<b>Temp °C</b> 1.3		None	None	
<b>NOTES</b>					

Revision 1.6

# Pollution Control Services

## Sample Log-In Checklist

PCS Sample No(s) 595416 595420 COC No. 595416

Client/Company Name: NBU Checklist Completed by: LMW

### Sample Delivery to Lab Via:

Client Drop Off  Commercial Carrier: Bus  UPS  Lone Star  FedEx  USPS   
PCS Field Services: Collection/Pick Up  Other: \_\_\_\_\_

### Sample Kit/Coolers

Sample Kit/Cooler? Yes  No  Sample Kit/Cooler: Intact? Yes  No   
Custody Seals on Sample Kit/Cooler: Not Present  If Present, Intact  Broken   
Sample Containers Intact; Unbroken and Not Leaking? Yes  No   
Custody Seals on Sample Bottles: Not Present  If Present, Intact  Broken   
COC Present with Shipment or Delivery or Completed at Drop Off? Yes  No   
Has COC sample date/time and other pertinent information been provided by client/sampler? Yes  No   
Has COC been properly Signed when Received/Relinquished? Yes  No   
Does COC agree with Sample Bottle Information, Bottle Types, Preservation, etc.? Yes  No   
All Samples Received before Hold Time Expiration? Yes  No   
Sufficient Sample Volumes for Analysis Requested? Yes  No   
Zero Headspace in VOA Vial if Present? Yes  No

### Sample Preservation:

\* **Cooling:** Not Required  or Required   
If cooling required, record temperature of submitted samples Observed/Corrected 8 / 10 °C  
Is Ice Present in Sample Kit/Cooler?  Yes  No Samples received same day as collected?  Yes  No  
Lab Thermometer Make and Serial Number: Vaughan 1807009583 Other: \_\_\_\_\_

**Acid Preserved Sample - If present, is pH <2?** Yes  No  \*\*  H<sub>2</sub>SO<sub>4</sub>  HNO<sub>3</sub>  H<sub>3</sub>PO<sub>4</sub>  
**Base Preserved Sample - If present, is pH >12?** Yes  No   NaOH  
Other Preservation: \_\_\_\_\_ If Present, Meets Requirements? Yes  No   
Sample Preservations Checked by: \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
pH paper used to check sample preservation (PCS log #): \_\_\_\_\_ (HEM pH checked at analysis).  
Samples Preserved/Adjusted by Lab: 

Lab #	Parameters Preserved	Preservative Used	Log #
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Adjusted by Tech/Analyst: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

### Client Notification/ Documentation for "No" Responses Above/ Discrepancies/ Revision Comments

Person Notified: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
Notified Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Method of Contact: At Drop Off:  Phone  Left Voice Mail  E-Mail  Fax   
Unable to Contact  Authorized Laboratory to Proceed: \_\_\_\_\_ (Lab Director)  
Regarding / Comments: \_\_\_\_\_

Actions taken to correct problems/discrepancies: \_\_\_\_\_

Receiving qualifier needed (requires client notification above) Temp. \_\_\_\_\_ Holding Time \_\_\_\_\_ Initials: \_\_\_\_\_  
Receiving qualifier entered into LIMS at login Initial/Date: \_\_\_\_\_

Revision Comments: \_\_\_\_\_

\* Samples submitted for Metals Analysis (except Hex Cr) or Drinking Water for Coliform Bacteria Only are not required to be iced. Samples collected prior day to receipt at the laboratory must meet method specific thermal cooling requirements, "or will be flagged accordingly". Samples delivered the same day as collected may not meet thermal criteria, but shall be considered acceptable if evidence that the chilling process has begun, such as arrival on ice (EPA 815-F-08-006, June 2008). \*\* Water samples for metals analysis that are not acid preserved prior to shipment may be acceptably preserved by the laboratory on receipt - however, the sample digestion procedure must be delayed for at least 24 hours after preservation by the laboratory.