

SECOND AMENDMENT OF THE WATER RECLAMATION FACILITY LABORATORY TESTING SERVICES AGREEMENT

This Second Amendment of the Water Reclamation Facility Laboratory Testing Services Agreement (“Second Amendment”) is made and entered into as of _____ (“Effective Date”) by and between the City of North Las Vegas, a Nevada municipal corporation (hereinafter referred to as “City”), and MDK, LLC, a Nevada limited liability company d/b/a WETLAB (hereinafter referred to as “Services Provider”; collectively, City and Services Provider will be referred to as the “Parties”).

RECITALS

WHEREAS, on July 2, 2020, City and Services Provider entered into the Water Reclamation Facility Laboratory Testing Services Agreement (the “Original Agreement”), a copy of which is attached as Exhibit A;

WHEREAS, on June 14, 2022, the City and Provider entered into the First Amendment and Renewal of the Water Reclamation Facility Laboratory Testing Services Agreement to amend the payment and term section of the Original Agreement and to extend the term of the Original Agreement (“First Amendment”) for the additional two option years (a copy of the First Amendment is attached hereto as Exhibit B); and

WHEREAS, with this Second Amendment wish to amend the payment and term section of the Agreement in order to increase the annual not to exceed amount of the Agreement to \$197,578.00 from \$152,578 for Year 4, thereby increasing the total not-to-exceed amount of this Agreement to \$645,312 from \$600,312 (the Original Agreement, the First Amendment, and this Second Amendment may be collectively referred to as the “Agreement”).

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth in this First Amendment and for other good and valuable consideration, the Parties agree as follows:

AGREEMENT

1. Except for the terms specifically set forth below, the Parties confirm and reaffirm the terms and conditions of the Original Agreement, as amended by the First Amendment.
2. The Parties agree that Section 2.1 of the Original Agreement, as amended by the First Amendment, be deleted in its entirety and replaced with the following new Section 2.1:

2.1 The City shall pay the Services Provider for its services as listed on the Bid as reflected in Schedule A below.

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Schedule A:		
Year:	Paid in Fiscal Year:	Not to Exceed Amount:
Year 1	July 1, 2020 - June 30, 2021	\$ 137,578.00
Year 2	July 1, 2021 - June 30, 2022	\$ 157,578.00
Year 3 (Renewal)	July 1, 2022 - June 30, 2023	\$ 152,578.00
Year 4 (Renewal)	July 1, 2023 - June 30, 2024	\$ 197,578.00
TOTAL:		\$ 645,312.00

For Year 2, the annual not to exceed amount of the Agreement is \$157,578.00. For Year 3, the annual not to exceed amount of the Agreement is \$152,578.00. For Year 4, the annual not to exceed amount of the Agreement is \$197,578.00. The total not to exceed amount of this Agreement is \$645,312.00. The term of this Agreement commenced on July 2, 2020 and the Agreement, after the City exercised its option to extend the Agreement for two years in the First Amendment, is in effect through June 30, 2024 (the "Term").

IN WITNESS WHEREOF, the Parties have executed this Second Amendment as of the Effective Date.

City of North Las Vegas,
a Nevada municipal corporation

MDK, LLC
d/d/a WETLAB
a Nevada limited liability company

By: _____
Pamela A. Goynes-Brown, Mayor

By: Garry Gray
Name: Garry Gray
Title: Business Development _____

Attest:

By: _____
Jackie Rodgers, City Clerk

Approved as to Form:

By: _____
Micaela Rustia Moore, City Attorney

EXHIBIT A

Original Agreement

Please see the attached page(s).

WATER RECLAMATION FACILITY LABORATORY TESTING SERVICES AGREEMENT

This Services Agreement (this "Agreement") is made and entered into as of 07/02/2020 17:56:47 GMT (the "Effective Date") by and between the City of North Las Vegas, a Nevada municipal corporation (the "City") and Western Environmental Testing Laboratory, a Nevada corporation (the "Services Provider").

RECITALS

A. The City desires to obtain Water Reclamation Facility and Industrial Pretreatment and drinking water laboratory testing.

B. The City desires to have the Services Provider obtain Water Reclamation Facility and Industrial Pretreatment and drinking water laboratory testing, and the Services Provider agrees to such performance, upon the terms and conditions described in this Agreement.

NOW, THEREFORE, upon good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the City and the Services Provider agree to the following terms, conditions and covenants:

SECTION ONE RESPONSIBILITY OF PROVIDER

1.1. The Services Provider shall commence the work to be performed under this Agreement on the effective date of this Agreement, using the fees provided in Services Provider's bid dated April 27, 2020 (the "Bid") attached hereto as Exhibit A, complying with the terms of the Invitation to Bid attached hereto as Exhibit B, and all related additional or incidental tasks necessary to effectuate the intent of this Agreement.

1.2. The Services Provider shall perform all of its obligations under this Agreement, in compliance with the Bid. To the extent that any term of the Bid is inconsistent with, or conflicts with, this Agreement, the terms of this Agreement shall govern.

1.3. The Services Provider shall perform all of the Services requested by the City in the manner set forth in this Agreement, including, without limitation, those obligations set forth in the documents attached hereto and incorporated herein, as may be amended by mutual agreement of the parties, and all related additional or incidental tasks necessary to effectuate the intent of this Agreement. If the Services Provider performs any additional task without obtaining the City's prior written approval, the Services Provider does so at its own risk and expense.

1.4. The Services must meet or exceed the technical specifications detailed in the Bid or as otherwise specified by the City.

1.5. The Services Provider shall promptly notify the City any time that the Services Provider fails to meet the requirements of this Agreement and shall, at its own expense, promptly take all actions to come back into compliance with this Agreement. If the Services Provider performs any additional task without obtaining the City's prior written approval, the Services Provider does so at its own risk and expense.

1.6. The Services Provider shall at its own expense comply at all times with all municipal, county, state and federal laws, regulations, rules, codes, ordinances and other applicable legal requirements.

SECTION TWO PAYMENT AND TERM

2.1. The City shall pay the Services Provider for the services provided as listed on the Bid in an amount not to exceed One Hundred Thirty-Seven Thousand Five Hundred and Seventy-Eight Dollars and 00/100 (\$137,578.00) per fiscal year. The term of this agreement shall commence on the Effective Date and continue for a two-year period with two (2) one-year extensions at the sole discretion of the City Manager (the "Term").

2.2. The prices in the Bid will remain in effect for the first two (2) year term of the Agreement. Any intended cost escalation for the possible extensions will not be approved without the prior written authorization of the City to proceed with such changes.

2.3. Payment to the Services Provider shall be made within thirty (30) calendar days after the City receives each invoice from the Services Provider, provided that such invoice is complete, correct, and undisputed by the City. Upon reconciliation of all errors, corrections, credits, and disputes, payment to the Services Provider will be paid in full within thirty (30) calendar days. Invoices received without a valid purchase order number will be returned unpaid. The Services Provider shall submit the original invoice to:

City of North Las Vegas Finance Department
ATTN: Accounts Payable, Suite 700
2250 Las Vegas Blvd., N.
North Las Vegas, NV 89030

SECTION THREE REPRESENTATIONS AND WARRANTIES

3.1. Services Provider represents and warrants for the benefit of City, in addition to any other representations and warranties made in this Agreement, with the knowledge and expectation of City's reliance thereon, as follows:

(a) Services Provider is a duly formed and validly existing corporation and is in good standing pursuant to the laws of the State of Nevada and has the full power, authority and legal right to execute, deliver and perform under this Agreement.

(b) The Services are now and shall be at the time of delivery free from any security interest, lien, or other encumbrance.

(c) Services Provider is financially solvent, able to pay its debts as they mature, and possessed of sufficient working capital to perform all of its obligations under this Agreement.

3.2. The representations and warranties made by Services Provider survive the termination or expiration of the Agreement.

SECTION FOUR INSURANCE

4.1. Services Provider shall procure and maintain, and shall cause each subcontractor, principal or agent to procure and maintain at all times the following insurance coverage for all work related to the performance of this Agreement:

(a) Workers' Compensation Insurance as required by applicable law, covering all persons employed in connection with the matters contemplated hereunder and with respect to whom death or injury claims could be asserted against City, Services Provider or Services Provider's subcontractors, principals or agents.

(b) Commercial General Liability (bodily injury and property damage) insurance in a policy limit of not less than \$1,000,000.00 per occurrence and in the aggregate. Such General Liability insurance policy shall include the City as an additional insured under a blanket Additional Insured endorsement.

SECTION FIVE TERMINATION

The City may terminate this Agreement at any time with or without cause upon notice to the Services Provider, and the City shall have no liability to the Services Provider for such termination except that the City shall pay the Services Provider for the reasonable value of the services provided by the Services Provider to City up through and including the date of termination, provided that the Services Provider, within thirty (30) days following the date of the City's termination notice, submits an invoice for such services in a form reasonably acceptable to the City and such invoice is supplemented by such underlying source documentation as is reasonably requested by the City.

SECTION SIX INDEMNIFICATION

Notwithstanding any of the insurance requirements or limits of liability set forth herein, the Services Provider shall defend, protect, indemnify and hold harmless the City, and its officers, agents and employees, from any liabilities, claims, damages, losses, expenses, proceedings, suits, actions, decrees, judgments, reasonable attorneys' fees, and court costs which the City suffers, and/or its officers, agents or employees suffer, as a result of, or arising out of, the negligent or intentional acts or omissions of the Services Provider, its agents, and employees, or anyone employed by any of them, in fulfillment or performance of the terms, conditions or covenants of this Agreement including, without limitation, compliance with the terms of Exhibit B (Terms & Conditions of City's Bid). This Section 6 shall survive the termination or expiration of this Agreement until such time as the applicable statutes of limitation expire.

SECTION SEVEN NOTICES

7.1. All notices, demands and other instruments required or permitted to be given pursuant to this Agreement shall be in writing and be deemed effective upon delivery in writing if served by personal delivery, by overnight courier service, by facsimile or by overnight express mail, or upon posting if sent by registered or certified mail, postage prepaid, return receipt requested, and addressed as follows:

To City:	City of North Las Vegas Attention: Joy Yoshida 2250 Las Vegas Blvd., N., Suite 710 North Las Vegas, NV 89030 Phone: 702-633-1745
To Services Provider:	Western Environmental Testing Laboratory Attention: Garry Gray 475 E. Greg Street, #119 Sparks, NV 89431 Phone: 775-355-0202

7.2. The address to which any notice, demand or other writing may be delivered to any party as above provided may be changed by written notice given by such party as above provided.

SECTION EIGHT MISCELLANEOUS

8.1. Nevada and City Law. The laws of the State of Nevada and the North Las Vegas Municipal Code shall govern the validity, construction, performance and effect of this Agreement, without regard to conflicts of law. The parties to this Agreement consent to the jurisdiction of any court of competent jurisdiction in Clark County, Nevada to adjudicate any dispute related to this Agreement or actions to enforce or interpret the terms of this Agreement.

8.2. Assignment. Any attempt to assign this Agreement by the Services Provider without the prior written consent of the City shall be void.

8.3. Non-Waiver. The failure to enforce or the delay in enforcement of any provision of this Agreement by a party shall in no way be construed to be a waiver of such provision or right unless such party expressly waives such provision or right in writing.

8.4. Partial Invalidity. If any term of this Agreement should be held by a court of competent jurisdiction to be invalid, void or unenforceable, all provisions not held invalid, void or unenforceable, shall continue in full force and effect.

8.5. Controlling Agreement. To the extent any of the terms or provisions in the Bid conflict with this Agreement, the terms and provisions of this Agreement shall govern and control. Any additional, different or conflicting terms or provisions contained in Services Provider's Bid or any other written or oral communication from Services Provider shall not be binding in any way on the City whether or not such terms would materially alter this Agreement, and the City hereby objects thereto.

8.6. Attorneys' Fees. In the event any action is commenced by either party against the other in connection with this Agreement, the prevailing party shall be entitled to its costs and expenses, including reasonable attorneys' fees, as determined by the court, including without limitation, fees for the services of the City Attorney's Office. This Section 8.6 shall survive the completion of this Agreement until the applicable statutes of limitation expire.

8.7. Entire Agreement. This Agreement constitutes the entire agreement between the parties and supersedes all prior representations, agreements and understandings of the parties. No addition to or modification of this Agreement shall be binding unless executed in writing by the parties hereto.

8.8. Time of Essence. Time is of the essence in the performance of this Agreement.

8.9. Inspection. An authorized representative of the City will inspect the Services at time of performance. If deficiencies are detected, the Services may be rejected and the Services Provider will be required to make necessary repairs, corrections, or replacements. Payment and/or commencement of a discount period will not be made until the corrective action is made, the Services are re-inspected and accepted.

8.10. Further Assurances. The Services Provider shall execute and deliver all such documents and perform such acts as are reasonably requested by the City to complete its obligations under this Agreement.

8.11. Effect of Agreement Termination. In the event this Agreement is terminated, all rights and obligations of the parties hereunder shall cease, other than indemnity obligations and matters that by their terms survive the termination hereof.

8.12. Fiscal Funding Out. The City reasonably believes that sufficient funds can be obtained to make all payments during the term of this Agreement. Pursuant to NRS Chapter 354, if the City does not allocate funds to continue the function performed by the Services Provider under this Agreement, this Agreement will be terminated when appropriated funds expire.


8.13. Public Record. Pursuant to NRS 239.010 and other applicable legal authority, each and every document provided to the City may be a "Public Record" open to inspection and copying by any person, except for those documents otherwise declared by law to be confidential. The City shall not be liable in any way to the Services Provider for the disclosure of any public record, including but not limited to documents provided to the City by the Services Provider. In the event the City is required to defend an action with regard to a public records request for documents submitted by the Services Provider, the Services Provider agrees to indemnify, hold harmless, and defend the City from all damages, costs, and expenses, including court costs and reasonable attorney's fees related to such public records request. This section 8.14 shall survive the expiration or early termination of the Agreement.

8.14. Electronic Signatures. For purposes of this Agreement, the use of facsimile, email or other electronic medium shall have the same force and effect as original signatures.

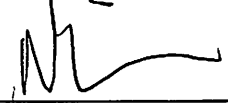
8.15 Federal Funding. Supplier certifies that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, in receipt of a notice of proposed debarment or voluntarily excluded from participation in this transaction by any federal department or agency. This certification is made pursuant to the regulations implementing Executive Order 12549, Debarment and Suspension, 28 C.F.R. pt. 67, § 67.510, as published as pt. VII of the May 26, 1988, Federal Register (pp. 19160-19211), and any relevant program specific regulations. This provision shall be required of every subcontractor receiving any payment in whole or in part from federal funds.

IN WITNESS WHEREOF, the City and the Provider have caused this Agreement to be executed as of the day and year first above written.

City of North Las Vegas,
a Nevada municipal corporation

By: 
John J. Lee, Mayor

Western Environmental Testing Laboratory
a Nevada corporation

By: 
Title: COO

Attest:

By: 
Catherine A. Raynor, MMC, City Clerk

Approved as to Form:

By: 
Micaela Rustia Moore, City Attorney

Exhibit A

Bid

Please see attached page(s).

Mayor
John J. Lee

City Manager
Ryann Juden

Council Members
Scott Black
Pamela A. Goynes-Brown
Isaac E. Barron
Richard J. Cherchio



Finance Department
Purchasing-Risk Management Department
2250 Las Vegas Boulevard, North · Suite #710 · North Las Vegas, Nevada 89030
Telephone: (702) 633-2438 · Fax: (702) 669-3328 · TDD: (800) 326-6868
www.cityofnorthlasvegas.com


March 23, 2020

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing**

Bids will be received electronically only through the Nevada Gov eMarketplace (NGEM) System at www.ngemnv.com until **April 27, 2020 at 10:00 A.M.** (the "Bid Due Date"), and the bids will be publicly opened and read shortly thereafter in Conference Room 703 inside City Hall at the above listed address.

A Pre-Bid Meeting will be not be held at City Hall for this Bid. All questions or concerns must be submitted electronically in the NGEM System or via e-mail to Marie Leake, Buyer, at leakem@cityofnorthlasvegas.com. The cut-off time for all questions is **April 06, 2020, at 12:00 p.m.** If any questions are received, an addendum will be issued to answer those questions and the addendum will be posted in the NGEM System and will be made available at the City of North Las Vegas Purchasing Web Page at <http://www.cityofnorthlasvegas.com/purchasingbidadvertisements/index.php>.

Bid documents may be accessed at www.ngemnv.com or on the City of North Las Vegas Purchasing Web Page (listed above). The City reserves the right to reject any and all Bids, waive any informality or technicality, or to otherwise accept Bids deemed in the best interest of the City.


Catherine A. Raynor, MMC
City Clerk

Published in the Las Vegas Review Journal
(March 23, 2020)

**CITY OF NORTH LAS VEGAS INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing**

1. PUBLIC RECORDS:

The Bid documents and all Bids submitted in response thereto are public records. You are cautioned not to put any material into the Bid that is proprietary in nature. The City is a public agency as defined by state law. As such, it is subject to the Nevada Public Records Law (Chapter 239 of the Nevada Revised Statutes). The City's Records are public records, which are subject to inspection and copying by any person, unless declared by law to be confidential.

2. PERFORMANCE OF WORK:

The selected Respondent shall perform all work as may be necessary to complete the Contract in a satisfactory and acceptable manner, and unless otherwise provided, shall furnish all transportation, materials, equipment, labor and incidentals necessary to complete the project.

3. FORM OF CONTRACT:

Execution of the Contract by all named parties will authorize delivery of services obtained under this Invitation to Bid.

4. ELECTRONIC BID THROUGH NGEM SYSTEM:

Bids must be submitted online through the Nevada Government eMarketplace (NGEM). The NGEM System is an electronic bidding system used by a consortium of local government entities in Nevada for supplier registration and the submission of electronic bids and proposals. The NGEM System is available at www.ngemnvt.com. There is no cost for any Respondent to use the NGEM System, however, all Respondents must register prior to gaining access to see the details of any solicitation and to submit a bid or proposal online. All Bids must be submitted on the NGEM System no later than the Bid Due Date and time. Per the Terms of Use of the NGEM System, Bids may not be submitted after the Bid Due Date, and the server clock will govern.

5. EXPLANATION TO RESPONDENT:

Any explanations desired by Respondent regarding the meaning or interpretation of specifications must be requested in writing and with sufficient time allowed for a reply to reach Respondent before submission of their Bid. Oral explanations given before the award of the contract will not be binding. Any written interpretation made will be furnished to all Respondents and its receipt by the Respondent will be acknowledged. Interpretation of the meaning of the plans, specifications, or other pre-Bid documents will not be binding if presented to any Respondent orally. Every request for such interpretation should be in writing addressed to Marie Leake, Buyer at leakem@cityofnorthlasvegas.com or ATTN: Marie Leake, Buyer, City of North Las Vegas, 2250 Las Vegas Blvd. North, Suite 708, North Las Vegas, NV 89030. Any and all such interpretations and any supplemental instructions deemed necessary will be in the form of a written addendum to the specifications which, if issued, will be mailed or e-mailed to all known prospective Respondents. Failure of any Respondent to receive any such addendum or interpretation shall not relieve such Respondent from any obligation under these Bid documents as submitted. All addenda issued shall become part of the Bid documents.

6. METHOD OF EVALUATION AND AWARD OPTIONS:

The evaluation of this Bid will be conducted by City personnel. The City will award this Bid to the Respondent(s) that submits the lowest responsive and responsible Bid deemed to be in the City's best interest. The City reserves the right to reject all Bids. Pursuant to NRS 332.065(3), the City shall not enter into a contract with a Respondent to this Bid unless the contract includes the written certification that the company is not currently engaged in, and agrees for the duration of the contract not to engage in, a boycott of Israel.

7. ASSIGNMENT OF CONTRACTUAL RIGHTS:

It is agreed that the Contract must not be assigned, transferred, conveyed, or otherwise disposed of by either party in any manner, unless approved in writing by the other party or unless otherwise allowed pursuant to NRS 332.095(2). The Respondent will be an independent contractor for all purposes and no agency, either expressed or implied, exists.

8. CONDITIONS OF BID SUBMITTAL:

- (a) The Bid must be signed by a duly authorized official of the proposing firm or company submitting the Bid.
- (b) No Bid will be accepted from any person, firm, or corporation that is in arrears for any obligation to the City, or that otherwise may be deemed irresponsible or unresponsive by City staff or City Council.
- (c) No Bid will be accepted from any person, firm, or corporation if that person, firm, or corporation or any of its principals are debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from transactions with any federal or state department or agency. By signing and submitting a Bid to the City, the Respondent certifies that no current suspension or debarment exists.
- (d) All Bids shall be prepared in a comprehensive manner as to content, but no necessity exists for expensive binders or promotional material.

9. BID PROTESTS:

The City will publish the Recommendation of Award Notification on the City's website (www.cityofnorthlasvegas.com). Any Respondent may file a notice of protest regarding the proposed award of the Contract by the North Las Vegas City Council. Respondents will have five (5) business days from the date the Recommendation of Award is published to submit the written protest to the City Clerk. The written protest must include a statement setting forth, with specificity, the reasons the person filing the protest believes that applicable provisions of the Bid documents or law were violated. At the time a notice of protest is filed, the person filing such notice of protest shall post a bond with a good and solvent surety authorized to do business in the State of Nevada, and supply it to the City Clerk. The bond posted must be in an amount equal to the lesser of: (i) twenty-five percent (25%) of the total value of the Bid submitted by the person filing the notice of protest; or (ii) two hundred fifty thousand dollars (\$250,000).

A notice of protest filed in accordance with this section shall operate as a stay of action in relation to the award of the Contract until a determination is made by the North Las Vegas City Council. A person who makes an unsuccessful Bid may not seek any type of judicial intervention until after the North Las Vegas City Council has made a determination on the notice of protest and awarded the contract. Neither the City nor any authorized representative of the City is liable for any costs, expenses, attorney's fees, loss of income, or other damages sustained by a person who submits a Bid, whether or not the person files a notice of protest pursuant to this section.

If a protest is upheld, the bond posted and submitted with the notice of protest will be returned to the person who posted the bond. If the protest is rejected, a claim may be made against the bond by the City in an amount equal to the expenses incurred by the City because of the unsuccessful protest.

10. LICENSES:

All Respondents must provide a copy of all appropriate licenses in accordance with the laws of the State of Nevada, prior to submission of Bids for this project. Upon award, the successful Respondent will be required to obtain a North Las Vegas Business License.

11. PUBLIC OPENING:

Bids received will be opened and the name of the Respondent's company will be read publicly at the time and place indicated in the Bid documents. Respondents, their authorized agents, and the public are invited to be present. No responsibility will attach to any City official or employee for the pre-opening of, or the failure to open, a Bid not properly addressed or identified.

12. TERM OF THE CONTRACT:

The Contract shall have a term of two (2) years with two (2), one (1) year extensions or as otherwise stated in the Contract.

13. INSURANCE:

Prior to the commencement of the Contract, each successful Respondent must provide properly executed Certificates of Insurance to the City, which shall clearly evidence all insurance required by the City, including a policy or certificate of comprehensive general liability insurance in which the City, its public officials, officers, employees, agents, and volunteers shall be the named insured or be named as an additional insured. In compliance with this provision, the Respondent may file with the City a satisfactory policy providing a minimum \$1,000,000 "blanket coverage" policy or certificate of insurance. Such insurance will be primary and any insurance or self-insurance maintained by the City will apply in excess of, and not contribute with, the insurance required. Required insurance shall not be canceled, allowed to expire, or be materially reduced in coverage until after 30 days' written notice has been given to and approved in writing by, the City Attorney or the City Risk Manager.

The Respondent shall secure, maintain in full force and effect, and bear the cost of the following insurances throughout the duration of the contract:

COMMERCIAL GENERAL LIABILITY

Each Occurrence	\$1,000,000 each occurrence/accident
Products/Completed Operations	\$2,000,000 aggregate
Property Damage	\$1,000,000
Personal/Advertising Injury	\$1,000,000
COMBINED SINGLE LIMIT OF	\$1,000,000
Aggregate of	\$2,000,000

AUTOMOBILE LIABILITY

Bodily Injury - - - - -	\$1,000,000 each accident
Property Damage - - - -	\$1,000,000 each accident

Coverage must include all owned, leased, hired, non-owned and employee non-owned vehicles, where applicable, Personal Injury Protection.

WORKERS' COMPENSATION

Nevada Statutory Requirements

If no employees, then Exhibit D- Affidavit of Rejection of Coverage for Workers' Compensation must be completed and submitted with response to this Bid. The City, or any of its officers or employees, will not be responsible for any claims or suits in law or equity occasioned by the failure of the successful Respondent to comply with the provisions of this paragraph.

Such insurance shall include the specific coverage set out herein and be written for NOT LESS THAN the limits of liability and coverage provided in the "Insurance Service Office", or required by law and other governing agencies, whichever is greater. The cost of this insurance shall be deemed included in the Bid prices and no additional compensation will be made.

In addition, the Respondent shall furnish evidence of a commitment by the insurance company to notify the City by registered mail of the expiration or cancellation of the insurance policies required not less than 30 days before the expiration or cancellation is effective.

14. INDEMNITY:

The successful Respondent agrees to defend, indemnify, and hold the City, its officers, agents, and employees, harmless from any and all liabilities, causes of action, claims, damages, losses, expenses, proceedings, actions, judgements, reasonable attorneys' fees, and court costs which the City suffers or its officers, agents, or employees suffer, as a result of, or arising out of, the negligent or intentional acts or omissions of Respondent, its subcontractors, agents, and employees, in the fulfillment or performance of the work described herein until such time as the applicable statutes of limitation expire.

15. PROVISIONS PROVIDED BY LAW:

Each and every provision and clause required by law to be inserted in the Contract 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 Contract forthwith shall be physically amended to make such insertion or correction. The Respondent's attention is directed to the fact that all applicable city, county, state, and federal laws, and the rules and regulations of all authorities having jurisdiction over the project shall apply to the Contract throughout its duration and such laws, rules, and regulations will be deemed to be included in the Contract the same as though they had been written out in full herein.

16. ADDENDA INTERPRETATIONS:

If it becomes necessary to revise any part of this Bid, a written or electronic addendum will be provided publicly. The City is not bound by any oral clarifications changing the scope of work for this project.

17. CANCELLATION OF CONTRACT:

The City reserves the right to cancel the award or execution of any contract at any time before the Contract has been approved by the City Council without any liability or claims thereof against the City.

18. TERMINATION FOR CONVENIENCE:

The City shall have the right at any time to terminate further performance of the Contract, in whole or in part, for any reason whatsoever (including no reason). Such termination shall be effected by written notice from the City to the Respondent, specifying the extent and effective date of the termination. On the effective date of the termination, the successful Respondent shall terminate all work and take all reasonable actions to mitigate expenses. The successful Respondent shall submit a written request for incurred costs for services performed through the date of termination within 30 days of the date of termination. All requests for reimbursement of incurred costs shall include substantiating documentation requested by the City. In the event of such termination, the City agrees to pay the successful Respondent, thirty days after receipt of a correct, adequately documented written request. The City's sole liability under this Paragraph is for payment of the costs for the services requested by the City and actually performed by the successful Respondent.

19. **TAXES:**
The City is exempt from state, retail, and federal excise taxes. The Bid price must be net, exclusive of taxes.
20. **EXCEPTIONS:**
Each Respondent must list on a separate document any exceptions to specifications and attach it to their Bid. Exceptions, deviations, or contingencies requested in Respondent's bid response, while possibly necessary in the view of the Respondent, may result in lower scoring or disqualification of a Bid response.
21. **FISCAL FUNDING OUT:**
In the event the City fails to appropriate funds for the performance of the Contract, the Contract will terminate once the existing funds have been exhausted.
22. **LIMITATION OF FUNDING:**
The City reserves the right to reduce estimated or actual quantities, in whatever amount necessary, without prejudice or liability to the City, if funding is not available or if legal restrictions are placed upon the expenditure of monies for the services required under the Contract.
23. **ESCALATION:**
Prices may not be increased during the first two (2) year term (the "Initial Term"). The prices submitted in your Bid must remain firm throughout the Initial Term of the contract. Any intended escalation for the possible extensions must be included in the Respondent's Bid. If escalations are not included for the possible extensions, the price for the Initial Term will apply for each possible extension unless otherwise permitted by the City.
24. **AUDIT OF RECORDS:**
- (a) The successful Respondent agrees to maintain financial records pertaining to all matters relative to this Bid in accordance with standard accounting principles and procedures and to retain all records and supporting documentation applicable to this Bid for a period of three (3) years after completion of this Bid and any subsequent extensions thereof. All records subject to audit findings shall be retained for three (3) years after such findings have been resolved. In the event the successful Respondent goes out of existence, the successful Respondent shall turn over to the City all of its records relating to this Bid. The successful Respondent agrees to give the City access to records immediately upon request.
 - (b) The successful Respondent agrees to permit the City or the City's designated representative(s) to inspect and audit its records and books relative to this Bid at any time during normal business hours and under reasonable circumstances and to copy and/or transcribe any information concerning successful Respondent's operation hereunder, at the City's discretion. The successful Respondent further understands and agrees that said inspection and audit would be exercised upon written notice. If the successful Respondent or its records and books are not located within Clark County, Nevada, and in the event of an inspection and audit, successful Respondent agrees to deliver the records and books or have the records and books delivered to the City or the City's designated representative(s) at an address within the City as designated by the City. If the City or the City's designated representative(s) finds that the records and books delivered by the successful Respondent are incomplete, the successful Respondent agrees to pay the City's or the City's representative(s)' costs to travel (including travel, lodging, meals, and other related expenses) to the successful Respondent's offices to inspect, audit, retrieve, copy and/or transcribe the complete records and books. The successful Respondent further agrees to

permit the City or the City's designated representatives to inspect and audit, as deemed necessary, all records of this project relating to finances, as well as other records including performance records that may be required by relevant directives of funding sources of the City.

- (c) If, at any time during the term of this Bid, or at any time after the expiration or termination of the Bid, the City or the City's designated representative(s) finds the dollar liability is less than payments made by the City to the successful Respondent, the successful Respondent agrees that the difference shall be either: (i) repaid immediately by the successful Respondent to the City or (ii) at the City's option, credited against any future billings due the successful respondent.
- (d) The successful Respondent must assert its right to an adjustment under this clause within 30 days from the date of receipt of the written order; however, if the City decides that the facts justify, the City may receive and act upon an invoice submitted before final payment of the Bid.
- (e) The successful Respondent shall provide current, complete, and accurate documentation to the City in support of any equitable adjustment. Failure to provide adequate documentation, within a reasonable time after a request from the City will be deemed a waiver of the successful respondent's right to dispute.

25. INDEPENDENT CONTRACTOR:

In the performance of services under the Contract, the successful Respondent and any other persons employed by it shall be deemed to be an independent contractor and not an agent or employee of the City. The City shall hold the successful respondent company ("Company") as the sole responsible party for the performance of the Contract. The Respondent shall maintain complete control over its employees. Nothing contained in this Invitation to Bid, the Contract, or awarded by the City shall create a partnership, joint venture, or agency. Neither party shall have the right to obligate or bind the other party in any manner to any third party. The Contract may not be subcontracted.

26. COMPANY PERSONNEL:

The successful Respondent is solely responsible for the supervision and control of its staff performing work under the Contract; however, the City reserves the right to request removal from its premises the successful Respondent's "on site" staff personnel for just cause, and the successful Respondent shall take reasonable action to comply with the request. Upon award of the Contract, a listing of all personnel authorized to participate in the awarded program shall be submitted and included as part of the executed agreement.

27. KEY PERSONNEL:

The City designates Marie Leake, Buyer, as the responsible party for managing this Bid Advertisement. He can be reached at 702-633-2440 or at Marie Leake, Buyer and is available Monday through Thursday from 6am to 4pm.

The City also designates Daniel Ybarra, Operations Supervisor, as the project manager for this service. He can be contacted at 702-633-1124 or at ybarrad@cityofnorthlasvegas.com and is available Monday through Thursday from 8am to 4pm.

The cutoff date for any questions regarding this is **April 06, 2020, at 12:00 p.m. Pacific Standard Time.** Any questions submitted beyond this cut off time will not be answered.

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing**

DEFINITIONS

Bid - document submitted by Respondent in NGEM to the City of North Las Vegas offering the product or service that meets the requested specifications. Respondent will fill out the bid document with their price offering and complete all required documents

Certificates of Insurance – a document issued by an insurance company/broker that is used to verify the existence of insurance coverage under specific conditions granted to listed individuals. This document should list the effective date of the policy, the type of insurance coverage provided and the type and dollar amount of applicable liability and shall list the City of North Las Vegas, its public officials, officers, employees, agents, and volunteers, as an additional insured.

City - the City of North Las Vegas.

City Attorney – the lawyer employed by the City, who is legally appointed as legal counsel to transact business on the City's behalf.

City Clerk - a public officer charged with recording the official proceedings and vital statistics of the City.

City Council - the legislative body that governs the city.

City Manager - a person not publicly elected but appointed by the City Council to manage the City.

City Records - information, minutes, files, accounts or other records which the City is required to maintain, and which must be accessible to scrutiny by the public.

City Staff - any person currently employed by the City.

Contract – the written agreement between the City and the Respondent selected by the City as having the best Proposal, as approved by City Council and fully executed by the parties.

Invitation to Bid - the official legal published advertisement of the bid requirements.

Key Personnel - defined City employees listed in Paragraph 27.

Pre-Bid Meeting – a meeting that Respondent may attend to have the project requirements defined. This allows the Respondent to ask questions necessary to enable Respondent to provide a bid.

Nevada Public Records Law – as defined in NRS Chapter 239.

Purchasing Department – Department that reviews the bids for compliance to specifications, reviews the pricing, and awards the bid to the most responsive and responsible Respondent.

Recommendation of Award Notification – notification to the general public the City has recommended a Respondent who has been selected based on having the best bid/proposal by meeting the Criteria listed in the bid/Proposal documents. This Recommendation of Award goes to the City Council and upon City Council approval will be selected to fulfill the requirements as outlined in the bid.

Representative – person who represents a company and compiles questions to enable the company to submit a bid that accurately identifies the City's requirements.

Respondent – Vendor who offers the requested product or service to the City on the official bid document.

Subcontractor – a person who, or business that, contracts to provide some service or material necessary for the performance of another's contract.

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing**

SCOPE OF WORK

PROJECT BACKGROUND AND DESCRIPTION STATEMENT

The City of North Las Vegas conducts its Water Reclamation Facility and Industrial Pretreatment and drinking water testing with one vendor.

The testing for the WRF consist of daily, weekly and quaterly testing of influent and effluent samples with the Acute Toxicity Testing on a monthly basis and Chronic Testing on a quarterly basis.

All laboratory test reports shall be submitted in a hard copy and spreadsheet format both of which may be emailed to the WRF and periodic water testing to Utilities Dept. A list of all test required are listed below. The City may add or remove testing as necessary.

1. Scope of Work:

The City of North Las Vegas us requesting laboratory services for the following sections:

Water Reclamation Facility Discharge

- Daily Analysis

Daily Testing Influent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Ammonia, as N - CWA	SM4500NH3 D	Wastewater	
Kjeldahl Nitrogen, Total (TKN)	SM4500NORG B	Wastewater	

Daily Testing Effluent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Ortho-Phosphate as P	SM4500P E	Wastewater	
Ammonia, as N - CWA	SM4500NH3 D	Wastewater	
Fecal Coliform	SM9222D	Wastewater	

- Weekly Analysis

Weekly Testing Influent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	

Total Suspended Solids - CWA	SM2540D	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Ammonia, as N - CWA	SM4500NH3 D	Wastewater	
Kjeldahl Nitrogen, Total (TKN)	SM4500NORG B	Wastewater	
Ortho-Phosphate as P	SM4500P E	Wastewater	
Total Dissolved Solids- CWA	SM2540C	Wastewater	
Anions-CWA (Cl,F,NO2,NO3,SO4)	EPA 300.0	Wastewater	Fluoride

Weekly Testing Effluent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Ortho-Phosphate as P	SM4500P E	Wastewater	
Ammonia, as N - CWA	SM4500NH3 D	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Kjeldahl Nitrogen, Total (TKN)	SM4500NORG B	Wastewater	
Total Dissolved Solids- CWA	SM2540C	Wastewater	
Nitrogen, Inorganic-Calc. Only	calc.	Wastewater	
Anions-CWA (Cl,F,NO2,NO3,SO4)	EPA 300.0	Wastewater	Cl,F, N02, N03, 504
Fecal Coliform	SM9222D	Wastewater	

Weekly Testing Influent CNLV WRF Reuse Water			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Groundwater	
Total Suspended Solids - CWA	SM2540D	Groundwater	
Total Nitrogen	Calc.	Groundwater	

- Monthly Analysis

Monthly Testing Effluent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
Acute Toxicity Testing	EPA2021.0	Wastewater	Bioassay - 48 Hour
Acute Toxicity Testing	EPA2021.0	Wastewater	Bioassay - 96 Hour

- Quarterly Analysis

Quarterly Testing Influent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	
Total Dissolved Solids- CWA	SM2540C	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Anions-CWA (Cl,F,NO2,NO3,SO4)	EPA 300.0	Wastewater	Fluoride
Ammonia, as N - CWA	SM4500NH3 D	Wastewater	

Kjeldahl Nitrogen, Total (TKN)	SM4500NORG B	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Fecal Coliform	SM9222D	Wastewater	
Metals, 200.7 - CWA	EPA 200.7	Wastewater	B, Fe
Metals-SDWA 200.8	EPA 200.8	Wastewater	Sb, As, Be, Cd, Cr, Cu, Pb, Mo, Ni Se, Ag, Tl, U, Zn
Total Recoverable Mercury	EPA245.2	Wastewater	
Semi VOC (SVOC)	EPA625	Wastewater	See attachment A
Organochlorine Pesticides & PCB	EPA608	Wastewater	See attachment A
2,3,7,8-Tetrachlorodibenzo-p-dioxin	EPA1613B	Wastewater	
Total Cyanide	SM4500	Wastewater	
Volatile Organic Compounds (VOC)	EPA624	Wastewater	See attachment A
Total Recoverable Boron	EPA 200.2	Wastewater	
Total Recoverable Iron	EPA 200.2	Wastewater	
Total Recoverable Manganese	EPA 200.2	Wastewater	
Sulfide, total (as S)	SM 4500S2	Wastewater	

Quarterly Testing Effluent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	
Total Dissolved Solids- CWA	SM2540C	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Ortho-Phosphate as P	SM4500P E	Wastewater	
Anions-CWA (Cl, F, NO ₂ , NO ₃ , SO ₄)	EPA 300.0	Wastewater	Cl, F, NO ₂ , NO ₃ , SO ₄
Ammonia, as N - CWA	SM4500NH ₃ D	Wastewater	
Kjeldahl Nitrogen, Total (TKN)	SM4500NORG B	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Fecal Coliform	SM9222D	Wastewater	
Nitrogen, Inorganic-Calc. Only	calc.	Wastewater	
Metals, 200.7 - CWA	EPA 200.7	Wastewater	B, Fe
Metals-SDWA 200.8	EPA 200.8	Wastewater	Sb, As, Be, Cd, Cr, Cu, Pb, Mo, Ni Se, Ag, Tl, U, Zn
Total Recoverable Mercury	EPA245.2	Wastewater	
Semi VOC (SVOC)	EPA625	Wastewater	See attachment A
Organochlorine Pesticides & PCB	EPA608	Wastewater	See attachment A
2,3,7,8-Tetrachlorodibenzo-p-dioxin	EPA1613B	Wastewater	
Total Cyanide	SM4500	Wastewater	
Phenolics, Total CWA	EPA420.1		
Volatile Organic Compounds (VOC)	EPA624	Wastewater	See attachment A
Asbestos	EPA100.0	Waterwater	
Chronic Toxicity Testing - 7		Waterwater	Ceriodaphnia dubis,

Day			Pimephales promelas - If necessary
Total Recoverable Boron	EPA 200.2	Waterwater	
Total Recoverable Iron	EPA 200.2	Waterwater	
Total Recoverable Manganese	EPA 200.2	Waterwater	
Sulfide, total (as S)	SM 450052	Waterwater	
Analytical Test-Not Otherwise Spec. WRF			**To Be Requested as needed**

Quarterly- Centrifuge Cake WRF			
Requested Parameters	Method	Matrix	Remarks
TCLP 8-11 including Cu, Mo, Ni, Zn		Aqueous	Inc. Cu, Mo, Ni, Zn
Mercury - CWA	EPA 245.2		
Metals, 200.7 - CWA	SM 200.7		
Preparation for Metals	EPA 200.7		
Volitile Organic Compounds, EPA 8260	EPA 8260B		
TPH-FULL-SOLID		Solid	
TPH - Diesel Range Organics	EPA 8015B		
TPH - Gasoline Range Organics	EPA 8015B		
Total Solids - CWA	SM 2540B	Aqueous	
PH - Food, Soils, Solids	SM 4500+ B	Other	
Anions-CWA (Cl,F,NO2,NO3,SO4)	EPA 300.0	Aqueous	Nitrate, Nitrite
Kjeldahl Nitrogen, Total (TKN)	SM 4500NORG	Aqueous	
Ammonia as N - CWA	SM 4500NH3 D	Aqueous	
Nitrogen, Total - Calc. Ony	Calc.	Aqueous	
Nitrogen, Organic - Calc. Ony	Calc.	Aqueous	
TCLP SVOC, EPA 8270 - Soil		Soil	Incl. Total Cresol

Quarterly- Fine Screen WRF			
Requested Parameters	Method	Matrix	Remarks
TCLP 8-11 including Cu, Mo, Ni, Zn		Aqueous	Inc. Cu, Mo, Ni, Zn
Mercury - CWA	EPA 245.2		
Metals, 200.7 - CWA	SM 200.7		
Preparation for Metals	EPA 200.7		
Volitile Organic Compounds, EPA 8260			
TPH-FULL-SOLID		Solid	
TPH - Diesel Range Organics	EPA 8015B		
TPH - Gasoline Range Organics	EPA 8015B		
Total Solids - CWA	SM 2540B	Aqueous	
PH - Food, Soils, Solids	SM 4500+ B	Other	
Cyanide, Total - CWA	SM 4500CN C-	Aqueous	Incl. Free Cyanide

Phenolics, Total	EPA420.1	Aqueous	
Flashpoint - CWA	EPA 1010A	Aqueous	
TCLP SVOC, EPA 8270 - Soil		Soil	Incl. Total Cresol
Pesticides, Organo Chlorine- EPA 8081	EPA 8081	Aqueous	
PCB's by EPA 8082	EPA 8082		

Quarterly- Coarse Screen WRF			
Requested Parameters	Method	Matrix	Remarks
TCLP 8-11 including Cu, Mo, Ni, Zn		Aqueous	Inc. Cu, Mo, Ni, Zn
Mercury - CWA	EPA 245.2		
Metals, 200.7 - CWA	SM 200.7		
Preparation for Metals	EPA 200.7		
Volitile Organic Compounds, EPA 8260	EPA 8260B		
TPH-FULL-SOLID		Solid	
TPH - Diesel Range Organics	EPA 8015B		
TPH - Gasoline Range Organics	EPA 8015B		
Total Solids - CWA	SM 2540B	Aqueous	
PH - Food, Soils, Solids	SM 4500+ B	Other	
Cyanide, Total - CWA	SM 4500CN C-	Aqueous	Incl. Free Cyanide
Phenolics, Total	EPA420.1	Aqueous	
Flashpoint - CWA	EPA 1010A	Aqueous	
TCLP SVOC, EPA 8270 - Soil		Soil	Incl. Total Cresol
Pesticides, Organo Chlorine- EPA 8081	EPA 8081	Aqueous	
PCB's by EPA 8082	EPA 8082		

- Annual Analysis

Annual Testing CNLV Pre-Treatment			
Requested Parameters	Method	Matrix	Remarks
BOD5	SM5210B	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Total Nitrogen	SM4500	Wastewater	
Total Dissolved Solids	SM2540C	Wastewater	
Total Phosphorus	EPA365.1	Wastewater	
Semi VOC (SVOC)	EPA625	Wastewater	
Total Cyanide	SM4500	Wastewater	
Total Recoverable Selenium	EPA200.7	Wastewater	
Total Recoverable Mercury	EPA245.2	Wastewater	
Total Recoverable Copper	EPA200.7	Wastewater	
Total Recoverable Cadmium	EPA200.7	Wastewater	
Total Recoverable Arsenic	EPA200.7	Wastewater	
Total Recoverable Zinc	EPA200.7	Wastewater	
Total Recoverable Silver	EPA200.7	Wastewater	
Total Recoverable Nickel	EPA200.7	Wastewater	
Total Recoverable Lead	EPA200.7	Wastewater	

Total Recoverable Chromium	EPA200.7	Wastewater	
Total Recoverable Beryllium (as Be)	EPA200.7	Wastewater	
Total Recoverable Cobalt	EPA200.7	Wastewater	
Total Recoverable Tin	EPA200.7	Wastewater	
Oil and Grease	EPA418.1	Wastewater	
Analytical Test-Not Otherwise Spec.			**To Be Requested as needed**

- Periodic Analysis

Periodic Testing CNLV Drinking Water			
Requested Parameters	Method	Matrix	Remarks
Fecal Coliform	COLILERT-18	Drinking water	
Analytical Test-Not Otherwise Spec.			**To Be Requested as needed**
Analytical Test-Not Otherwise Spec.			**To Be Requested as needed**

Attachment A

VOC's by EPA 624 Include:	SVOC's by EPA 625 Include:	
1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethylene 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,3-Dichloropropene Dichlorobromomethane Ethylbenzene Methylene chloride Trans-1,2 Dichloroethylene 1,1,2,2-Tetrachloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 2-Chloro-1-octyl vinyl ether, (mixed) Acrolein Acrylonitrile Benzene Bromoform Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Dibromochloromethane Hexachlorobutadiene Methyl bromide (Bromomethane) Methyl chloride (Chloromethane) Tetrachloroethylene Toluene Trichloroethylene Vinyl Chloride	2,4-Dichlorophenol 2,4-Dinitrophenol 2,4-Dichlorophenol 4-Chloro-3-methylphenol 1,2-Diphenylhydrazine 1,4-Dichlorobenzene 2,4,6-Trichlorophenol 2,4-Dimethylphenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Chloronaphthalene 2-Chlorophenol 2-Nitrophenol 3,3-Dichlorobenzidine 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether 4-Nitrophenol Acenaphthene Acenaphthylene Anthracene Benzidine Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Bis(2-chloroethoxy) methane Bis(2-chloroethyl) ether Bis(2-chloroisopropyl) ether Bis(2-ethylhexyl) phthalate Butyl benzyl phthalate Chrysene Dibenzo(a,h)anthracene	Diethyl phthalate Dimethyl phthalate Di-n-butyl phthalate Di-n-octyl phthalate Fluoranthene Fluorene Hexachlorobenzene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone Naphthalene Nitrobenzene N-Nitrosodiphenylamine N-Nitrosodimethylamine N-Nitrosodi-N-propylamine Pentachlorophenol Phenanthrene Phenol Pyrene

Pesticides & PCB's by EPA 608 Include:			
PCB-1221	.gamma. – BHC	Endosulfane sulfate	Toxaphene
PCB-1242	4,4-DDD	Endrin aldehyde	
PCB-1254	4,4-DDE	Heptachlor	
.alpha.- BHC	4,4-DDT	Heptachlor epoxide	
.alpha.- Endosulfan	Aldrin	PCB-1016	
.beta. – Endosulfan	Chlordane	PCB-1232	
.beta. – BHC	Endrine	PCB-1248	
.delta. – BHC	Dieldrin	PCB-1260	

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing**

EXHIBIT LISTING

Exhibit A - Offer Statement and Business Information which consists of the following:

- (a) An individual authorized to bind the Company should sign the statement, and the date signed should follow the signature.
- (b) Provide the name and phone number of the representative authorized to negotiate on behalf of the Respondent and answer questions regarding the Bid.
- (c) Provide copies of all Respondent's held state and local licenses applicable to performance of the subject potential Contract. Any Respondent conducting business must have a City of North Las Vegas Business License upon award of the contract. Information concerning City Business License requirements and fees may be obtained by calling the Business Services Division at 702-633-1520. However, a business license is not required to provide a Bid to the City.
- (d) Acknowledgement of any Bid addenda.

Exhibit B – Qualifications and Experience of Respondent

Exhibit C –Affidavit of Rejection of Coverage for Workers' Compensation under NRS 616B.627 and NRS 617.210 (If applicable, this form must also be notarized)

Exhibit D – Non-Collusion Affidavit ** this form must be notarized **

Exhibit E – Written Certification Required by NRS 332.065(3) for contracts with an estimated annual amount required for performance that is in excess of \$100,000.00.

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT A
OFFER STATEMENT AND BUSINESS INFORMATION**

This Bid is submitted in response to **BID B-1563 Water Reclamation Facility Laboratory Testing** and constitutes an offer by this company to enter into a contract as described herein.

<u>Garry Gray</u> AUTHORIZED SIGNATURE NAME (TYPE OR PRINT)	<u>Western Environmental Testing Laboratory</u> LEGAL NAME OF RESPONDENT	
 	<u>4/27/2020</u> DATE	
<u>Business Development</u> TITLE	<u>775-355-0202</u> TELEPHONE NUMBER	<u>775-355-0817</u> FAX NUMBER
<u>475 E. Greg Street, #119</u> ADDRESS OF RESPONDENT		
<u>Sparks</u> CITY	<u>Nevada</u> STATE	<u>89431</u> ZIP CODE
E-MAIL ADDRESS: <u>garryg@wetlaboratory.com</u>		
CNLV-BUSINESS LICENSE NO: _____		
____ A COPY OF MY CNLV BUSINESS LICENSE IS ATTACHED (if applicable)		

FOR INFORMATIONAL PURPOSES ONLY

Is this Respondent a Minority, Women or Disabled Veteran Business Enterprise?

___ No ___ Yes If YES specify ___ MBE X WBE ___ DVBE

Has this Respondent been certified as a Minority, Women or Disabled Veteran Business Enterprise?

___ No ___ Yes If YES specify Certifying Agency _____

Please attach a copy of your certification.

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT B
QUALIFICATIONS AND EXPERIENCE OF RESPONDENT**

Name: Western Environmental Testing Laboratory (WETLAB)

1. Respondent shall provide a brief description of the Responder's qualifications and experience, and number of years in operation.

WETLAB is a full-service environmental testing facility with locations in Sparks, Elko and Las Vegas, Nevada. We specialize in the analysis of wastewater, drinking water, surface & ground water, waste characterization, micro-biology, geochemistry in all sorts of matrices.

WETLAB has 50 employees and has been in business since 2002.

WETLAB is certified to perform analyses in Nevada, California, Wyoming and Idaho.

We have had the privilege of working with the City of North Las Vegas Water Treatment

Facility in the past and are quite familiar with the analytical work to be performed and the

excellent service expected from their vendors. We are looking forward to once again serving

the City of North Las Vegas WTF providing our expertise.

Provide 3 examples of contracts similar in size and scope that have been completed in the past 5 years. The City reserves the right to verify references for the companies identified. Ensure references have given permission to be contacted by the City.

Example Contract 1:

Company Name: Truckee Meadows Water Authority (TMWA)

Company Address: PO Box 30013

Reno, NV 89520

Point of Contact: Kelli Burgess

Phone Number: 775-834-8016

E-Mail Address: kburgess@tmwa.com

Brief Description of Contract Scope: Organic and inorganic water testing as needed, on weekly, monthly, quarterly and yearly basis.

Term of Contract (Base plus Option Years): on going

Year of Base Contract Award: 2007

Year Contract Completed: on going

Base Contract Amount: \$ 60K

Total Contract Amount (including all option years) \$ 190K per yr

Did the contract contain a liquidated damages clause? ☐ YES ☒ NO

If yes, were damages assessed? ☐ YES ☐ NO If yes, what was the amount assessed? \$ _____

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT B – QUALIFICATIONS AND EXPERIENCE OF RESPONDENT (Continued)**

Example Contract 2:

Company Name: Lyon County Utilities
Company Address: 34 Lakes Blvd., Suite 103 Dayton, NV 89403
Point of Contact: Joe Carter Phone Number: 775-315-1155
E-Mail Address: jcarter@lyon-county.org
Brief Description of Contract Scope: Organic and inorganic water testing as needed on a weekly,
monthly, quarterly and yearly basis.

Term of Contract (Base plus Option Years): on going
Year of Base Contract Award: 2007 Year Contract Completed: on going
Base Contract Amount: \$ 50K Total Contract Amount (including all option years) \$ 90K per yr
Did the contract contain a liquidated damages clause? ☐ YES ☒ NO
If yes, were damages assessed? ☐ YES ☐ NO If yes, what was the amount assessed? \$

Example Contract 3:

Company Name: Carson City Waste Water/Public Works
Company Address: 3320 E. 5th Street Carson City, NV 89701
Point of Contact: Kristin Eliassen Phone Number: 775-777-7375
E-Mail Address: keliassen@carson.org
Brief Description of Contract Scope: Organic and inorganic water testing as needed on a weekly,
monthly, quarterly and yearly basis.

Term of Contract (Base plus Option Years): on going
Year of Base Contract Award: Year Contract Completed: on going
Base Contract Amount: \$ 50K Total Contract Amount (including all option years) \$ 100K per yr
Did the contract contain a liquidated damages clause? ☐ YES ☒ NO
If yes, were damages assessed? ☐ YES ☒ NO If yes, what was the amount assessed? \$

(ATTACH ADDITIONAL SHEET(S) IF EXTRA SPACE IS NEEDED)

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT C – AFFIDAVIT OF REJECTION OF COVERAGE
FOR WORKERS' COMPENSATION
UNDER NRS 616B.627 AND NRS 617.210**

In the State of Nevada, County of Clark, Western Environmental Testing Lab, being duly sworn,
deposes and says:

1. I make the following assertions pursuant to NRS 616B.627 and NRS 617.210.
2. I am a sole proprietor who will not use the services of any employees in the performance of this Contract with the City of North Las Vegas.
3. In accordance with the provisions of NRS 616B.659, I have not elected to be included within the terms, conditions and provisions of chapters 616A to 616D, inclusive, of NRS, relating thereto.
4. I am otherwise in compliance with the terms, conditions and provisions of chapters 616A to 616D, inclusive, of NRS.
5. In accordance with the provisions of NRS 617.225, I have not elected to be included within the terms, conditions and provisions of chapter 617 of NRS.
6. I am otherwise in compliance with the terms, conditions and provisions of chapter 617 of NRS.
7. I acknowledge that the City of North Las Vegas will not be considered to be my employer or the employer of my employees, if any; and that the City of North Las Vegas is not liable as a principal contractor to me or my employees, if any, for any compensation or other damages as a result of an industrial injury or occupational disease incurred in the performance of this Contract.

I, _____, do here swear under penalty of perjury that the assertions of
this affidavit are true.

Signed this _____ day of _____, 20_____.

Signature _____

State of _____

[SEE ADDENDUM 3]

County of _____

Signed and sworn to (or affirmed) before me on this _____ day of _____, 20_____,
by _____ (name of person making statement).

Notary Signature _____

STAMP AND SEAL



**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT D- Non-Collusion Affidavit**

State of Nevada County of Washoe

_____ being first duly sworn deposes that:

- (1) He/She is the Business Development of Western Enviro Testing Lab, the Respondent that has submitted the attached Bid.
- (2) He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
- (3) Such Bid is genuine and is not a collusive or sham Bid;
- (4) Neither the said Respondent nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Respondent, firm, or person to submit a collusive or sham Bid in connection with the contract or agreement for which the attached Bid has been submitted or to refrain from making a Bid in connection with such contract or agreement, or collusion or communication or conference with any other Respondent, or, to fix any overhead, profit, or cost element of the Bid price or the Bid price of any other Respondent, or to secure through collusion, conspiracy, connivance, or unlawful agreement any advantage against the City of North Las Vegas or any person interested in the proposed contract or agreement; and
- (5) The Bid of service outlined in the Bid is fair and proper and is not tainted by collusion, conspiracy, connivance, or unlawful agreement on the part of the Respondent/team or any of its agents, representatives, owners, employees, or parties including this affiant.

(Signed): _____ [SEE ADDENDUM 3]

Title: **Business Development**

Subscribed and sworn to before me this _____ day of _____ 201__.

Notary Public

My Commission expires: _____



**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT E - Written Certification**

Pursuant to NRS 332.065(3), a governing body or its authorized representative shall not enter into a contract with an estimated value in excess of \$100,000 with a company unless the contract includes a written certification that the company is not currently engaged in, and agrees for the duration of the contract not to engage in, a boycott of Israel.

By signing below, the Respondent agrees and certifies that they do not currently boycott Israel and will not boycott Israel during any time in which they are entering into, or while in contract, with the City. If at any time after the signing of this certification, the Respondent decides to engage in a boycott of Israel, the Respondent must notify the City in writing.

Garry Gray

AUTHORIZED SIGNATURE NAME (TYPE OR PRINT)

Charles G Gray

LEGAL NAME OF RESPONDENT

Garry Gray

AUTHORIZED SIGNATURE

4/27/2020

DATE

TITLE

G Mayor
John J. Lee

City Manager
Ryann Juden

Council Members
Scott Black
Pamela A. Goynes-Brown
Richard Cherchio
Isaac E. Barron



FINANCE DEPARTMENT
2250 Las Vegas Boulevard, North · Suite 710 · North Las Vegas, Nevada 89030
Telephone: (702) 633-2438 · Fax: (702) 669-3328 · TDD: (800) 326-6868
www.cityofnorthlasvegas.com

April 15, 2020

City of North Las Vegas
Bid B1563 – Water Reclamation Facility Laboratory Testing
Addendum No. 3

This addendum 3 is issued to attach alternate versions of Exhibit C & D that can be completed by Bidders who are unable to have forms notarized due to COVID-19 Closures.

Attached is Exhibit C-Declaration of Rejection of Coverage and Exhibit D-Non-Collusion Declaration.

A handwritten signature in black ink, appearing to read 'Marie Leake', is positioned above a horizontal line.

Marie Leake
Buyer
Purchasing Department

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT C – DECLARATION OF REJECTION OF COVERAGE
FOR WORKERS' COMPENSATION
UNDER NRS 616B.627 AND NRS 617.210**

I, Garry Gray, hereby declare as follows:

1. I make the following assertions pursuant to NRS 616B.627 and NRS 617.210.
2. I am a sole proprietor who will not use the services of any employees in the performance of this Contract with the City of North Las Vegas.
3. In accordance with the provisions of NRS 616B.659, I have not elected to be included within the terms, conditions and provisions of chapters 616A to 616D, inclusive, of NRS, relating thereto.
4. I am otherwise in compliance with the terms, conditions and provisions of chapters 616A to 616D, inclusive, of NRS.
5. In accordance with the provisions of NRS 617.225, I have not elected to be included within the terms, conditions and provisions of chapter 617 of NRS.
6. I am otherwise in compliance with the terms, conditions and provisions of chapter 617 of NRS.
7. I acknowledge that the City of North Las Vegas will not be considered to be my employer or the employer of my employees, if any; and that the City of North Las Vegas is not liable as a principal contractor to me or my employees, if any, for any compensation or other damages as a result of an industrial injury or occupational disease incurred in the performance of this Contract.

I declare under penalty of perjury under the law of the State of Nevada that the foregoing is true and correct.

Signed this 27th day of April, 2020.

Signature Garry Gray



- (1) He/She is the Business Development of WETLAB, the Respondent that has submitted the attached Bid.
- (2) He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
- (3) Such Bid is genuine and is not a collusive or sham Bid;
- (4) Neither the said Respondent nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Respondent, firm, or person to submit a collusive or sham Bid in connection with the contract or agreement for which the attached Bid has been submitted or to refrain from making a Bid in connection with such contract or agreement, or collusion or communication or conference with any other Respondent, or, to fix any overhead, profit, or cost element of the Bid price or the Bid price of any other Respondent, or to secure through collusion, conspiracy, connivance, or unlawful agreement any advantage against the City of North Las Vegas or any person interested in the proposed contract or agreement; and
- (5) The Bid of service outlined in the Bid is fair and proper and is not tainted by collusion, conspiracy, connivance, or unlawful agreement on the part of the Respondent/team or any of its agents, representatives, owners, employees, or parties including this affiant.

Signed this 27th day of April, 20 20.

2

Event Number	B-1563 Addendum 3	Organization	Nevada Gov eMarketplace
Event Title	Water Reclamation Facility Laboratory Test	Workgroup	City of North Las Vegas
Event Description	The City of North Las Vegas conducts its Wa	Event Owner	Marie Leake
Event Type	BID	Email	leakem@cityofnorthlasvegas.com
Issue Date	3/23/2020 08:00:00 AM (PT)	Phone	1 (702) 633-2400
Close Date	4/27/2020 10:00:00 AM (PT)	Fax	

Responding Supplier	City	State	Response Submitted	Lines Responded	Response Total
Western Environmental Testing Sparks		NV	4/22/2020 09:04:12 AM (PT)	134	\$137,578.00

Please note: Lines Responded and Response Total only includes responses to specification. No alternate response data is included.

							vironmental Testing Laboratory	
							Total Price	\$137,578.00
Line #	Description	Mfgr	Mfgno	QTY	UOM	Estimated	Unit	Extended
1	Daily Testing Influent - BOD - CWA			313	EACH		\$20.00	\$6,260.00
2	Daily Testing Influent - Total Suspended Solid			313	EACH		\$12.00	\$3,756.00
3	Daily Testing Influent - Phosphorus as P, Tota			313	EACH		\$12.00	\$3,756.00
4	Daily Testing Influent - Ammonia, as N - CWA			313	EACH		\$15.00	\$4,695.00
5	Daily Testing Influent - Kjeldahl Nitrogen, Tot			313	EACH		\$30.00	\$9,390.00
6	Daily Testing Effluent - BOD - CWA			313	EACH		\$20.00	\$6,260.00
7	Daily Testing Effluent - Total Suspended Solid			313	EACH		\$12.00	\$3,756.00
8	Daily Testing Effluent - Phosphorus as P, Tota			313	EACH		\$12.00	\$3,756.00
9	Daily Testing Effluent - Ortho-Phosphate as P			313	EACH		\$10.00	\$3,130.00
10	Daily Testing Effluent - Ammonia, as N - CWA			313	EACH		\$15.00	\$4,695.00
11	Daily Testing Effluent - Fecal Coliform			313	EACH		\$15.00	\$4,695.00
12	Weekly Testing Influent - BOD - CWA			48	EACH		\$20.00	\$960.00
13	Weekly Testing Influent - Total Suspended So			48	EACH		\$12.00	\$576.00
14	Weekly Testing Influent - Phosphorus as P, Tc			48	EACH		\$12.00	\$576.00
15	Weekly Testing Influent - Ammonia, as N - CV			48	EACH		\$15.00	\$720.00
16	Weekly Testing Influent - Kjeldahl Nitrogen, T			48	EACH		\$30.00	\$1,440.00
17	Weekly Testing Influent - Ortho-Phosphate as			48	EACH		\$10.00	\$480.00
18	Weekly Testing Influent - Total Dissolved Soli			48	EACH		\$12.00	\$576.00
19	Weekly Testing Influent - Anions-CWA (Cl,F,N			48	EACH		\$54.00	\$2,592.00
20	Weekly Testing Effluent - BOD - CWA			48	EACH		\$20.00	\$960.00
21	Weekly Testing Effluent - Total Suspended Sc			48	EACH		\$12.00	\$576.00
22	Weekly Testing Effluent - Ortho-Phosphate as			48	EACH		\$10.00	\$480.00
23	Weekly Testing Effluent - Ammonia, as N - CV			48	EACH		\$15.00	\$720.00
24	Weekly Testing Effluent - Phosphorus as P, Tc			48	EACH		\$12.00	\$576.00
25	Weekly Testing Effluent - Kjeldahl Nitrogen, T			48	EACH		\$30.00	\$1,440.00
26	Weekly Testing Effluent - Total Dissolved Soli			48	EACH		\$12.00	\$576.00
27	Weekly Testing Effluent - Nitrogen, Inorganic			48	EACH		\$0.00	\$0.00
28	Weekly Testing Effluent - Anions-CWA (Cl,F,N			48	EACH		\$54.00	\$2,592.00
29	Weekly Testing Effluent - Fecal Coliform			48	EACH		\$15.00	\$720.00
30	Weekly Testing Influent (Reuse Water) - BOD			52	EACH		\$20.00	\$1,040.00
31	Weekly Testing Influent (Reuse Water) - Tota			52	EACH		\$12.00	\$624.00
32	Weekly Testing Influent (Reuse Water) - Tota			52	EACH		\$52.00	\$2,704.00
33	Monthly Testing Effluent - Acute Toxicity Tes			12	EACH		\$276.00	\$3,312.00
34	Monthly Testing Effluent - Acute Toxicity Tes			12	EACH		\$276.00	\$3,312.00
35	Quarterly Testing Effluent - Cronic Toxicity Te			4	EACH		\$792.00	\$3,168.00

36	Quarterly Testing Influent - BOD - CWA	4	EACH	<u>\$20.00</u>	\$80.00
37	Quarterly Testing Influent - Total Dissolved Solids	4	EACH	<u>\$12.00</u>	\$48.00
38	Quarterly Testing Influent - Total Suspended Solids	4	EACH	<u>\$12.00</u>	\$48.00
39	Quarterly Testing Influent - Anions-CWA (Cl,F)	4	EACH	<u>\$54.00</u>	\$216.00
40	Quarterly Testing Influent - Ammonia, as N -	4	EACH	<u>\$15.00</u>	\$60.00
41	Quarterly Testing Influent - Kjeldahl Nitrogen	4	EACH	<u>\$30.00</u>	\$120.00
42	Quarterly Testing Influent - Phosphorus as P,	4	EACH	<u>\$12.00</u>	\$48.00
43	Quarterly Testing Influent - Fecal Coliform	4	EACH	<u>\$15.00</u>	\$60.00
44	Quarterly Testing Influent - Metals, 200.7 - C	4	EACH	<u>\$12.00</u>	\$48.00
45	Quarterly Testing Influent - Metals-SDWA 200.7	4	EACH	<u>\$15.00</u>	\$60.00
46	Quarterly Testing Influent - Total Recoverable	4	EACH	<u>\$25.00</u>	\$100.00
47	Quarterly Testing Influent - Semi VOC (SVOC)	4	EACH	<u>\$150.00</u>	\$600.00
48	Quarterly Testing Influent - Organochlorine P	4	EACH	<u>\$108.00</u>	\$432.00
49	Quarterly Testing Influent - 2,3,7,8-Tetrachloro	4	EACH	<u>\$625.00</u>	\$2,500.00
50	Quarterly Testing Influent - Total Cyanide	4	EACH	<u>\$38.00</u>	\$152.00
51	Quarterly Testing Influent - Volatile Organic C	4	EACH	<u>\$75.00</u>	\$300.00
52	Quarterly Testing Influent -Total Recoverable	4	EACH	<u>\$12.00</u>	\$48.00
53	Quarterly Testing Influent -Total Recoverable	4	EACH	<u>\$12.00</u>	\$48.00
54	Quarterly Testing Influent -Total Recoverable	4	EACH	<u>\$12.00</u>	\$48.00
55	Quarterly Testing Influent -Sulfide, total (as S	4	EACH	<u>\$36.00</u>	\$144.00
56	Quarterly Testing Effluent - BOD CWA	4	EACH	<u>\$20.00</u>	\$80.00
57	Quarterly Testing Effluent - Total Dissolved Solids	4	EACH	<u>\$12.00</u>	\$48.00
58	Quarterly Testing Effluent - Total Suspended Solids	4	EACH	<u>\$12.00</u>	\$48.00
59	Quarterly Testing Effluent - Ortho-Phosphate	4	EACH	<u>\$10.00</u>	\$40.00
60	Quarterly Testing Effluent - Anions-CWA (Cl,F)	4	EACH	<u>\$54.00</u>	\$216.00
61	Quarterly Testing Effluent - Ammonia, as N -	4	EACH	<u>\$15.00</u>	\$60.00
62	Quarterly Testing Effluent - Kjeldahl Nitrogen	4	EACH	<u>\$30.00</u>	\$120.00
63	Quarterly Testing Effluent - Phosphorus as P,	4	EACH	<u>\$12.00</u>	\$48.00
64	Quarterly Testing Effluent - Fecal Coliform	4	EACH	<u>\$15.00</u>	\$60.00
65	Quarterly Testing Effluent - Nitrogen, Inorganic	4	EACH	\$0.00	\$0.00
66	Quarterly Testing Effluent - Metals, 200.7 - C	4	EACH	<u>\$12.00</u>	\$48.00
67	Quarterly Testing Effluent - Metals-SDWA 200.7	4	EACH	<u>\$15.00</u>	\$60.00
68	Quarterly Testing Effluent - Total Recoverable	4	EACH	<u>\$25.00</u>	\$100.00
69	Quarterly Testing Effluent - Semi VOC (SVOC)	4	EACH	<u>\$150.00</u>	\$600.00
70	Quarterly Testing Effluent - Organochlorine P	4	EACH	<u>\$108.00</u>	\$432.00
71	Quarterly Testing Effluent - 2,3,7,8-Tetrachloro	4	EACH	<u>\$625.00</u>	\$2,500.00
72	Quarterly Testing Effluent - Total Cyanide	4	EACH	<u>\$38.00</u>	\$152.00
73	Quarterly Testing Effluent - Phenolics, Total C	4	EACH	<u>\$90.00</u>	\$360.00
74	Quarterly Testing Effluent - Volatile Organic C	4	EACH	<u>\$75.00</u>	\$300.00

75	Quarterly Testing Effluent - Asbestos	4	EACH	<u>\$120.00</u>	\$480.00
76	Quarterly Testing Effluent- Total Recoverable	4	EACH	<u>\$12.00</u>	\$48.00
77	Quarterly Testing Effluent- Total Recoverable	4	EACH	<u>\$12.00</u>	\$48.00
78	Quarterly Testing Effluent- Total Recoverable	4	EACH	<u>\$12.00</u>	\$48.00
79	Quarterly Testing Effluent- Sulfide, total (as S	4	EACH	<u>\$36.00</u>	\$144.00
80	Analytical Test-Not Otherwise Spec. WRF	1	EACH	<u>\$3,000.00</u>	\$3,000.00
81	Quarterly-Centrifuge Cake - TCLP 8-11- includ	4	EACH	<u>\$430.00</u>	\$1,720.00
82	Quarterly-Centrifuge Cake - TPH-FULL-SOLID	4	EACH	<u>\$150.00</u>	\$600.00
83	Quarterly-Centrifuge Cake - Total Solids - CW	4	EACH	<u>\$15.00</u>	\$60.00
84	Quarterly-Centrifuge Cake - PH - Food, Soils,	4	EACH	<u>\$10.00</u>	\$40.00
85	Quarterly-Centrifuge Cake - Anions-CWA (Cl,I	4	EACH	<u>\$54.00</u>	\$216.00
86	Quarterly-Centrifuge Cake - Kjeldahl Nitroger	4	EACH	<u>\$30.00</u>	\$120.00
87	Quarterly-Centrifuge Cake - Ammonia as N - (4	EACH	<u>\$15.00</u>	\$60.00
88	Quarterly-Centrifuge Cake - Nitrogen, Total -	4	EACH	\$0.00	\$0.00
89	Quarterly-Centrifuge Cake - Nitrogen, Organi	4	EACH	\$0.00	\$0.00
90	Quarterly-Centrifuge Cake - TCLP SVOC, EPA	4	EACH	<u>\$552.00</u>	\$2,208.00
91	Quarterly- Fine Screen - TCLP 8-11 - including	4	EACH	<u>\$430.00</u>	\$1,720.00
92	Quarterly- Fine Screen - TPH-FULL-SOLID	4	EACH	<u>\$150.00</u>	\$600.00
93	Quarterly- Fine Screen - Total Solids - CWA	4	EACH	<u>\$15.00</u>	\$60.00
94	Quarterly- Fine Screen - PH - Food, Soils, Solid	4	EACH	<u>\$10.00</u>	\$40.00
95	Quarterly- Fine Screen - Cyanide, Total - CWA	4	EACH	<u>\$38.00</u>	\$152.00
96	Quarterly- Fine Screen - Phenolics, Total	4	EACH	<u>\$90.00</u>	\$360.00
97	Quarterly- Fine Screen - Flashpoint - CWA	4	EACH	<u>\$60.00</u>	\$240.00
98	Quarterly- Fine Screen - TCLP SVOC, EPA 8270	4	EACH	<u>\$552.00</u>	\$2,208.00
99	Quarterly- Fine Screen - Pesticides, Organo C	4	EACH	<u>\$154.50</u>	\$618.00
100	Quarterly- Fine Screen - PCB's by EPA 8082	4	EACH	<u>\$90.00</u>	\$360.00
101	Quarterly- Coarse Screen - TCLP 8-11- includi	4	EACH	<u>\$430.00</u>	\$1,720.00
102	Quarterly- Coarse Screen - TPH-FULL-SOLID	4	EACH	<u>\$150.00</u>	\$600.00
103	Quarterly- Coarse Screen - Total Solids - CWA	4	EACH	<u>\$15.00</u>	\$60.00
104	Quarterly- Coarse Screen - PH - Food, Soils, S	4	EACH	<u>\$10.00</u>	\$40.00
105	Quarterly- Coarse Screen - Cyanide, Total - C	4	EACH	<u>\$38.00</u>	\$152.00
106	Quarterly- Coarse Screen - Phenolics, Total	4	EACH	<u>\$90.00</u>	\$360.00
107	Quarterly- Coarse Screen - Flashpoint - CWA	4	EACH	<u>\$60.00</u>	\$240.00
108	Quarterly- Coarse Screen - TCLP SVOC, EPA 8	4	EACH	<u>\$552.00</u>	\$2,208.00
109	Quarterly- Coarse Screen - Pesticides, Organc	4	EACH	<u>\$154.50</u>	\$618.00
110	Quarterly- Coarse Screen - PCB's by EPA 8082	4	EACH	<u>\$90.00</u>	\$360.00
111	Pre-Treatment- Annual Testing - BOD5	23	EACH	<u>\$20.00</u>	\$460.00
112	Pre-Treatment- Annual Testing - Total Susper	23	EACH	<u>\$12.00</u>	\$276.00
113	Pre-Treatment- Annual Testing - Total Nitrog	9	EACH	<u>\$52.00</u>	\$468.00

114	Pre-Treatment- Annual Testing - Total Dissolv	23	EACH	<u>\$12.00</u>	\$276.00
115	Pre-Treatment- Annual Testing - Total Phospl	23	EACH	<u>\$12.00</u>	\$276.00
116	Pre-Treatment- Annual Testing - Semi VOC (S	2	EACH	<u>\$150.00</u>	\$300.00
117	Pre-Treatment- Annual Testing - Total Cyanid	9	EACH	<u>\$38.00</u>	\$342.00
118	Pre-Treatment- Annual Testing - Total Recov	23	EACH	<u>\$15.00</u>	\$345.00
119	Pre-Treatment- Annual Testing - Total Recov	23	EACH	<u>\$25.00</u>	\$575.00
120	Pre-Treatment- Annual Testing - Total Recov	23	EACH	<u>\$15.00</u>	\$345.00
121	Pre-Treatment- Annual Testing - Total Recov	23	EACH	<u>\$12.00</u>	\$276.00
122	Pre-Treatment- Annual Testing - Total Recov	23	EACH	<u>\$15.00</u>	\$345.00
123	Pre-Treatment- Annual Testing - Total Recov	23	EACH	<u>\$12.00</u>	\$276.00
124	Pre-Treatment- Annual Testing - Total Recov	23	EACH	<u>\$12.00</u>	\$276.00
125	Pre-Treatment- Annual Testing - Total Recov	23	EACH	<u>\$12.00</u>	\$276.00
126	Pre-Treatment- Annual Testing - Total Recov	23	EACH	<u>\$15.00</u>	\$345.00
127	Pre-Treatment- Annual Testing - Total Recov	23	EACH	<u>\$12.00</u>	\$276.00
128	Pre-Treatment- Annual Testing - Total Recov	9	EACH	<u>\$12.00</u>	\$108.00
129	Pre-Treatment- Annual Testing - Total Recov	2	EACH	<u>\$12.00</u>	\$24.00
130	Pre-Treatment- Annual Testing - Total Recov	2	EACH	<u>\$12.00</u>	\$24.00
131	Pre-Treatment- Annual Testing - Oil and Gre	23	EACH	<u>\$60.00</u>	\$1,380.00
132	Annual Testing - Analytical Test-Not Otherwis	1	EACH	<u>\$1,000.00</u>	\$1,000.00
133	Period Testing CNLV Drinking Water- Fecal Co	500	EACH	<u>\$15.00</u>	\$7,500.00
134	Period Testing CNLV Drinking Water- Analytic	1	EACH	<u>\$2,000.00</u>	\$2,000.00
135	Period Testing CNLV Drinking Water- Analytic	1	EACH	<u>\$3,000.00</u>	\$3,000.00

\$137,578.00

Line	Responding Supplier	Supplier Notes
33	Western Environmental Testing Laboratory (MDK, LLC)	Rate is for Fathead Acute Toxicity 1-2 Dilutions. The rate is \$420.00 for 5 Dilutions
34	Western Environmental Testing Laboratory (MDK, LLC)	Rate is for Fathead Acute Toxicity 1-2 Dilutions. The rate is \$420.00 for 5 Dilutions
35	Western Environmental Testing Laboratory (MDK, LLC)	Rate is for Fathead Cronic Toxicity 1-2 Dilutions. The rate is \$1,590.00 for 5 Dilutions
44	Western Environmental Testing Laboratory (MDK, LLC)	Rate is per EPA 200.7 metal. Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
45	Western Environmental Testing Laboratory (MDK, LLC)	Rate is per EPA 200.8 metal. Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
52	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
53	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
54	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
66	Western Environmental Testing Laboratory (MDK, LLC)	Rate is per EPA 200.7 metal analysis, & requires Digestion EPA 200.2 @ \$12.00 per metals scan
67	Western Environmental Testing Laboratory (MDK, LLC)	Rate is per EPA 200.8 metal analysis, & requires Digestion EPA 200.2 @ \$12.00 per metals scan
76	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
77	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan

78	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
88	Western Environmental Testing Laboratory (MDK, LLC)	No charge for Calculations
89	Western Environmental Testing Laboratory (MDK, LLC)	No charge for Calculations
118	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
120	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
121	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
122	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
123	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
124	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
125	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
126	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
127	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
128	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan

129	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan
130	Western Environmental Testing Laboratory (MDK, LLC)	Metals analysis requires Digestion EPA 200.2 @ \$12.00 per metals scan

Line #	Att #	Attribute Name	Attribute Note	Western Environmental Testing Laboratory (MDK, LLC)
Header	1	Acknowledgment of Addendum	I acknowledge Addendum	Acknowledgment o
Header	2	Acknowledgment of Addendum	I acknowledgement of Ad	Acknowledgment o
Header	3	Acknowledgment of Addendum	I acknowledge Addendum	Acknowledgment o

Responding Supplier	Signature Full Name	Signature Email	Supplier Notes
Western Environmental Testing	Garry Gray	garryg@wetlaboratory.com	WETLAB is quite anxious to once again provide comprehensive analyti



Statement of Qualifications
2016

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Section:

1. Company Overview
2. Capabilities and Services
3. Certifications
4. Quality and Data Management
5. Personnel and Project Experience

Company Overview

Introduction

Western Environmental Testing Laboratory (WETLAB) located in Sparks, Nevada is a full service, client oriented environmental testing laboratory. We have developed products and services specific to Nevada California, Idaho, Wyoming, and the Lake Tahoe basin to better meet our customer's needs.

WETLAB sets itself apart from the usual environmental laboratory by providing superior customer service. Our client services staff is there to assist you with all your testing needs. In addition, every member of our staff is available to our customers and flexible enough to perform whatever tasks are necessary to meet their project needs. We pride ourselves on developing lasting client relationships.

Laboratory

WETLAB specializes in inorganic and organic analyses including metals, wet chemistry, microbiology, geo-chemistry, volatile and non-volatile compounds. We have a history of supporting clients in the Federal Government (BOR, BLM), municipalities, industrial users, and mining industry as well as a broad base of engineering/ consulting clients. In February 2006 we moved into a brand new state-of-the-art facility designed and built to our own specifications.

Locations

The WETLAB main facility is conveniently located at **475 E Greg Street #119** in Sparks, Nevada. The laboratory occupies an 18,500 square foot building that has individual laboratories for the analysis of metals, minerals, inorganic, organic and microbiology constituents. WETLAB also has satellite offices in Elko at **1084 Lamoille Hwy** and Las Vegas at **3230 Polaris Ave, Suite 3 & 4**.

Capabilities and Services

WETLAB personnel have experience with sample matrices that range from typical water and soil matrices to raw sewage and hazardous wastes.

WETLAB routinely provides comprehensive analytical support on a variety of matrices including:

- | | |
|-----------------|----------------|
| • Wastewater | Groundwater |
| • Surface Water | Drinking Water |
| • Soil | Sludge |
| • Wastes | Filters |
| • Rocks | |

A few of the types (or groups) of compounds for which WETLAB provides services are:

- | | |
|--------------------|---------------------|
| • Metals | General Chemistry |
| • Anions | TCLP Compounds |
| • MWMP Extractions | Priority Pollutants |
| • Microbiology | Mining Chemistry |

We perform testing to comply with the following programs:

- | | |
|---------|------|
| • NPDES | RCRA |
| • SDWA | CWA |

Certifications

WETLAB maintains certifications with the states of Nevada and California under a number of different programs. In addition we are on the approved vendor list for the Bureau of Reclamation. The following pages contain copies of our state certifications.

Quality Assurance Synopsis

Quality Policy

The objective of WETLAB is to produce the highest quality data to meet the needs of our clients. The WETLAB quality assurance system ensures that data is produced in an accurate, precise, legally defensible, timely and cost effective manner. Our Quality Assurance Plan (QAP) provides the structure, policies and responsibility for the execution of quality assurance, quality control and quality assessment programs. The QAP establishes a system that continually monitors operations to assure that WETLAB's defined standards of quality are met. Implementation of the quality assurance program is based on documentation of all aspects of the program, validation and statistical control, and periodic verification and inspection. The Quality Control Program monitors the maintenance of the controlled analytical processes. The quality assessment program incorporates all the necessary elements to ensure that the quality control system is functioning effectively.

Ethics and Data Integrity

WETLAB is dedicated to achieving the highest possible data quality. To achieve these goals, we adhere to the following standards of integrity:

- All work assigned will be performed using methods which are based on EPA approved methodologies, Standard Methods, or written Standard Operating Procedures.
- WETLAB personnel will not intentionally report data values that are not the actual values obtained.
- WETLAB personnel will not intentionally report the dates and times of analysis that are not the actual dates and times of analysis.
- WETLAB personnel will not alter or manipulate data that has been properly obtained.
- WETLAB personnel will not intentionally represent another individual's work as their own.
- If a supervisor requests another WETLAB employee to engage in or perform an activity that the employee believes is compromising data validity or quality, the employee has the right to appeal this action to the owner of the company and/or appropriate regulatory agencies, if necessary

Data Management

Laboratory Information Management System (LIMS)

To better serve our clients WETLAB is using Sample Master LIMS to manage samples throughout the laboratory. This software upgrade has enabled us to better monitor data quality, increase laboratory throughput, and track customer projects. WETLAB offers electronic report customization for unique parameters.

Report Formats

There are very few “standard” formats for analytical reports, except those specified by the various government agencies for which WETLAB provides analytical services. Our database allows clients to choose the report format that best suits their needs or establish a customized report format with minimal set-up time.

Most WETLAB report formats are printed by groups of analytical parameters. The groups generally follow the order of the regulations. The report contains all pertinent information, such as: date sampled, date received, clients' sample I.D., analytical method, units, and/or information required by good laboratory practices.

Data Reporting

All data produced by WETLAB meets our stringent quality assurance requirements and is considered confidential information only to be used by that specific client. WETLAB can provide:

- Reports or data via e-mail, or posted to electronic bulletin boards
- Reports or data in a client's database format
- Printed reports via e-mail, fax and mail
- Full data packages meeting specific data validation requirements

Michelle D. Sherven
President

President, MDK, LLC/WETLAB. (2002-Present)

- Responsible for the facilities layout, acquisition and purchase of instruments, as well as the strategic direction of the company.

Regional Sales Manager, Acculabs, Inc. (2001-2002)

- Generate price quotes, produce analytical proposals, and interact with clients before, during, and after the sales process.

Laboratory Director, Acculabs, Inc. (1998-2001)

- Responsible for daily operations of the Laboratory in Sparks Nevada, including management of day-to-day business operations, personnel requirements, marketing and budgetary compliance.

Customer Service Representative, Aqualab Inc. (1997-1998)

- Responsible for all customer communication and sample submittal. Duties include a full range of customer service needs, including preparation of containers for sampling, log in of samples upon receipt, collection of lab data, submittal of final report and invoice to clients.

Chemist, Aqua Tech Environmental Laboratory (1996-1997)

- Started in sample control department and was promoted to Analytical Chemist in the inorganic department.

Education

- BS, Environmental Science, Dickinson College, Carlisle PA (1996)

Nick Ross
Operations Manager

Operations Manager, WETLAB. (May 2008 - Present)

- Responsible for daily operations of the Laboratory, including management of day-to-day technical operations, personnel requirements, acquisition and purchase of instruments, technical staffing and firing, as well as working with the President to devise the strategic direction of the laboratory. Duties also include overseeing all aspects of the laboratory, client services, project management and sales.

Business Development Manager, WETLAB. (July 2007 – May 2008)

- Responsible for managing sales and marketing for the company

Inorganics Supervisor, WETLAB. (2005 - July 2007)

- Responsible for scheduling the work flow of the Inorganics Department, as well as providing technical assistance and support to the production staff. Duties also include primary analyst in the determination of metals content by ICP, GFAA, and CVAA per EPA, Standard Methods, and SW-846 protocols.

Metals Chemist, WETLAB. (2004 - 2005)

- Responsible for sample preparation and metals analysis utilizing ICP, ICP-MS, GFAA, and CVAA. Assists in method development and certification through the successful completion of Performance Evaluation samples.

Program Supervisor, City of Reno (2000 - 2003)

- Responsible for on-going monitoring and evaluation of program operations, inventory levels, and participant communication. Responsible for staff scheduling and program planning

Education

- BS, Chemistry, University of Nevada Reno, Reno, NV (2003)

Andrew D. Smith
QA and Technical Director

Laboratory Director/ QA Manager, WETLAB. (2007-Present)

- Responsible for implementing, reviewing and maintaining the Laboratory Quality Assurance Program, including data review, upkeep of all laboratory QA records, personnel training and certification, and final report review and signatory.

Laboratory Manager, WETLAB. (2003-2007)

- Responsible for daily operations of the Laboratory, including management of day-to-day technical operations, personnel requirements, data review, quality assurance review and report signatory.

Inorganics Supervisor, WETLAB. (2002-2003)

- Responsible for scheduling the work flow of the Inorganics Department, as well as providing technical assistance and support to the production staff. Duties also include primary analyst in the determination of metals content by ICP, GFAA, and CVAA per EPA, Standard Methods, and SW-846 protocols.

Chemist, Acculabs, Inc. (1997-2002)

- Responsible for setting-up and establishing the metals department at the Sparks, NV facility, including method development and certification through the successful completion of Performance Evaluation samples. Utilized classical wet chemistry techniques per EPA and Standard Methods to determine inorganic parameters, and SW-846 protocols in the determination of metals content by ICP, GFAA, and CVAA instrumentation.

Quality Assurance Technician, Hunt-Wesson, Inc. (1996-1997)

- Responsible for performing various analyses, including physical property tests, in order to ensure quality control and product consistency.

Education

- BS, Chemistry, Adams State College, Alamosa CO (1996)

Logan Greenwood

Sample Control Manager

Sample Control Manager, WETLAB (2016 - Present)

- Responsible for daily operations of Sample Control Department. Logan and his staff receive and login samples, disperse to the laboratory and sub-contract facilities and ensure proper handling throughout the sample life.

Project Manager, WETLAB (2013 - 2016)

- Responsible for the client services and project management functions of the laboratory.

Client Services Specialist, WETLAB (2012 - 2013)

- Responsible for proper receiving on login of samples collected and issued to WETLAB by its clients.

Education

- BS, Environmental Studies: Water Quality Technology, Sonoma State University (2012)

Project Experience

- **Client:** **McClelland Laboratories (Nevada)**
- **Contact:** Mr. Gene McClelland,
- **Project:** Analysis of process solutions, water samples, soils and soil leachates to determine their inorganic constituents. This work is done to assess compliance with the Nevada Department of Environmental Protections regulations for water pollution (under NDEP form 0190).

- **Client:** **Lyon County Utilities (Nevada)**
- **Contact:** Mr. Skeet Sellers
- **Project:** Weekly testing of wastewater samples to monitor plant efficiencies and comply with NDEP. Routine analysis includes BOD, TSS, pH, fecal coliform, nitrogen and phosphorus. Additional monthly and quarterly testing of monitor wells and sludge is also required.

- **Client:** **Applied Soil & Water Technology (Nevada)**
- **Contact:** Mr. Steve Morrow
- **Project:** Analyze groundwater, soils, and solids from a mine closure site in Fallon, Nevada. Analyses include metals and inorganic chemicals

- **Client:** **City of Elko WRF (Nevada)**
- **Contact:** Mr. Phil Snyder
- **Project:** Analysis of wastewater and monitor well samples to comply with NDEP requirements. Analyses include a variety of wet chemistry and metals. Also analysis of biosolids for disposal purposes.

- **Client:** **Squaw Valley Ski Corporation (California)**
- **Contact:** Mr. Tom Kelly
- **Project:** Analysis of snowmelt runoff samples for nutrient content to comply with LRWQCB requirements. Also, monthly analysis of drinking water samples for bacteria and other title 22 constituents.

- **Client:** **Barrick Goldstrike Mines, Inc. (Nevada)**
- **Contact:** Ms. Shannon Barngrover
- **Project:** Analysis of MW, WW and soil samples to comply with NDEP requirements. Analyses include a variety of metals, inorganic and organic chemicals.

- **Client:** **Bureau of Reclamation (California)**
- **Contact:** Mr. Victor Stokmanis
- **Project:** Analysis of monitor well and surface water samples to determine their inorganic constituents. Analysis includes a variety of metals and wet chemistry compounds

- **Client:** **SRK Consulting**
- **Contact:** Mr. Jeff Parshley
- **Project:** Analysis of groundwater, soils, monitor well and surface water samples to determine their inorganic constituents. One project included the determination of mineral recovery efficiencies through the analysis of core soil samples using multiple leaching solutions.

Jana Freeman

Laboratory Scientist

Laboratory Scientist, WETLAB (February 2011-Present)

- Utilize classical wet chemistry techniques per EPA, Standard Methods and SW-846 protocols to determine inorganic parameters. Performs sample preparations for all analysis, as well analysis on all bench tests.

Laboratory Manager, WETLAB (July 2008-February 2011)

- Responsible for scheduling the work flow of the production staff, as well as providing technical assistance and support.

Laboratory Scientist, WETLAB (May 2002-July 2008)

- Utilize classical wet chemistry techniques per EPA, Standard Methods and SW-846 protocols to determine inorganic parameters. Performs sample preparations for all analysis, as well analysis on all bench tests.

Laboratory Technician, Acculabs, Inc. (2001-2002)

- Performs sample preparations for metals analysis, as well as daily quality control checks, glassware cleaning and waste disposal.

Laboratory Technician, American Assay Labs (1989)

- Performed sample preparation and metals analysis by FLAA.

Laboratory Technician, Chemax Labs (1989)

- Performed general laboratory duties per Good Laboratory Practices.

Laboratory Technician, Barringer Labs (1980-1989)

- Performed all aspects of sample preparation and analysis relevant to the commercial mining industry, including fire assay. Responsible for the quality control of all samples, as well as training of all new employees.

Education

- Sparks High School, Sparks, NV (1980)

Matthew Weikel

Inorganic Laboratory Manager

Inorganic Laboratory Manager, WETLAB (Sep 2013 – Present)

- Responsible for scheduling the work flow of the production staff, as well as providing technical assistance and support.

Sr. Laboratory Scientist, WETLAB (Nov 2008-Sep 2013)

- Utilize classical wet chemistry techniques per EPA, Standard Methods and SW-846 protocols to determine inorganic parameters. Responsible for the operation of IC, Lachat, ICP-OES, ICP/MS.

Analytical Chemist, Alpha Analytical (2004-2008)

- Utilize techniques per EPA, Standard Methods and SW-846 protocols to determine inorganic parameters. Utilizing instrumentation including IC, HPLC, GC and ICP/MS. Responsible for the maintenance and repair instrumentation

Interim Branch Manager, ALS Chemex (2004)

- Managed the daily operations of Fairbanks, AK sample prep facility.

Fire Assay Chemist, ALS Chemex (2003)

- Performed various assaying procedures for the determination of precious metals.

Analytical Chemist /Environmental Manager, American Assay Laboratories (1998-2002)

- Responsible for daily operations of the Environmental Department, including preparation and analysis of samples and client services.

Education

- BS, Biochemistry, University of Nevada-Reno, Reno, NV (expected 2013)

WETLAB

Western Environmental Testing Laboratory

QUALITY ASSURANCE PLAN

Prepared by: **Western Environmental Testing Laboratory**
475 E Greg Street #119
Sparks NV 89431

For use by: **Western Environmental Testing Laboratory**
475 E Greg Street #119
Sparks NV 89431

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June 2018


WETLAB

Western Environmental Testing Laboratory

LABORATORY QUALITY ASSURANCE PROGRAM REVISION 13 June 2018

Signature of the authorized individuals below constitutes approval of the general format and composition of this manual. Individual sections are coordinated with the parties responsible for their implementation.

Approved By:



Andrew Smith, QA Manager

Date: 6/20/18



Nick Ross, Operations Manager

Date: 6/20/18

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INTRODUCTION

Western Environmental Testing Laboratory (WETLAB) specializes in analytical chemistry and provides a range of services for the environmental industry. These services include chemical analysis for microbiology, inorganics, organics, mining related testing, and metals, from sources such as surface water, groundwater, drinking water, wastewater, soil, sludge, vegetation and hazardous wastes.

The Quality Assurance Plan (QAP) describes the management policy, organizational structure and the specific quality assurance (QA) requirements for inorganic, organic, mining related testing, metals, and microbiological analyses performed at WETLAB. The management at WETLAB advocates the development and use of the best analytical practices as mandated by each testing situation. This QAP adheres to the applicable elements described in ISO/IEC Guide 25-1990, "General Requirements for the Competence of Calibration and Testing Laboratories", and the current revision of the National Environmental Laboratory Accreditation Conference (NELAC) Quality Systems document.

QUALITY POLICY

The objective of WETLAB is to produce the highest quality data which is accurate, precise, legally defensible, and meets our client's data requirements in a timely and cost effective manner. The Quality Assurance program provides guidelines and rules to ensure that all data produced meets or exceeds WETLAB standards. The quality control program of the laboratory ensures the maintenance of the controlled analytical processes. The quality assessment program incorporates all the necessary elements to ensure that the quality control system is functioning effectively. Implementation of the quality assurance program is based on documentation of all aspects of the program, validation and statistical control, and periodic verification and inspection.

WETLAB is committed to continuous improvement and to providing analytical services that are of the highest quality. WETLAB believes that client satisfaction is the most important service our employees can provide.

1.0 LABORATORY ORGANIZATION AND MANAGEMENT

1.1 Organizational Charts

The organization of WETLAB, including QA and reporting functions, is shown in Figure 1-1-1.

1.2 Management Responsibilities

Professional qualifications and experience of the individuals filling these positions are maintained and resumes are kept on file. As pertaining to quality, the specific duties and responsibilities of WETLAB's key personnel, i.e., President, QA Manager, Lab Manager, Operations Manager and Technical staff are described below.

President:

The President is responsible for the oversight of quality and performance of WETLAB. The Laboratory Director reports directly to the President and the President has responsibility for all laboratory activities including implementation of the QA program. The President is also responsible for:

- Providing technical assistance on quality issues to ensure that WETLAB is in compliance with regulatory programs and with the QA program.
- Providing guidance and approving changes in laboratory quality assurance staff.
- Company policy and strategy for quality
- Providing necessary leadership to assure that corporate policy is met
- Providing resources to implement the formal Quality Assurance (QA) program
- Assures that all samples are properly labeled, stored, and logged into the sample tracking system

QA Manager:

The QA Manager reports directly to the Operations Manager and is responsible for the implementation of the WETLAB QA program and compliance with standard operating procedures (SOP). The QA Manager or an approved designee reviews all analytical data and signs all laboratory reports. The QA Manager assures that the laboratory staff has the education, experience, and basic laboratory skills necessary to adequately perform their jobs. The QA Manager is responsible for the health and safety aspects of the laboratory operations including administration of the chemical hygiene and safety plans. The QA Manager has sufficient authority and organizational freedom to identify quality problems; to initiate, recommend or provide solutions; to verify implementation of solutions; and, if necessary, to stop work until the problem is resolved.

The duties of the Laboratory Director / QA Manager include:

- Overall direction and general administration.
- Review of analytical procedures and practices.
- Training and professional development of staff.

- Technical review of proposals, bids, and quotations.
- Review of reports for compliance with WETLAB quality standards and client requirements.
- Notifying the President of deficiencies in the quality system and monitoring of corrective actions.
- Monitor external audits, write responses and ensure corrective actions.
- Development of QA procedures, instructions and plans.
- Maintain surveillance over all applications of the QA plan, make recommendations for resolution of problems, or further evaluation by management.
- Initiate formal corrective action(s).
- Issue stop-work orders for work which is not in compliance with requirements.
- Direct and maintain records of laboratory certification programs.
- Implementation of the Quality Assurance Manual.

Lab Manager:

The Lab Manager reports directly to the Operations Manager and is responsible for the overall supervision of the technical staff with the assistance of the Inorganics Supervisor. The Lab Manager is able to focus attention on the Organics and Microbiology Departments. The Lab Manager plans and implements the overall policies, procedures, and services for the laboratory department. The Lab Manager also ensures efficient and effective departmental operations, including quality control and compliance adherence. The Lab Manager organizes and directs daily activities of the laboratory and is responsible for supervising the laboratory personnel. The Lab Manager will be responsible for mentoring staff and promote their progression through the WETLAB Training Program.

Operations Manager:

The Operations Manager reports directly to the President. The Operations Manager has sufficient authority and organizational freedom to identify efficiency or personnel problems; to initiate, recommend or provide solutions; and to verify implementation of solutions.

The duties and responsibilities of the Operations Manager are as follows:

- Direct and coordinate the overall operation of the laboratory.
- Ensure the effective utilization of staff, adherence to technical requirements, schedules and budgets in order to maximize profits and satisfy clients.
- Responsible for laboratory productivity and turnaround times.
- Supervise group leaders whose responsibilities include assigning laboratory priorities.
- Administer LIMS.
- Ensure the adherence to quality requirements on a daily basis by technical staff.

Team Leads:

The Team Leads report directly to the Lab Manager and are responsible for maintaining sample throughput and training supervision of the technical staff located in the Metals, Wet Chemistry and Mining Departments and assists the Lab Manager. The Team Leads organize and direct daily activities of the Metals, Wet Chemistry and Mining Departments and is responsible for mentoring staff and promotes their progression through the WETLAB Training Program.

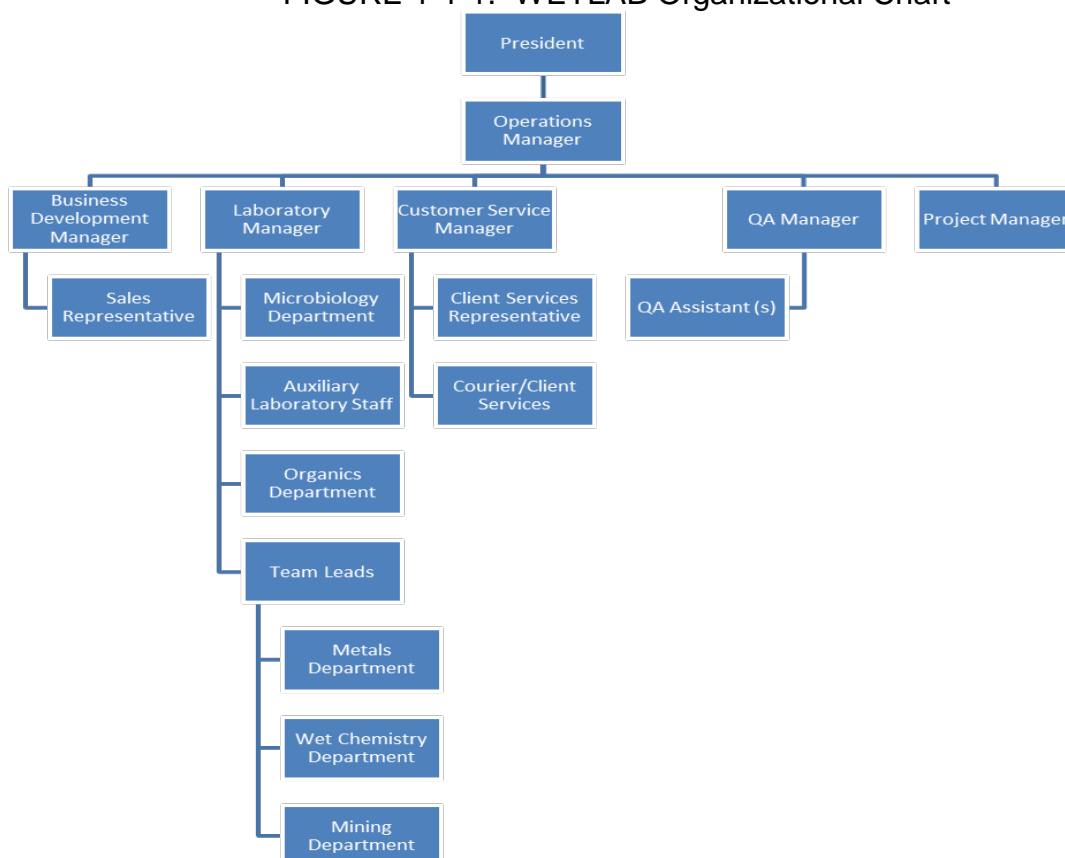
Technical Staff:

All WETLAB analysts have the primary responsibility for performing their jobs in accordance with the WETLAB SOP's and QA manual. They work together with their co-workers and supervisor to ensure that the company's high standard for quality is upheld. They perform and document calibration, preventative maintenance, data processing, and data review procedures. Report any nonconformance to their supervisor and QA Manager.

1.3 Ethics Policy

WETLAB utilizes a clearly stated ethics policy which is discussed with all new employees during orientation. The employee is required to understand the high standards of integrity implied in the duties performed and the data reported in connection with their employment at WETLAB. They understand that intentionally reporting data values that are not the actual values obtained; intentionally reporting days and times of analyses that are not the actual dates and times of analyses; and, intentionally representing another individual's work as their own will be cause for dismissal. They are also required to inform WETLAB of any accidental or intentional reporting of falsified data by themselves or other employees.

FIGURE 1-1-1. WETLAB Organizational Chart



2.0 QUALITY SYSTEMS

2.1 Quality Assurance Program

The purpose of this laboratory QA/QC Plan is to provide an overview of the quality systems in effect at WETLAB. The QA program is documented by written policies and procedures. The policies and practices of the quality system presented in this plan are set forth as minimums. Additional quality measures may be required for specific projects.

The principle objective of the QA Program at WETLAB is to provide a product of documented quality which fulfills the requirements of each client's project. The QA program was developed to follow the intent of the ISO/IEC Guide 25-1990, "General Requirements for the Competence of Calibration and Testing Laboratories" and, the National Environmental Laboratory Accreditation Conference (NELAC) Quality Systems manual. Both laboratory management and clientele as means of reviewing analytical results for accuracy and reliability utilize the QA program. The basic philosophy regarding quality as detailed in these documents has been used as a guideline for the development of the QA Program at WETLAB. The Program addresses general activity in the following areas:

1. Laboratory Organization and Management
2. Quality Systems
3. Personnel Training and Certification
4. Laboratory Facilities
5. Instrument Calibration, Verification and Maintenance
6. Reagent, Standard and Procurement Control
7. Test Methods and Standard Operating Procedures
8. Sample Management
9. Data Handling, Reporting and Record Keeping
10. Records
11. Statistical Quality Control
12. Laboratory Health and Safety and Waste Management

Within the first 30 days of employment, all new staff is oriented as to the basic elements of the QA Program. QA Program orientation is documented and records are maintained by the QA Department. As part of the basic orientation, new personnel are required to read and understand the QA/QC Plan. It is also a requisite for all staff to read any new revision of the Plan to keep current with the QA Program.

Orientation as to specific requirements of each department is the responsibility of the department supervisory staff during training of new personnel. The personnel certification procedure describes the specific requirements for obtaining, maintaining and documenting certification of staff.

Analysts are assigned analytical duties commensurate with their education, experience and training. Only those personnel experienced in the use of analytical instrumentation are permitted to operate the equipment. A person with the necessary expertise must supervise inexperienced personnel until the former have attained proficiency in the use of a particular piece of equipment. Following an initial training period, laboratory personnel are evaluated by a certified analyst on all aspects of their position. Each analyst must demonstrate the necessary working knowledge of the technical and theoretical aspects of his specialty and

position. An individual is authorized to perform only the functions in which they have demonstrated competence.

All equipment necessary for conducting laboratory analyses is maintained and calibrated prior to use. Trained personnel analyze the samples and data and generate the reports. Within the analysis cycle there are specified inspection points beyond which analysis data do not progress until these data have been reviewed and approved. Therefore, data are continually checked throughout the analysis and report preparation cycle.

The QA program functions to ensure that the clients are provided with a product of documented quality. The program is scrutinized and modified when necessary to fulfill the requirements of the client and to continually improve the program.

2.2 QA Reports to Management

For day-to-day reporting, a Corrective Action Report (CAR) (Appendix E) is initiated for situations requiring immediate attention. Distribution of these documents includes the Laboratory Manager, QA Manager and/or Team Leads who must acknowledge, approve and sign corrective action(s) to remedy out-of-control situations.

Results of both external and internal performance audits are distributed to laboratory management for review and action, as appropriate. After acceptable corrective action responses are received and verified for all noted deficiencies, the audit is closed and management receives a written status report.

2.3 Audits

2.3.1 Internal Audits

Planned and scheduled internal audits are performed to verify compliance with all aspects of the QA program and to determine its effectiveness. It is intended that internal QA audits be utilized as a management tool for enhancement of project operations, functions and quality. Internal audits are conducted in any calendar year in which an external audit is not anticipated.

Internal systems audits for each department are performed during years when no external agency is auditing. These audits are performed by QA personnel in accordance with written procedures and checklists. The QA Manager performing or overseeing these audits has stop-work authority for the activities audited. The scope of these audits include: verification of compliance to the quality systems and technical evaluation in the areas of control of equipment, personnel certification, analytical SOPs, sample ID and storage, standards preparation and tracking and data documentation. Audit results are reported in writing to responsible management for review and corrective action, if necessary. A maximum of 30 days is given to respond to the original report. The original copy of the completed report, with responses, is kept on file by the QA Department. QA personnel follow up by verifying the effectiveness of the implemented corrective action.

Additionally, all laboratory notebooks are routinely reviewed by the analyst and a second reviewer to assure correctness of sample and QC calculations. All active laboratory data books and QC files are subject to periodic audits/surveillances by QA personnel and/or Supervisors.

Raw data evaluations will be based on the following completed information, as applicable:

- Parameter and method
- Instrument ID and settings
- Date and initials of analyst
- Valid standard curve
- Frequency of QC
- QC calculations and recoveries
- Sample calculations
- Neatness and ease of data interpretation

Reviewed data will be documented as "reviewed by" and signed (initials) and dated by the reviewer.

An effective Quality program provides rapid and thorough correction of QC problems. Corrective Actions minimize the questionability of the data.

2.3.2 External Audits

When the results from an external on-site audit or performance evaluation study are received by the QA Department, a summary of the results will be distributed to appropriate laboratory personnel, i.e., the Lab Manager and Group Leader(s).

If deficiencies exist, the QA Manager or Lab Manager will issue a response addressing the findings and resultant steps to correct the deficiency. Upon receipt of all corrective action responses, a formal corrective action report will be forwarded to the respective outside client or agency.

2.3.3 Management Review

The laboratory management conducts a review of its quality system and its testing and calibration activities to ensure its continuing suitability and effectiveness and to introduce any necessary changes or improvements in the quality system and laboratory operations. The following criteria are reviewed:

- Internal/External audit results and responses and corrective action reports
- Error reports from each department
- Interlaboratory comparison tests/proficiency samples
- Client concerns and/or complaints
- Changes in the volume or type of work
- EH&S incidents having the potential of affecting client analyses
- Assessment of current certifications

These reviews are done weekly with all management in attendance, a copy of the review will be distributed as necessary to departmental staff in order to correct any findings or deficiencies associated with their department. All records are maintained by the QA Department.

2.3.4 Performance Evaluation Audits

As part of an on-going laboratory QA/QC program, WET LAB routinely participates in semi-annual Water Pollution (WP), Water Supply (WS), and Soils Performance Evaluation Studies and in round-robin proficiency testing and laboratory certification programs conducted by the local and state agencies. These studies are procured from a National Institute of Standards and Technology (NIST) accredited laboratory

2.4 Corrective Actions

In addition to providing acceptance criteria and specific protocols for corrective actions in the SOPs, WETLAB implements general procedures to be followed to determine when departures from documented policies, procedures and quality control have occurred. These procedures identify:

- 1) Individual(s) responsible for assessing each QC data type;
- 2) Individual(s) responsible for initiating and/or recommending corrective actions;
- 3) Define how the analyst should treat a data set if the associated QC measurements are unacceptable;
- 4) Specify how out-of-control situations and subsequent corrective actions are to be documented; and,
- 5) Specify procedures for management to review corrective action reports.

To the extent possible, samples shall be reported only if all quality control measures are acceptable. If a quality control measure is found to be out of control, and the data are to be reported, all samples associated with the failed quality control measure shall be reported with data qualifiers, as appropriate, and notations in the accompanying case narratives.

2.4.1 Corrective Actions from Internal Indicators

Monitoring systems in the laboratory are designed to help ensure not only that reported data are of known and documentable quality, but also that the quality reflects the degree of excellence expected and demanded by WETLAB personnel and clients. Quality indicators for the effectiveness of these monitoring systems include both internal and external audits and/or surveillances to measure performance against established criteria for good laboratory practices. When evaluation of these quality indicators shows an unsatisfactory condition affecting the quality of services provided, a Corrective Action Report (CAR) must be initiated.

Immediate corrective action to correct or repair non-conforming equipment and systems is generally initiated as the result of QC procedures. An analyst will know immediately, for example, that an instrument has drifted out of calibration if it does not meet the allowable QC criteria, and can take immediate action to repair the system.

Corrective action may also be initiated due to QA issues. These are most often identified during audits. Corrective action in this case involves an investigation into the root-cause of the non-conformance, and may take much longer to identify and resolve. Staff training, SOP revision, replacement of equipment, and LIMS reprogramming, are among the many types of long-term corrective action that may result from a QA audit.

All corrective actions will comprise the following steps to ensure a closed-loop corrective action system:

- Define the problem
- Assign responsibility for investigating the problem
- Determine a corrective action to eliminate the problem
- Assign and accept responsibility for implementing the corrective action
- Establish effectiveness of the corrective action and implement the correction
- Verify that the corrective action has eliminated the problem

The initial responsibility to monitor the quality of a function or analytical system lies with the individual performing the task or test. Quality indicators are evaluated against laboratory established or client specified QC requirements. If the assessment reveals that any of the QC acceptance criteria are not met, the analyst must immediately assess the analytical system to correct the problem. When an acceptable resolution cannot be met and/or data quality is negatively impacted, the analyst will notify the Group Leader or Laboratory Director.

When the appropriate corrective action measures have been defined and the analytical system is determined to be "in control" or the measures required to put the system "in control" have been identified and scheduled, the problem and resolution or planned action is documented on the appropriate form.

The QA Department has the authority to stop the analysis and to hold all analyses of samples affected by an out-of-control situation. The method cannot be restarted without documentation leading to the QA Department's approval to restart the method. For cases where suspension of the method was imposed by QA, QA sign-off is required prior to reinstatement of the affected method.

The Lab Manager and Group Leaders are responsible for correcting out-of-control situations, placing highest priority on this endeavor.

2.4.2 Corrective Actions on Analytical Reports

The "product" or "material" that WETLAB provides to its clients is the completed analytical reports. If an out-of-tolerance condition (error) is discovered, the affected areas are identified and segregated when possible. The department must determine the extent to which any analytical data may have been affected by the out-of-tolerance condition. Documentation of this may appear in the case narrative, report cover letter, corrected report, whichever is appropriate. Several key areas within the laboratory may be affected.

If the analytical results are affected, the department group leader issues a corrective report and, if appropriate, a case narrative may be included.

2.4.3 Client Complaints and Concerns

The President and QA Manager are responsible for directly dealing with client complaints about data quality or incompleteness of data reports. The QA Manager or Lab Manager is responsible for initiation of any required formal corrective actions.

3.0 PERSONNEL TRAINING AND CERTIFICATION

All personnel meet the educational standard as determined by their job duties. Personnel selected for performing laboratory activities shall have the experience or training commensurate with the scope, complexity, or special nature of the activities.

All new WETLAB personnel must read the current QA documents and any subsequent revisions. Orientation as to the specifics of the QA program at WETLAB is conducted and documented for all new staff within the first few weeks of employment.

3.1 Administrative Procedures

The administrative procedures cover all aspects of sample management operation such as sample receipt, login, reporting, purchasing and client services. These procedures are readily available to all staff.

3.2 Laboratory Quality Assurance Plan

In order to produce quality data, it is essential that each employee be familiar with the quality assurance program. A thorough presentation of the program can be found in the Quality Assurance Plan. Each laboratory employee is issued a copy of the manual.

3.3 Health and Safety Orientation and Training

The health and safety of our employees, clients and the public is our greatest concern. Each employee must comply with the safety requirements, practices and procedures. These criteria are drawn from EPA and OSHA requirements, *Good Laboratory Practices*, and requirements obtained from experience and mandated by management. The Health and Safety manual is designed to be dynamic documents, open to revisions and/or additions as needed. All laboratory personnel undergo a health and safety training class (based on the requirements of 29 CFR 1910.1200 and 29 CFR 1910.1450 as applicable to laboratory operations).

3.4 Procedure Manuals

The quality of the data produced is directly related to the methods employed and the training of the analysts and staff. A vital part of our training program involves the complete familiarization of each analyst and staff member to the methods being performed. Procedure manuals (Standard Operating Procedures (SOPs)) are available in each analytical section of the laboratory and the administrative areas. These procedures are reviewed when necessary at a frequency of at least every three years by the technical staff and QA Department. Changes are made with the approval of the technical staff, Lab Manager and QA.

3.5 Initial Demonstration of Performance/Method Validation

All technical laboratory staff must complete an initial demonstration of method performance in conformance with relevant industry/regulatory guidelines for each method they perform. Acceptance criteria are specified in the standard operating procedures.

3.6 Training/Qualifications Documentation

Training files are maintained for each employee that includes documentation of attendance at training seminars, a listing of method certifications successfully completed, and checklists for method specific training requirements. Documentation of personnel qualifications (resumes) are also maintained on file.

To be certified to perform sample analysis, each analyst must demonstrate a working knowledge of the technical and theoretical aspects of their specialty and position. Each analyst is required to undergo individual training in his or her department prior to unsupervised analysis of any samples.

The training consists of at least the following points:

- 1) The trainee shall become familiar with the procedures to be performed along with the reagents and equipment used.
- 2) Successful initial demonstration of method performance is required. Under the direction of a certified analyst, the trainee shall analyze a set of known samples to demonstrate a good working knowledge of the analysis that will be performed. Exceptions to this requirement are microbiology and tests for which spiking solutions are not available, for example, solids analyses, pH, color, or turbidity.
- 3) Finally, the trainee shall go through all the steps of the analysis, including the preparation of standards and reagents. When the trainee has proven competence of the specific analysis, paperwork is completed documenting the trainee's certification.

The originals of current employee technical certifications are kept on file. Certifications are updated as needed.

4.0 LABORATORY FACILITIES

The physical laboratory facility can adversely affect the quality of results unless it complies with minimum requirements set forth by EPA and OSHA or other legal requirements. WETLAB's facility was constructed in accordance with local and state building and safety codes. All fire extinguishers and hood velocities are monitored to ensure compliance with safety regulations. Due to the fast-paced growth of environmental chemistry and microbiology, our facility plan is evaluated periodically as the demand for analyses increases. Appendix G provides more detailed information about the specific laboratory facilities including a floor plan.

5.0 INSTRUMENT CALIBRATION, VERIFICATION AND MAINTENANCE

5.1 Instrument Calibration

All equipment is maintained in proper working order with a written log for maintenance, repair and calibration. Service is provided for much of the major instrumentation by the manufacturer and required maintenance is performed at regular intervals. Where applicable, reference materials certified by NIST, including thermometers, are used for calibration purposes. WETLAB maintains the operating, service and calibration manuals provided by the manufacturer for all laboratory equipment. Maintenance files and service records are maintained for all instruments.

The laboratory utilizes state-of-the-art instrumentation for multi-matrix chemical analyses.

Appendix C provides more detailed information about the specific laboratory equipment.

Instrumentation is controlled, calibrated and maintained according to specified schedules to verify acceptable instrument performance at the time the instrument is used for the generation of analytical data.

All instruments must be calibrated prior to use with known certified traceable reference materials. The manner in which various instruments are calibrated is dependent on the particular type of instrument and its intended use. All sample measurements are made within the calibrated range of the instrument. Preparation of all reference materials used for calibration will be documented in a standards preparation notebook.

Calibration information may be documented in any of several locations. The requirements for calibration vary with each instrument, thus necessitating flexibility in the recording of such information. The calibration data may be documented in an instrument logbook, on the raw data, on equipment specific forms. It is the responsibility of the analyst using the instrument to perform and document the required calibration. Calibration must be done on or before the due date. Calibration records are maintained by the group responsible for the equipment.

If the calibration schedule has not been observed, or the required level of accuracy cannot be attained for a specific instrument, the supervisor is notified and the instrument is placed on "HOLD" and is unavailable for use until the specifications are attained. This is indicated by a "HOLD" sticker placed on the instrument. The instrument logbook shall document the "HOLD" status of the instrument and the effective dates. Should an instrument be found to be out of calibration, all data obtained subsequently to the last successful calibration is evaluated by the Group Leader and appropriate corrective action is taken as deemed necessary.

Instrument calibration typically consists of two types: initial calibration and continuing calibration. Initial calibration procedures establish the calibration range of the instrument and determine instrument response over that range. Typically, three to five analyte concentrations are used to establish instrument response over a concentration range. A blank must be analyzed as well as a calibration check for verification. The calibration curve must meet the linearity requirements of the method, which are listed by method in appendix E and described in the standard operating procedures. If a linear regression is used the coefficient of variation (CV) should be no less than 0.995.

The concentrations of standards used for calibration must be appropriate for the samples to be analyzed. Samples more concentrated than the highest standard are diluted to the working range of the curve. Drinking water analyses must include a low calibration standard at the reporting level concentration.

Continuing calibration usually includes measurement of the instrument response to fewer calibration standards and requires instrument response to compare with certain limits (e.g. $\pm 10\%$) of the initial measured instrument response. Continuing calibration may be used within an analytical sequence to verify stable calibration throughout the sequence, and/or to demonstrate that instrument response did not drift during a period of non-use of the instrument.

5.2 Calibration Verification

Required calibration verification frequency and criteria for inorganic and organic analyses are method specific and are delineated within the respective SOP and Appendix E.

No instrument calibration verification is employed in the methods for acidity, alkalinity, BOD, color, corrosivity, DO, gravimetric oil and grease, hardness, ignitability and all of the solids methods.

For microbiology, total coliforms must be accompanied by a blank and for fecal coliforms, a positive and negative control must be run with each new lot of media.

5.3 Instrument Maintenance

Corrective action in the form of maintenance may be required in cases where an instrument either continues to fail initial calibration or drifts out of calibration. Regularly scheduled preventive maintenance may also be used in accordance with the manufacturer's suggested program. Each instrument has its own maintenance log that is used to document all maintenance activities performed on the instrument.

6.0 REAGENT, STANDARD AND PROCUREMENT CONTROL

At the center of all analytical procedures are the reagents, chemicals, stock cultures and other materials. The quality of these items is directly related to the quality of the data produced. To ensure that our analysts are using the most current reagents and chemicals, our laboratory has a cross-check system that begins with purchasing and continues through disposal. This system provides minimum standards to ensure our analytical results are not compromised.

6.1 Purchasing

It is the responsibility of each analyst to ensure that all depleted reagents, chemicals and materials in his/her area are ordered correctly and in a timely manner so there is always a sufficient supply. The request is written on a Purchase Order form (P.O.) and submitted to the Laboratory Director for final written approval. Following final approval, the purchasing agent assigns a sequential purchase order number (from the P.O. log) to the request and places the order. A copy of the purchase order is given to shipping and receiving. The quoted prices from the vendor are verified, and then each P.O. is filed in numerical order in the Purchase Order file. When the materials are received, the packing list is compared with the purchase order by the shipping and receiving personnel. If all packing slips, invoices and prices are correct the invoice is submitted for payment. All invoices for each vendor are collected and attached to a voucher apron for approval. In the event an invoiced price does not coincide with the quoted price, the package is returned to the purchasing agent for reconciliation with the vendor. Once the paperwork has been corrected, it is again submitted to the payables section for review and payment.

6.1.1 Laboratory Reagents and Standards

The quality of reagents used depends upon the nature of the analysis. "Analytical Reagent" grade is used when no minimum requirement is stated. When necessary for a particular procedure, a higher grade reagent is obtained. High purity acids

and/or solvents are used for digestions or extractions for trace level analyses. Gases utilized for analyses are of several different grades depending on analytical and instrumental requirements. The tanks are labeled according to the grade of gas in the cylinder.

6.2 Receiving

All materials, chemicals, instrument and sample shipping and receiving are handled through the shipping and receiving area. Non-sample materials are distributed from the central storage area to the appropriate departments. Organic solvents, acids and dry chemicals are marked with the received date. Material Safety Data Sheets (MSDS) that may accompany chemicals or standards are filed in binders and are stored on a bookshelf in the main lab as a central reference source, available to all employees. Standard certificates are sequentially numbered, logged into a standard database maintained by the QA department, and retained by the group leaders. Items received broken or missing pieces are noted in the log and then given to the purchasing agent for reconciliation.

6.3 Storage

Proper chemical storage is essential to the quality of the data generated as well as the safety of the analysts and staff. All stock organic solvents and acids are stored in fire-proof, OSHA-approved metal storage cabinets. Dry chemicals in use are stored in a cool, dry area in each laboratory. Chemicals and standards requiring refrigeration are retained in a unit temperature controlled at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$. Stock cultures are stored in a freezer at -26°C and working cultures are stored at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$. To prevent cross contamination, refrigerated chemicals and standards must be stored in a separate unit from samples and sample extracts.

6.4 Chemical and Standard Labeling and Tracking

A standard format for labeling of reagents, stock cultures, chemicals and standards is necessary to provide traceability, consistent information, maintenance of current solutions and an orderly appearance. Upon arrival, each solvent, acid, chemical and standard container is labeled with the following information (in plain view without obscuring any information on the original container label). The date received and log number (log numbers are found in the reagent receiving log book) are noted on the label prior to storage. The initials of the receiving party are noted in the reagent receiving log book. It is the responsibility of the analyst to note the date opened and his/her initials on the label. Each standard is logged into the standard logbook for that department. A unique WETLAB lot # is assigned to each standard prepared. This number is also written on the standard container.

In the case of organic standards, which may arrive several vials to a box, the date received and initials are marked on the outside of the box. As each vial or ampule is used, the analyst notes the date opened and initials the vial or ampule label. If the entire contents are used, the date opened is noted in the organic standards prep log with the lot number and analyst's initials. If a vial or ampule is used as a reagent in an organic extraction and is entirely consumed, the date opened, initials, lot number and manufacturer are noted in the extraction log.

Dilution's made from commercially prepared standards or reagents and solutions prepared

from dry chemicals are placed in containers consistent with the type of solution (i.e. organics-glass with Teflon-lined lid or crimp top; inorganics/metals-white Nalgene or glass bottle with a cap). The required label information is as follows: Date prepared, analyst initials, unique standard ID, chemical name, concentration, and expiration date.

Other information such as exact preparation instructions, lot number, and solvent used can be cross-referenced in the solutions/standards prep logs by name and date prepared.

6.5 Disposal

Proper disposal of expired standards, chemicals, biological materials, reagents and solutions is imperative. Most standards, reagents, solutions and chemicals are deemed expired by the manufacturers' supplied expiration date. If no date is available, a laboratory-determined date is given by the user, based on the known stability of the chemical.

These wastes, and their containers if required, are deposited in appropriately labeled satellite receptacles (in accordance with 29 CFR, Part 1910). As these satellites become full, they are transferred to permanent disposal containers as liquid waste by type or lab packed solid wastes or biological materials ("sharps"). (Refer to WETLAB Chemical Hygiene Plan for methods of transfer, personal protection required and documentation and to SOP 11.02 "Sample Disposal and Waste Management.")

Wastes are removed from the laboratory facility on a regular basis. Copies of all manifests and analytical results are retained by the Laboratory Director.

Liquid biological wastes, such as total coliform samples, are sterilized by contact with bleach for a minimum of 10 minutes and then disposed of as ordinary liquid waste. Solid biological waste, such as fecal coliform plates or Quantitray trays, are sterilized by either contact with bleach in the same way liquids are or placed in the UV sterilization box for a minimum of 10 minutes and then disposed of as an ordinary solid waste.

7.0 ANALYTICAL METHODS AND STANDARD OPERATING PROCEDURES

7.1 Analytical Methods

Whenever possible, the analytical methods used by WETLAB have been approved and published by State or Federal agencies, such as the U.S. Environmental Protection Agency (USEPA), Department of Energy (DOE), American Public Health Association (APHA), American Society for Testing and Materials (ASTM), or the National Institute for Occupational Safety and Health (NIOSH) as described in WETLAB's SOPs. A list of selected, but not exhaustive, reference documents supported and used by WETLAB, is as follows:

U. S. Environmental Protection Agency, Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, revised March 1983.

ibid. Methods for the Determination of Metals in Environmental Samples-Supplement, EPA-600/R-94-111, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, May 1994.

ibid. Methods for the Determination of Inorganic Substances in Environmental Samples, EPA-600/2-93-100, August 1993.

ibid. Prescribed Procedures for Measurement of Radioactivity in Drinking Water, EPA 600/4-80-032, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, August 1980.

ibid. Methods for the Determination of Organic Compounds in Drinking Water, EPA/600/4-88/039, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, July 1991.

ibid. Methods for the Determination of Organic Compounds in Drinking Water, Supplement I, EPA/600/4-90 Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, August 1992.

ibid. Methods for the Determination of Organic Compounds in Drinking Water, Supplement II, EPA/600/R-92/129, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, April 1990, and updated September 1992 and March 1997.

ibid. Manual for the Certification of Laboratories Analyzing Drinking Water, 4th Edition, EPA/57/9-90/008, Environmental Monitoring and Support Laboratory, Cincinnati, Ohio, April 1990, and updated September 1992 and March 1997.

ibid. Test Methods for Evaluating Solid Waste, SW-846, 3rd Edition, Office of Solid Waste and Emergency Response, Washington, DC, September 1986, and updated September 1994.

Standard Methods for the Examination of Water and Wastewater, 19th Edition, APHA-AWWA-WPCF, Washington, DC, 1995.

Hach Chemical Company, Hach Handbook of Water Analysis, Loveland, Colorado, 1979.

ASTM International, Various methods, 100 Barr Harbor, P.O. Box C700, West Conshohocken, PA., 19428-2959.

Code of Federal Regulations, Appendix A to Part 136-Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, 40 CFR Part 136, 1996.

Prior to implementing new procedures, analyses are conducted using standards, spikes, and duplicate samples as controls. A SOP is also prepared which documents and describes the analytical method. Once the procedure is properly understood by the analyst and acceptable quality control data (detection limits, precision and accuracy) is achieved, the method is placed in the laboratory for use. Quality Control requirements are within individual analytical procedures.

7.2 Standard Operating Procedures

WETLAB maintains several types of procedures: general laboratory practice procedures; program specific procedures; data tracking and reporting procedures; laboratory equipment control procedures; analytical procedures; and, personnel certification and training procedures. All analytical SOPs are reviewed every three years; lab equipment and administrative SOPs are reviewed as needed. All personnel are responsible for conducting quality related activities in compliance with these documents. All forms utilized for recording

analytical records are controlled by the program. The references used for developing the analytical methods are acknowledged in the written SOP. All procedures and forms require review and approval by supervisory staff as well as the QA Department prior to implementation. Procedures are prepared, approved and reviewed in accordance with procedure 9.05, Standard Operating Procedures.

The procedures are written according to established format guidelines. The following outline is observed to incorporate all relevant information in the procedure:

1. Scope and Application
2. Summary of Method
3. Safety
4. Sample Handling and Preservation
5. Interferences
6. Apparatus
7. Reagents
8. Procedure
9. Quality Control
10. Calculations
11. Reporting Format
12. References

Appendix C contains a list of analytical procedures with the associated reference method.

7.3 Analytical Quality Control (QC)

In order to assess the validity of a reported result, QC indicators are placed in the measurement system to provide a tool for evaluating how well the method worked. There are QC indicators to evaluate the method performance at both the preparation and the measurement steps, and QC indicators to evaluate matrix effects.

Most samples to be analyzed in the laboratory require some pre-treatment before a measurement can be made. This may include extraction, digestion, distillation, etc. During the pre-treatment step, samples are arranged into discreet, manageable batches, to facilitate and control uniform treatment for all samples. Each batch will have a maximum of 20 investigative samples of the same matrix (e.g., soil or water). In addition, QC indicators such as blanks, spikes, and duplicates are added to each prep batch to monitor the performance of the system. All QC associated with a batch will be carried through the entire analytical procedure from preparation to final analysis. A blank or reagent blank is used to monitor potential contamination from the sample preparation process. The reagent blank volume or weight must be approximately equal to the sample volumes or sample weights being processed. In the absence of a suitable solid matrix for soil blanks, reagents will be added to an empty flask and carried through the entire analytical scheme. Results will be calculated based on starting with a "blank" soil approximately equal to the weight of the samples.

Specific QC guidelines are given in departmental analytical procedures. Appendix E contains QC criteria by method for inorganics and organics.

Occasionally problems are encountered in meeting the QC requirements. In some cases data may be outside the criteria and still be reported (e.g., when insufficient volume remains to reanalyze). In these cases, a Nonconformance corrective Action Report must be generated by the analyst, and approved by the Laboratory Director or

QA Manager. Additionally, client contact may be necessary to explain the QC problem. If acceptance criteria are still not met after corrective actions have been taken, and no further corrective actions are indicated, the data is reported with a qualifier or flag. Any data qualifiers used will appear on the applicable data report form and will be discussed in the report cover letter or case narrative. Examples of data qualifiers that may be used are shown below.

B	Blank contamination; Analyte detected above the method reporting limit in an associated method blank.
HT	Sample held beyond accepted holding time.
M	Reported value is estimated; the sample matrix interfered with the analysis.
N	There was insufficient sample available to perform a spike and/or duplicate on this analytical batch.
M	The matrix spike/matrix spike duplicate (MS/MSD) values for the analysis of this parameter were outside acceptance criteria due to probable matrix interference. The reported result should be considered an estimate.
SC	Spike recovery not calculated. Sample concentration >4X the spike amount, therefore the spike could not be adequately recovered.
NC	Not calculated due to matrix interference.
Q	Reported value is estimated; the value failed to meet QC criteria for either precision or accuracy.
SA	Reported value was calculated using the method of standard additions.

8.0 SAMPLE MANAGEMENT

8.1 Sample Receiving

Appropriate measures are taken in the handling, storage and shipping of samples and other chemical material to assure compliance with all regulatory requirements.

Samples for analysis may be delivered by the client, picked up by a WETLAB employee, or shipped to the laboratory in coolers with appropriate coolant via a commercial carrier such as UPS, Federal Express, or California Overnight. If a common carrier is used the way bill number and the shipping documents will become part of the permanent project file. Appropriate safety precautions are taken in the laboratory with samples which are classified as hazardous due to a variety of circumstances and/or contaminants. For samples of known hazard, bottles are labeled identifying the hazard. Special care is taken in the handling, storage and disposal of these samples.

The login staff (laboratory personnel properly trained to handle samples of evidentiary nature) are responsible for maintaining custody of the samples during the login and distribution processes and for assuring that all records documenting that possession are properly completed. Samples that require refrigeration will not be allowed to warm to room

temperature during the login and distribution processes. The date, time, and sample integrity upon receipt is documented by the login staff. After verification that all samples listed on the COC form are in possession, the "Received By Laboratory" space on the COC is signed. The samples are then placed in the secure sample storage area. Standard Operating Procedure No. 11.01 provides additional information regarding sample log in procedures.

There are three major types of samples the laboratory accepts. The procedure and required paperwork for each type are as follows:

- 8.1.1 Analysis required for compliance with SDWA - each sample must be submitted with a Chain of Custody (COC). The client must provide address, system name, PWS (Public Water System) ID, sample date, sample time, collection point, sample collector's name, collection source type and sample type. The sample collector should be the first person to relinquish the samples. Lab personnel should sign and date each COC form. A unique Laboratory ID is assigned and affixed to each container. This number must also be written on the COC that corresponds to each sample.
- 8.1.2 Bacteriological Analysis - Microbiological samples must be submitted in sterilized containers. These are provided to the client upon request. The client must complete a Microbiological form for each sample. This form should include client address, system name, system location, PWS ID, sample date, sample time, collection point, sample collector's name, source type, and sample type. The sample collector should be the first person to relinquish the samples. Lab personnel should date and time each Bac T form. The samples are assigned unique Laboratory ID numbers and the ID number is affixed to the sample container. The samples are taken directly to the microbiologist for analysis.
- 8.1.3 All Other Analyses - each client should complete a COC form for each set of samples. If a client sends samples by delivery/mail, and neglects to include a completed COC, one should be faxed to the client to fill out and sign, then it should be faxed back for login. Before signing the COC, lab personnel should insure the COC contains client's mailing and billing address, phone number, required analysis, sample collector's name, client's sample ID's, sample dates and locations. The sample collector should be the first person to relinquish the samples. In some cases, an analysis must be submitted to another laboratory.

8.2 Sample Login

The Sample Custodian will unpack the samples and check sample preservation (pH, temperature, etc.) in accordance with WETLAB's sample receipt and log-in procedures. The custodian will record any problems encountered, and contact the Project Manager for instructions. If the Project Manager is not available contact the Lab Manager.

A written job file is kept which includes copies of the COCs with cross-referencing information for all samples received and distributed. Any sample projects that have special

handling or rush turnaround time requirements are rapidly identified and the information is communicated immediately to the appropriate lab personnel. Custody seal(s) on shipping container(s) are inspected for evidence of tampering and noted. The sample bottles are counted and verified against the client COC record. Discrepancies in receipt are documented. The COC is signed and dated by the sample custodian.

A unique Laboratory ID Number is assigned in order to group samples that were received together as a set, example: 0903001. The WETLAB ID number is recorded in the Sample Log-In Book along with the client's name, date, sample type, and project name/number. For WETLAB's purposes, the number designations delineate the year (first digit), the month (second & third digits), and the lab number for this project (last three digits). If there is more than one sample in a project, a two-digit extension is added to the Lab Number, example: 0903001-001.

All samples are labeled with the sample number. The information on the clients sample bottle label is checked for consistency with the chain of custody form. Any inconsistencies are corrected by the client.

8.3 Sample Management and Tracking

The WETLAB Laboratory ID Numbers are assigned in order to group samples which were received together as a set. All samples/results are managed by a LIMS system (Sample Master version 8 by ATL.).

When all samples are logged-in, the samples are placed in the appropriate refrigerator and the proper lab is notified of any RUSH samples or any short holding times.

Because the facility is secured and the entrance by the clientele and general public is very restricted, it is not necessary to have an internal Chain of Custody procedure unless requested by the client.

Any sample projects which have special handling or rush turnaround time requirements are rapidly identified and the information is communicated immediately to the appropriate lab personnel. The status of all projects are reviewed daily by technical staff and customer service representatives to assure that all projects get handled as requested by the client or as required by the circumstances.

8.4 Sample Containers and Preservation

After consultation with the client, a sample bottle request is initiated. The type of sample container, volume and required preservatives are indicated on the bottle request form, which is then submitted to Client Services, where the necessary containers are prepared.

The quality and type of containers used for sampling can significantly impact the quality of the analytical results. Sampling containers are purchased pre-cleaned and certified by the manufacturer to ensure there is no induced contamination for metals, volatile organics, and semivolatile organics testing. If a bottle is purchased that is not certified, the appropriate laboratory analyses will be performed to ensure cleanliness.

The size of the sample bottle and the required preservative is mandated by EPA. All sample bottles are prepared in the laboratory according to these instructions. (See Appendix B for listing of containers per analysis type.)

A color coded label indicating the type of analysis is affixed to the bottle, and the appropriate volume of preservative is added. A Chain-of-Custody (COC) form and instruction for sampling are included with the shipment.

Clients are responsible for proper sampling, field filtration, preservation, hazardous sample notations, temperature control and shipments of samples to WETLAB in a proper manner to meet the required holding times.

The pH should be tested on a representative preserved sample from each batch received by the lab, with the exception of volatile organics and TOX. This is done using narrow range pH test strips in a portion of sample that is disposed of after it is checked. If the pH does not meet preservation requirements, it is adjusted as per the method requirement. The pH of all volatile samples is taken by the analyst immediately prior to analysis. Water samples for cyanide analyses are also checked for residual chlorine prior to analysis by the analyst. All exceptions are noted on a Corrective Action Report.

For samples that require thermal preservation the shipping chest is checked to verify that the sample containers are in adequate contact with wet or blue ice.

If a sample is received at the laboratory without preservatives the client is notified and a new sample is requested, if the client requests that sample is to be analyzed, preservatives are added in the prep lab. If it is determined by laboratory personnel that the wrong preservative has been added, the client should be advised and asked to resample.

A listing of the sample preservation requirements for each method is in appendix B.

8.5 Holding Times

Once a sample has been taken, it must reach the laboratory as soon as possible. The time lapse between sample acquisition and analysis must not exceed the EPA required holding times for compliance samples. Appendix B contains a list of sample preservation and holding time requirements for each method. Samples beyond the holding time, which are not for compliance use, may be analyzed at the discretion of the client. A disclaimer is placed on the final report to this effect.

Holding time is defined as the time from sample collection until initiation of analysis. The chain of custody form must include the date and time sampled. For analyses that have the maximum allowable holding time expressed as days, the holding time is expressed in calendar days measured from the date sampled. Analyses with short holding times expressed in hours have the holding time measured in hours from the date and time collected.

Short hold time parameters such as nitrate/nitrite, pH, hexavalent chromium, turbidity, orthophosphate and bacteriological samples are logged in promptly upon arrival. The technical staff is advised immediately by the login staff.

If a required hold time is missed due to negligence on the part of the laboratory, the client is apprised of the situation. Resampling and reanalysis expenses may be negotiated and borne by the laboratory with approval of the Laboratory Director.

8.6 Packing and Shipping

The integrity of a sample is only as reliable as the means used to obtain it. At the center of any sampling procedure is the sample container and packaging. Sampling containers are requested by the client through Client Services. A sample bottle request form is completed by the Client Services Representative and forwarded to the responsible party in the laboratory for same day shipment. Sample bottles requested for pickup from the laboratory or delivery to a client or site contain the necessary preservatives, noted on the labels. These containers are packaged to prevent shifting during transport. It is suggested that clients pack ice chests with sufficient wet ice to ensure that all sample containers stay in contact with ice in the ice chest.

8.7 Chain of Custody Procedures

In order that an analytical process is legally defensible, it must follow a chain of custody procedure. When sample containers are supplied by the laboratory, a COC form accompanies each set to begin the tracking process. Samples seals and tags are available on request. Upon return to the laboratory, the form is checked for completion and cross-checked against the samples submitted. Any discrepancies are immediately resolved with the client. The COC form is signed, dated and time noted by the party relinquishing the samples. The form is signed and dated by laboratory sample receiving personnel to complete the transfer. The original is retained in the client file until released with the final report. The form also includes the following information: identification of tests to be performed on each sample, sample matrix, and laboratory sample identification numbers.

The samples are now in the custody of the laboratory, where they are stored in a controlled storage area until disposal occurs. Access to the storage area is limited to laboratory personnel. All samples remain in the storage area when not in use. Any aliquots of the original samples that are digested or extracted are retained in the designated prep areas for analysis.

Samples transferred to another laboratory are transferred under chain of custody. A copy of the completed chain of custody form is maintained in the laboratory project file. Samples are not subcontracted to another laboratory without client approval.

8.8 Sample Disposal

It is necessary for the safety of all individuals in the laboratory and compliance with DOT and NRC regulations, that all laboratory waste be handled appropriately. In an effort to minimize exposure of laboratory personnel to extremely hazardous materials, hazardous samples are returned to the client for disposal.

The sample storage area(s) is routinely purged of expired samples. Expiration is determined by holding time or a laboratory-imposed date of thirty days following release of the final report, unless otherwise directed by the client. Samples are segregated by matrix type and placed in the appropriate disposal container for transport. All "clean" water samples are flushed to the sewer with abundant quantities of water.

The final disposal site of hazardous materials is determined by the contracted waste disposal company. All containers transported are manifested in accordance with DOT regulations. A copy of the manifest, analytical results and destruction notifications are retained by the Safety Officer or Laboratory Director.

See the WETLAB. Chemical Hygiene Plan and standard operating procedure for sample disposal and waste management (11.02) for details regarding handling and storage of waste products.

8.9 Subcontracting of Analysis

Subcontracting laboratories will be reviewed with an emphasis on their overall quality control practices and compliance with the quality assurance requirements of ISO/IEC Guide 25-1990. Any laboratory used for subcontracting shall be approved by the QA Department or Operations Manager. The subcontracting lab should be asked to submit a copy of their Quality Assurance Manual, certification list and relevant proficiency study results. If testing is subcontracted to another laboratory, the client's documented, verbal authorization is required prior to shipping.

9.0 DATA HANDLING, REPORTING AND RECORD KEEPING

The analytical laboratory business is by nature service-oriented, striving to provide a quality product (analytical data), on time and at a reasonable cost. Important to our business and clients is the systematic approach used in handling the large amount of data that are generated. This system must allow for rapid information access and retrieval, maintenance and storage.

9.1 Laboratory Reporting and Paper Flow

An organized system of workflow through the laboratory is essential to satisfying analytical criteria and laboratory reporting policies. The paperwork process may begin as a price quote. This information is kept as part of the client file. Many samples arrive in the laboratory without notice and are handled by the sample login section. Analyses are completed as described in the sample tracking system. All analytical and quality control data are reviewed by the Laboratory Manager or designee prior to report generation. Once all data have been approved and released for printing, the client file information is assembled and a final report is prepared. The complete package is submitted to the Laboratory Director for final review and approval.

Invoicing occurs as a function of report generation. Prices are determined based on laboratory list prices or a prearranged discount schedule, quote or contract.

Approved methodologies and reporting formats are specified by the appropriate agency for all certified laboratories.

Drinking water parameters, reported to the state, are processed on a form approved by the EPA or applicable state agency. The form lists the maximum contaminant levels (MCL) for those parameters that are regulated.

The standard analytical report will in general contain the following:

- Cover letter with information on method references, client information, sample order ID, and the QA Manager or designee signature.
- A secondary page with pertinent report comments including general comments, specific comments and a data qualifier legend.

- Analytical results reported by sample and by test with appropriate significant figures, and appropriate report limits that have been adjusted for dilution, if necessary. Appropriate information such as dates of analysis, date sampled, analysis method, date received, and date reported.
- If requested by the client, quality control information including laboratory performance checks (LCS and method blanks), and matrix specific QC (matrix spike/matrix spike duplicate) may be included in the report as requested by the client.
- A copy of the COC form.

Other deliverables may also be included such as raw data packages, electronic data transfer or disk deliverables.

9.2 Data Validation, Reduction and Reporting

Data reduction is performed by the WETLAB analysts and consists of calculating concentrations in samples from the raw data obtained from the measuring instruments. The complexity of the data reduction will be dependent on the specific analytical method and the number of discrete operations (e.g., extractions, dilutions, or concentrations) involved in obtaining a sample that can be measured. The analyst will reduce or calculate all raw data into the final reportable values. Copies of all raw data and the laboratory notebooks, strip-charts, chromatograms, spreadsheets and record files will be retained to allow reconstruction of the data reduction process at a later date if necessary.

System reviews are performed at all levels. The individual analyst constantly reviews the quality of data through calibration checks, QC sample results, and performance evaluation samples. The analyst is provided with set acceptance/rejection criteria for the performance of each analytical method. A listing of data acceptance criteria and corrective action procedures can be found in Appendix E. Data that fails to meet the criteria specified is brought to the attention of the supervisor or Lab Manager. Reanalysis or “flagging” the data may be necessary. If reanalysis is not possible due to insufficient sample or loss of holding time, the client is notified. If the client elects to have the data reported, it will be “flagged” with a data qualifier that will appear on the final report describing the problem with the quality control. These reviews are performed prior to submission to the supervisor, laboratory director, or another qualified analyst for a second level of review. The supervisor and/or the Lab Manager review the data to ensure consistency with laboratory QC requirements, to verify reasonableness with other generated data, and to determine if program requirements have been satisfied. A selected amount of the hard copy output of the data will be reviewed to ensure that results are interpreted correctly. The reviewer checks the following items:

- Data calculations and quantitation of compounds including any dilution factors
- Sample holding times
- Calibration and Quality control acceptability
- Interpretation of chromatograms, identification of compounds

Unusual or unexpected results will be reviewed, and a resolution will be made as to whether the analysis should be repeated.

Prior to final review and sign-off by the Laboratory Director or a designee, a third level administrative review is performed for compliance to the laboratory and client QC requirements, and to ensure that the case narrative covers any noted deficiencies. An invoice, any necessary QC reports, data packages or EDDs are generated at this time. The Laboratory Director performs the final review prior to reporting the results to the client.

Data audits are also performed by regulatory agencies, client representatives, or third party data validators. The frequency, level of detail, and the areas of concern during these reviews are dependent on the specific program requirements. Third party data validation done by or at the request of a regulatory agency or client will generally be conducted according to specific technical review protocols, such as EPA's Laboratory Data Validation Functional Guidelines.

Reports will contain final results, units, date/time collected, and analysis date. In addition, special analytical problems, and/or any modifications of referenced methods will be noted. Additional information may be included in reports upon request. The number of significant figures reported will be consistent with the limits of uncertainty inherent in the analytical method. Consequently, most analytical results will be reported to no more than two or three significant figures.

9.2.1 Electronic Data Deliverables (EDD) File Verification

EDD verification ensures that measures are taken to provide clients with error free electronic data files. There are two methods for generating the EDD. Both methods required a 2nd person review to verify the EDD is consistent with the raw data and hard copy report.

9.2.1.1 Electronic Transfer

Transferring information directly from calculation software to electronic data transfer (EDT) file is ideal due to elimination of transcription errors.

9.2.1.2 Manual Transfer

Data entered into EDT file manually requires the person to verify that the information was transferred accurately.

The 2nd person verifying the electronic data file may do so by computer screen or hard copy.

9.3 Storage

An appropriate data storage facility is essential in maintaining the integrity of data generated for future use. Each final report and associated data package are retained within the laboratory for five years.

9.4 Data Retrieval

The retrieval of previous data is often requested for legal purposes and is required immediately. Our retrieval policy has been instituted to facilitate this process and to provide compensation for laboratory personnel removed from their current workload. A request by the client for retrieval of past data is charged at a rate commensurate with the age of the report. For data older than two years, the retrieval is charged at the current secretarial rate per hour. This rate is applied from the time physical removal from storage begins until the complete package is assembled and ready for pickup or

delivery. Should an analyst or group leader become involved in a retrieval project, the charges increase to the billable chemist rate per hour. The client is invoiced for all charges incurred with the data package.

10.0 RECORDS

Quality Assurance records are documents generated in support of quality related activities. All original issues of controlled documents such as standard operating procedures and Quality Assurance manuals are lifetime records and are archived indefinitely. Completed analytical records documented on controlled forms are non-permanent and are archived for a minimum of five years prior to disposal. The documents, as well as data packages, are organized by the appropriate department in uniquely numbered file boxes.

The distribution of controlled documents is monitored internally to the affected staff and externally to individuals requiring the information. Changes to controlled documents are subject to approval of the QA Department.

10.1 Laboratory Data Control

Raw data are retained for a minimum of five years and disposed of thereafter. Exceptions are clients who specify in the contract document that raw data is to be transferred to their custody at the end of the five year period. Each analytical section of the laboratory is issued laboratory notebooks specific to an instrument and/or method. The following information must be included for each analysis:

- Analysts signature (once per page and day)
- The instrument used in the analysis. If a laboratory has more than one instrument of a particular model, a unique designation must be given to each.
- Calibration curve correlation coefficient (if applicable)
- Calibration and Spiking Standards Identification
- Analytical procedure used
- Date and time
- WETLAB laboratory sample number
- Any deviations from standard analysis procedures such as dilutions.

Any blank sections left open on a page will be crossed out. All entries will be in dark colored ink that can be easily photocopied. To ensure that all raw data is documented completely, a notebook audit is performed by the QA department or Laboratory Director a minimum of once per quarter. This audit encompasses a check for all required quality control and documentation procedures outlined in the SOPs.

A unique control number is issued for all laboratory logbooks, including instrument run logs, maintenance logs, calibration logs, extraction logs, and standard preparation logs. The logbooks are bound, labeled with the logbook number, and have each page numbered. A record is maintained of all logbooks, including the control number, date issued, date completed. Completed logbooks are archived in a central storage location.

Organic chromatograms and inorganic integrator printouts are maintained in files clearly labeled with the date, instrument number, and method. The complete data folder is submitted with the sample data report forms to the QA Manager or designated technical staff for review. After review the data folders are filed by instrument and by date.

11.0 STATISTICAL QUALITY CONTROL

WETLAB's overall QA objectives are to meet the analytical needs of the client with respect to accuracy, precision, completeness, representativeness, comparability, legal defensibility and timeliness. EPA precision and accuracy criteria are used as method specific criteria to accept or reject analytical data. When these criteria are either not available or not applicable, WETLAB will base the accept/reject criteria on the performance of similar methods and the historical performance at WETLAB. WETLAB meets the needs of the client for precise, accurate data by adhering to these criteria or other appropriate criteria as required.

11.1 Precision

Precision and accuracy are determined from the results of the routine batch quality control (QC) samples. The samples are duplicates or matrix spike duplicates and matrix spikes.

Precision is defined as the measure of the mutual agreement among individual measurements of the same chemical constituent in a sample (duplicates) secured under the same analytical protocols.

Laboratory precision will be expressed as relative percent difference (RPD) of the duplicate sample values.

$$RPD = \frac{|A - B|(2)}{A + B} \times 100$$

a = First sample value of duplicate analysis

b = Second sample value of duplicate analysis

The acceptance limits are set based on the nature of the material being analyzed (sample or standard) and are found in each SOP. Samples that fall outside the respective limits are reanalyzed at the advisement of the section supervisor and QA Manager.

11.2 Accuracy

Accuracy is defined as the degree of agreement of a measured value with the true value of the quantity of concern. Accuracy will be measured as percent recovery for lab control samples or matrix spikes as the primary criteria and percent recovery of the surrogate spikes as a secondary QC criteria for applicable analyses.

$$\text{Percent Recovery} = \frac{\text{SSR} - \text{SR}}{\text{SA}} \times 100$$

Where:

SSR = Spike sample result

SR = Sample result

SA = Spike added from spiking standard

11.3 Control Charts

The use of control charts for statistical monitoring provides a visual interpretation of the precision and/or accuracy of an analytical method. Control charts enable the analyst to detect a trend or bias in a procedure at the time the analysis is performed. The ability to identify a deviation in the performance of a method may prevent the need for reanalysis later or be an indication of impending instrument malfunction. When used correctly and consistently, control charts provide a means of validating analytical methods.

The applicability of control chart techniques is based on the assumption that the laboratory data approximates a normal distribution.

The chart for standards is constructed from the target and standard deviation of a standard. It includes upper and lower warning levels (WL) and upper and lower control levels (CL). Common practice is to use $\pm 2s$ and $\pm 3s$ limits for the WL and CL, respectively, where s represents standard deviation. The chart can be set up by using either the calculated values or by using percentages. Percentage is necessary if the concentration varies.

Control charting is performed using appropriate software. The monthly values are entered for a standard or calibration check and are used by the system to generate the limits and mean of the control chart. Each subsequent value emerged is plotted on the chart. Values exceeding the control limits are unacceptable. These standards are rerun or remade as necessary. Values showing a trend over time may be an indication of a deteriorating standard or instrument malfunction. A method exhibiting a bias of seven consecutive points above or below the mean is considered out of control and corrective action must be taken.

Any out of control situation should be brought to the attention of the group leader and/or the QA Manager. New cumulative control limits are generated and maintained in each department on an annual basis.

11.4 Expression of Results

An integral part of producing quality data is reporting the data in the units applicable to the method used and the matrix analyzed. It is imperative that the correct units and/or conversion factors be used to ensure that the final result is not misleading. Units versus method and matrix should be checked at each step of the review process. Any errors detected should be reviewed with the group leader or analyst to determine the correct result and units.

11.5 Significant Figures

A primary objective in reporting analytical data is to present the data so it may be interpreted properly with reference to the accuracy of the analytical method used. To avoid ambiguity in reporting results or in presenting directions for a procedure, it is necessary to use "significant figures".

All the digits in a reported result are expected to be known definitely except the last digit, which may be in doubt. Such a number is said to contain only significant figures. If more than a single doubtful digit is carried, the extra digit or digits are not significant. If an analytical result is reported as "75.6 mg/L", the analyst should be quite certain of the "75", but may be uncertain as to whether the ".6" should be .5 or .7, or even .4 or .8, because of unavoidable uncertainty in the analytical procedure. If the standard deviation is known from

previous work to be ± 2 mg/L, the analyst should round off the result to "76 mg/L" before reporting it. Alternately, if the method is so efficient that a result of "75.61 mg/L" can be conscientiously reported, then the analyst should not round it off to 75.6.

Any digit that is necessary to define the specific value or quantity is said to be significant. When measured to the nearest 1 m, a distance may be recorded as 157 m; this number has three significant figures. If the measurement had been made to the nearest 0.1 m, the distance may have been 157.4 m; this number has four significant figures.

11.5.1 Zeros are significant when they occur in the middle of a number or at the end of a number on the right-hand side of the decimal point. For example, the following significant zeros are underlined: 106, 0.0106, 0.106, 0.1060.

11.5.2 If a series of operations is to be performed (addition, subtraction, multiplication, division), all figures are carried through the calculations, then the final answer is rounded to the proper number of significant figures. The final result is expressed in terms of the number that has the least significant figures. For example, $39.3 \times 3.5 = 137.55$, but since 3.5 has only two significant figures, the final result should be expressed at 140.

11.5.3 Unless otherwise specified in the contract, WETLAB routinely reports two significant figures for analytical results, and three significant figures for quality control samples.

11.6 Rounding

Rounding off of digits is a necessary operation in all analytical areas. However, when it is applied in calculations incorrectly or prematurely, it can adversely affect the final results. Rounding off is done only as described in the following:

11.6.1 When the first digit discarded is less than five, the last digit retained should not be changed. For example, 3.46325, if rounded to four significant figures, would be 3.463; if rounded to three significant figures, 3.46.

11.6.2 When the first digit discarded is greater than five, or if it is a five followed by at least one digit other than zero, the last digit retained should be increased by one unit. For example, 8.37652, if rounded to three significant figures would be 8.38; if rounded to four digits would be 8.377.

11.6.3 When the first digit discarded is exactly five, followed only by zeros, the last digit retained should be rounded upward if it is an odd number, but no adjustment should be made if it is an even number. For example, 4.365, when rounded to three significant figures, becomes 4.36. The number 4.355 would also round to the same value, 4.36, if rounded to three significant figures.

11.7 Linear Regression

Conversion of raw data into analytical results can be achieved by a variety of methods. One of the more common means is linear regression (also known as the method of least squares), the process of forecasting future performance or relations based on past

performance or relations. WETLAB incorporates this method in the majority of its data conversion processes.

The execution of a linear regression calculation is normally performed using a scientific calculator preprogrammed for this function. In linear regression, data are usually expressed as pairs of variables that can be plotted on a graph. The points are usually labeled as "x" and "y". The objective is to determine the value of "y" based on the known value of "x". If sufficient points are available and the functional relationship between the two variables is well defined, a smooth curve can be drawn through the points. If the function is not well defined, linear regression will affix a straight line to the pattern. The correlation coefficient should be calculated for each linear regression line. An acceptable coefficient should be ≥ 0.995 . A coefficient < 0.995 requires re-evaluation or reanalysis of the calibration curve. Manual computation of a linear regression equations is rarely required, but may be accomplished using any comprehensive statistical reference.

11.8 Method of Standard Addition

Occasionally, the determination of analytical data becomes a difficult task due to the nature of a sample matrix and its inherent interferences. The true concentration of the compounds of interest are masked to a point where an alternate analytical procedure must be employed, i.e., the method of standard addition.

For example, a particular sample is believed to contain about 10 ppm of copper. An aliquot of the sample is taken and diluted 10 fold with water. This would make the final concentration of copper 1 ppm. A second aliquot of the sample is taken and copper standard added so the final diluted sample will contain copper at the unknown level plus 0.5 ppm. A third aliquot of the sample is taken and copper standard added so that after dilution the sample will contain the unknown level of copper plus 1.0 ppm.

The signals from the three samples are now measured under the same conditions. A graph is made of the signal obtained versus the concentration of copper added. The three points must lie on the same straight line. The line is now extended to the left of the signal axis into the region of the negative concentration. The concentration of the unknown is read at the point where the calibration line intersects the negative concentration axis. Instrument manuals and SOPs provide the analysts with instructions on how to perform the method of standard addition.

11.9 Development of Detection Limits

The method detection limit (MDL) is defined as the point at which the observed signal can reliably be considered to be caused by the analyte being measured.

WETLAB follows the specification in 40 CFR Part 136, Appendix B to determine method detection limits (MDL). The procedure is further described in WETLAB SOP 9.10. MDL determinations shall be performed annually using standard solutions at approximately 3-5 times the published IDL or MDL for each method, or the concentration value that corresponds to known instrumental limitations. Preparation of the standard solutions shall include all preparation steps (digestion, filtration, extraction, distillation, etc.) that would be used in the preparation of environmental samples. MDLs shall be determined by running the standard solutions seven to ten times, determining the standard deviation of the results, and multiplying the standard deviation by the appropriate "t statistic" from the chart below (taken from Chapter 1, Section 5 of SW-846).

STUDENT'S t VALUES AT THE 99 PERCENT CONFIDENCE LEVEL

Number of Replicates	Degrees of Freedom (n-1)	t(n-1, 0.99)
7	6	3.143
8	7	2.998
9	8	2.896
10	9	2.821

MDL is calculated as follows:

$$MDL = t \times S$$

Where: t = student's t values at the 99% confidence level (see table)

S = Standard deviation

Soil sample MDL determinations for organics may be performed using muffled sand, an appropriate salt or other soil matrix substitute.

The instrument detection limit (IDL) is defined to be three times the average of the standard deviations obtained on three nonconsecutive days from the analysis of a standard solution, with seven consecutive measurements of that solution per day. The standard solutions analyzed shall be prepared at a concentration of 3 to 5 times instrument manufacturer's estimated IDL. Where no such estimated IDL exists, the procedure-specific method detection limit may be used.

MDL studies are not required for acidity, alkalinity, BOD, color, corrosivity, DO, gravimetric oil and grease, hardness, ignitability, pH, titrimetric sulfide, conductivity, any of the solids methods, or turbidity.

12.0 CONTRACT REVIEW

Prior to accepting a contract or order for work, the contractual materials are reviewed to ensure that the clients project requirements are adequately defined and understood, and that the laboratory can meet those requirements. The review process is defined in the procedure for Contract Review, 09.12.

APPENDICES

Appendix A.	Quality Assurance Glossary
Appendix B.	Containers, Preservatives & Holding Times
Appendix C.	Site Specific Information for W.E.T. LAB. Facility
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APPENDIX A

QUALITY ASSURANCE GLOSSARY

Quality Assurance Glossary

Accreditation - A formal process by which a laboratory is evaluated for its competence to perform a specified kind(s) of measurement. Also, the decision based upon such a process. When a certificate is issued, the process is often called certification.

Accuracy - The degree of agreement of a measured quality of concern.

Aliquot - A part which is a definite fraction of a whole; as, aliquot samples for testing or analysis .

Analyte - The specific component measured in a chemical analysis.

Blank - The measured value obtained when a specified component of a sample is not present during the measurement. In such a case, the measured value/signal for the component is believed to be due to artifacts; hence, it should be deducted from a measured value to give a net value due to the component contained in a sample. The blank measurement must be made so that the correction process is valid.

Blind Sample - A sample submitted for analysis whose composition is known to the submitter but unknown to the analyst. A blind sample is one way to test proficiency.

Calibration - Comparison of a measurement standard or instrument with another standard or instrument to report or eliminate by adjustment any variation (deviation) in the accuracy of the item being compared.

Certification - See Accreditation.

Check Standard - A standard originating from a separate source than the calibration standard. This standard is analyzed at a minimum of every ten samples. The results are generally plotted on a control chart to evaluate the measurement process.

Control Chart - A graphical plot of test results with respect to time or sequence of measurement, together with limits within which they are expected to lie when the system is in a state of statistical control.

Control Limit - The limits shown on a control chart beyond which it is highly improbable that a point could lie while the system remains in a state of statistical control.

Detection Limit - The smallest concentration/amount of some component of interest that can be measured

by a single measurement with a stated level of confidence.

Duplicate Sample - A second sample randomly selected from a population of interest to assist in the evaluation of sample variance.

Equipment Blank - Reagent water that is used to rinse sampling equipment. The results are used to verify the decontamination process between samples.

Error - Difference between the true or expected value and the measured value of a quantity or parameter.

Internal Standard - A standard added to each sample at the sample concentration. response of the unknown is compared to the response of the standard.

Laboratory sample - A sample intended for testing or analysis prepared from a gross sample or otherwise obtained. The laboratory sample must retain the composition of the gross sample. Often, reduction in particle size is necessary in the course of reducing the quantity.

Limit of Quantitation (LOQ) - The lower limit of concentration or amount of substance that must be present before a method is considered to provide quantitative results. By convention, $LOQ = 10s_0$, where s_0 is the estimate of the standard deviation at the lowest level of measurement.

Matrix Spike - A known concentration of standard is added to a sample of known quantity and analyzed. The purpose is to determine whether the sample matrix contributes bias to the results.

Matrix Spike Duplicate - A second matrix spike analyzed on between the two results is calculated to measure precision.

Method - An assemblage of measurement techniques and the order in which they are used.

Method Blank - An aliquot of reagent water is treated exactly as the sample and analyzed. the results must fall below the MDL.

Performance Audit - A process to evaluate the proficiency of an analyst or laboratory by evaluation of the results obtained on a known test material.

Precision - The degree of mutual agreement characteristic of independent measurements as the result of repeated application of the process under specified conditions. It is concerned with the closeness of results.

Primary Standard - A substance or artifact, the value of which can be accepted (within specific limits) without question when used to establish the value of the same or related property of another material. Note that the primary standard for one user may have been a secondary standard of another.

Procedure - A set of systematic instructions for using a method of measurement or the steps or operations associated with them.

Quality - An estimation of acceptability or suitability for a given purpose of an object. item, or tangible or intangible thing.

Quality Assessment - The overall system of activities whose purpose is to provide assurance that the quality control activities are done effectively. It involves a continuing evaluation of performance of the production system and the quality of the product produced.

Quality Assurance - A system of activities to provide to the producer/user of a product/service the assurance that it meets defined standards of quality, utilizing quality control and quality assessment.

Quality Control - The overall system to control the quality of a product or service so that it meets the needs of users. The aim is to provide quality that is satisfactory, adequate, dependable and economic.

Relative Standard Deviation - The coefficient of variation expressed as a percentage.

Replicate - A counterpart of another, usually referring to an analytical sample or measurement, for which duplicate is the special case consisting of two samples or measurements.

Sample - A portion of a population or lot. It may consist of an individual or groups of individuals. It may refer to objects, materials or measurements, conceivable as part of a larger group.

Sensitivity - Capability of methodology or instrumentation to discriminate between samples with differing concentrations or containing differing amounts of an analyte.

Significant Figure - A figure(s) that remains to a number or decimal after the ciphers to the right or left are canceled.

Standard - A substance or material with properties believed to be known with sufficient accuracy to permit its use to evaluate the same property of another. In chemical measurements, it often describes a solution or substance commonly prepared by the analyst to establish a calibration curve or the analytical response of an instrument.

Standardization - The process whereby the value of a potential standard is fixed by measurement with respect to a standard(s) of known value.

Standard Addition - A method in which small increments of a substance under measurement are added to a sample under test to establish a response function, or to determine by extrapolation the amount of a constituent originally present in the test sample.

Standard Method - A method (or procedure) of test developed by a standards-writing organization, based on a consensus opinion or other criteria by a collaborative testing procedure.

Standard Operating Procedure (SOP) - A procedure adopted for repetitive use when performing a specific measurement or sampling operation.

Surrogate - A compound that is added to each sample to monitor extraction and purge efficiency.

Travel Blank - Reagent water that is placed in a sample container and treated like samples in terms of exposure to site conditions, storage, etc. Generally analyzed for VOCs only.

Traceability - The ability to trace the source of uncertainty of a measurement or a measured value .

Warning Limits - The limits shown on a control chart within which most of the test results are expected to lie (within a 95% probability) while the system remains in a state of statistical control.

APPENDIX B

CONTAINERS, PRESERVATIVES & HOLDING TIMES

SAMPLE PRESERVATIVES AND HOLD TIMES

WATER / AQUEOUS / SOILS

Parameter	Method	Container	Preservative	Hold Time	Notes
Acidity	SM2310B	1L P	2-6° C	14 days	
Aggressive Index	various	1 L P	2-6° C	immed.	log in pH, ICP_200.7, Alk
Alkalinity	SM2320B	1L P	2-6° C	14 days	
Ammonia-Nitrogen	SM4500NH3 D	500 mL P	2-6°C, H ₂ SO ₄ , pH<2	28 days	
Arsenic Speciation (subcontract)	EPA 200.8	250 mL brown plastic	acetic/EDTA		
Asbestos (subcontract)	TEM	1L P	2-6° C	48 hours	
Benzene	EPA 524.2	2-40mL G vials	2-6° C, ascorbic, HCl in field	14 days	
BOD	SM5210B	1L P	2-6° C	48 hours	biochemical oxygen demand
Bromate (subcontract)	EPA 317.0	250 mL amber glass	EDTA	28 days	
Bromide (subcontract)	EPA 300.1	250 mL amber glass	EDTA	28 days	
BTEX	EPA 8260B	2-40mL G vials	2-6° C, HCl in field	14 days	
Parameter	Method	Container	Preservative	Hold Time	Notes
CBOD	SM5210B	1L P	2-6° C	48 hours	carbonaceous biochemical oxygen demand
Chloride	EPA 300.0	500 mL P	2-6° C	28 days	
Conductivity	SM2510B	1 L P	2-6°C	28 days	
Cyanate	SM4500CN L	1 L P	2-6°C	14 days	
Cyanide-Total	SM4500CNC	500 mL P	2-6°C, NaOH pH>12	14 days	
Cyanide-WAD	SM4500CNI	500 mL P	2-6°C, NaOH pH>12	14 days	
COD (subcontract)	EPA 410.4	500 mL P	2-6°C, H ₂ SO ₄ , pH<2	28 days	must sub out any compliance
COD	EPA 410.4	500 mL P	2-6°C, H ₂ SO ₄ , pH<2	28 days	non-compliance only
Color	SM2120B	1 L P	2-6°C	48 hours	must run pH also
Dioxin (subcontract)	EPA 1613	2-1 L amber glass	2-6°C	1 year	
Dissolved Ammonia-Nitrogen	SM4500NH3 D	500 mL P	2-6°C, H ₂ SO ₄ , pH<2 filter	28 days	must be filtered before pres.
Dissolved Kjeldahl Nitrogen	EPA 351.2	500 mL P	2-6°C, H ₂ SO ₄ , pH<2 filter	28 days	must be filtered before pres.
Dissolved Nitrate Nitrogen	EPA 300.0	500 mL P	2-6° C, filter	48 hours	
Dissolved Nitrite Nitrogen	EPA 300.0	500 mL P	2-6° C, filter	48 hours	
Dissolved Nitrogen	Calc.	500 mL P	either none or H ₂ SO ₄	48 hours	log in NO ₃ -N(D), NO ₂ -N(D), DKN
Dissolved Oxygen	SM4500 OG	1-DO bottle w/stopper	2-6°C, unpres	ASAP	must be sampled in DO bottle

Dissolved Phosphorus	EPA 365.3	500 mL P	2-6°C, H ₂ SO ₄ , pH<2 filter	28 days	must be filtered before pres.
Electrical Conductivity	SM2510B	1 L P	2-6°C	28 days	
Fish Bioassay (subcontract)	varies	varies-check w/ sub			
Fixed Dissolved Solids	SM2540E	1 L P	2-6°C	7 days	
Fecal Coliform	SM9222D	1 P (sterile)	2-6°C, Na ₂ S ₂ O ₃	8 hours	
Fluoride	EPA 300.0	500 mL P	2-6° C	28 days	
Glycol, Propylene (subcontract)		500 mL G	2-6°C	7 days	
Gross Alpha (subcontract)	EPA 600	1/2 gallon P	none	6 months	do not chill
Gross Beta (subcontract)	EPA 900	1/2 gallon P	none	6 months	do not chill
Haloacetic Acids (subcontract)	EPA 552.1	250 mL amber glass	2-6°C, NH ₄ Cl	28 days	HAA5
Hardness	SM2340B	500 mL P	2-6°C, HNO ₃ , pH<2	6 months	must log in with ICP_200.7
Herbicides (subcontract)	varies	varies-check w/ sub			
Hexavalent Chromium	SM3500Cr D	1 L P	2-6°C	48 hours	aka CrVI or Cr+6
Heterotrophic Plate Count	SM9215B	100 mL (sterile)	2-6°C, Na ₂ S ₂ O ₃	8 hours	
Isotopic Uranium (subcontract)	EPA 900	1/2 gallon P	none	6 months	do not chill
Langlier Index	Calc.	1 L P	2-6°C	immediatey	log in pH, ICP_200.7, Alk
MBAS (surfactants)	SM5540C	1 L P	2-6°C	48 hours	
Mercury	245.1, 200.8	500 mL P	2-6°C, HNO ₃ , pH<2	28 days	
Metals	200.7,200.8	500 mL P	2-6°C, HNO ₃ , pH<2	6 months	
MTBE	EPA 8260B	2-40mL G vials	2-6° C, HCl in field	14 days	
Nitrate as NO ₃	EPA 300.0	500 mL P	2-6° C	48 hours	
Nitrate as Nitrogen	EPA 300.0	500 mL P	2-6° C	48 hours	
Nitrate as Nitrogen (low level)	EPA 300.0	500 mL P	2-6° C	48 hours	low level for lake tahoe clients
Nitrite Nitrogen	EPA 300.0	500 mL P	2-6° C	48 hours	
Nitrate+Nitrite (analyzed)	EPA 353.2	500 mL P	2-6°C, H ₂ SO ₄ , pH<2	28 days	
Nitrate+Nitrite (calculated)	Calc.	500 mL P	2-6° C	48 hours	add NO ₃ +NO ₂ , run each
Odor	SM2150B	500 mL G	2-6°C	24 hours	
Organochlorine pesticides (sub)	EPA 614	1 L amber glass	2-6°C	7 days	
Oil and Grease	EPA1664	1 L amber glass	2-6°C,HCl or H ₂ SO ₄	28 days	
Oil and Grease (low level)	EPA1664	2 L amber glass	2-6°C,HCl or H ₂ SO ₄	28 days	low level for lake tahoe clients
Orthophosphpate	EPA 365.3	500 mL P	2-6° C	48 hours	
Particle Size Distribution (sub)	none	500 mL P	2-6° C		PSD
Perchlorate (subcontract)	EPA 314	500 mL P	2-6° C	28 days	

Pesticides (subcontract)	varies	varies-check w/ sub			
pH	SM4500H+ B	1 L P	2-6° C	Immed.	
Phenols (subcontract)	EPA 420.1	1 L amber glass	2-6° C	7 days	
Polyaromatic hydrocarbons (sub)	EPA 8310	2 L amber glass	2-6° C	7 days	PAH
P/A (presence/absence)	SM 9223	100 mL (sterile)	2-6°C, Na ₂ S ₂ O ₃	30 hours	
Quantitray (bacteria MPN)	SM 9223	100 mL (sterile)	2-6°C, Na ₂ S ₂ O ₃	24 hours	
Radium 226/228 (subcontract)	EPA 900.3/904	1/2 gallon P	none	6 months	do not chill
Radon (subcontract)	7500RN	2-40mL G vials	2-6° C	72 hours	
Redox Potential	SM2580B	1 L P	2-6° C	28 days	
Residual Chlorine	SM4500Cl G	1 L P	2-6° C	24 hours	
Resistivity	SM2510B	1 L P	2-6°C	28 days	
SBOD	SM5210B	1 L P	2-6° C	48 hours	Soluble biochemical oxygen demand
SCOD	EPA 410.4	500 mL P	2-6°C, H ₂ SO ₄ , pH<2	28 days	non-compliance only
SOC (subcontract)	various	SOC Kit	SOC Kit, 2-6°C	7 days	order bottles from sub
Specific Gravity (subcontract)		250mL P		28 days	
Sulfate	EPA 300.0	500 mL P	2-6° C	28 days	
Sulfide	Hach 8131	500 mL P	2-6°C NaOH pH>9, ZnAoC	7 days	
Sulfite (subcontract)	EPA 377.1	500 mL P	2-6° C		
Sulfur	EPA 200.7	500 mL P	HNO ₃ , pH<2 filter first	6 months	
SVOC (subcontract)	EPA 8270B	2-1 L amber glass	2-6° C	14 days	semi-volatile organic compounds
TCLP Hg	EPA 7470A	500 mL P	2-6° C	28 days	TCLP8 (8th metal is Hg)
TCLP metals	EPA 6010B	500 mL P	2-6° C	6 months	TCLP7 (no Hg)
TCLP 11 (Subcontract)	EPA 625	2-40mL G vials	2-6° C	14 days	
Thiocyanate	SM4500CN M	1 L P	2-6°C	14 days	
Total Coliform	SM 9223	100 mL (sterile)	2-6°C, Na ₂ S ₂ O ₃	30 hours	
Total Cyanide (Total CN)	SM4500CNC	500 mL P	2-6°C, NaOH pH>12	14 days	
Total Dissolved Solids	SM2540C	1 L P	2-6°C	7 days	
Total Nitrogen	Calc.	500 mL P	2-6° C	48 hours	log in NO ₃ , NO ₂ , TKN
Total Nitrogen (low level)	Calc.	500 mL P	2-6° C	48 hours	log in NO ₃ _low, NO ₂ , TKN
Total Organic Carbon (Sub)	EPA 415.1	1-40mL G vial	2-6° C	7 days	TOC
Total Organic Halides (Sub)	SM9020B	500 mL amber glass	2-6°C, H ₂ SO ₄ , pH<2	14 days	TOX
TPH-carbon chain	EPA 8015B	2-40mL G vials	2-6° C, HCl in field	14 days	
TPH-gas	EPA 8015B	1 L amber glass	2-6° C	14 days	

TPH-diesel&motor oil	EPA 8015B	1 L amber glass	2-6° C	14 days	
Total Phosphorus	EPA 365.3	500 mL P	2-6°C, H ₂ SO ₄ , pH<2	28 days	
Total Solids	SM2540B	1 L P	2-6°C	7 days	
Total Suspended Solids	SM2540D	1 L P	2-6°C	7 days	
Total Suspended Solids (low level)	SM2540D	1 L P	2-6°C	7 days	low level for lake tahoe clients
Total Trihalomethanes (sub)	EPA 551	3-40mL G vials amber	2-6°C, Na ₂ S ₂ O ₃	14 days	TTHM
Turbidity	EPA 180.1	1 L P	2-6°C	48 hours	
Total Volatile Suspended Solids	EPA 160.4	1 L P	2-6°C	7 days	ran after TSS
VOC	EPA524.2/625	3-40mL G vials	2-6° C, HCl in field	14 days	volatile organic compounds
WAD Cyanide (WAD CN)	SM4500CNI	500 mL P	2-6°C, NaOH pH>12	14 days	

Organics

Method	Parameter	Amount	Container	Preservative	Hold Time
8015A W	Non-halogenated Volatiles	80mL	2-40mL G vials	2-6°C, 1:1 HCl	14 days
8015A S	Non-halogenated Volatiles	100g	1-4oz jar	2-6°C	14 days
8041 W	Phenols	1000mL	1-1L G amber	2-6°C	7,40 days
8041 S	Phenols	100g	1-8 oz G jar	2-6°C	14 days
8061A W	Phthalate esters	1000mL	1-1L G amber	2-6°C	7,40 days
8061A S	Phthalate esters	100g	1-8oz G jar	2-6°C	14 days
608,8081W	Pesticides	1000 mL	2-1L G amber	2-6° C, Na ₂ S ₂ O ₃ , if chlorinated, pH: 5-9	7,40 days
8081A (oil)	Pesticides	80mL	2-40mL G vials	2-6°C	7,40 days
8081A S	Pesticides	100g	1-8oz G jar	2-6°C	14 days
8082 W	PCB's	1000 mL	2-1L G amber	2-6° C, pH: 5-9	7,40 days
8082 (oil)	PCB's	80mL	2-40mL G vials	2-6°C	7,40 days
8082 S	PCB's	100g	1-8oz G jar	2-6°C	14 days
8091 W	Nitroaromatics & Ketones	1000mL	1-1L G amber	2-6°C	7,40 days
8100 S	PNA's	100g	1-8oz G jar	2-6°C	7,40 days
8100 S	PNA's	1000mL	1-1L G amber	2-6°C	14 days
614,8141W	Organophosphorus pesticides	1000mL	2-1L G amber	2-6°C	7,40 days
8141A S	Organophosphorus pesticides	100g	1-8oz G amber	2-6°C	14,40 days
615, 8151A W	Chlorinated herbicides	1000 mL	2-1L G amber	2-6°C	7,30 days
8151A S	Chlorinated herbicides	100g	1-8oz G jar	2-6°C	14 days
624, 8260B W	Volatile Organics (GC/MS)	80mL	2-40mL G vials	2-6°C, Na ₂ S ₂ O ₃ , if chlorinated, 1:1 HCl	14 days
8260B S	Volatile Organics (GC/MS)	100g	1-8oz G jar	2-6°C	14 days
625, 8270C W	Semi-volatiles	1000 mL	2-1L G amber	2-6°C, Na ₂ S ₂ O ₃ if chlorinated	7,40 days
8270C S	Semi-volatiles	100g	1-8oz G jar	2-6°C	14,40 days
418.1 W	TPH in water	1000mL	1-1L G amber	2-6°C, 1:1 H ₂ SO ₄	14 days
418.1AZ S	TPH	100g	1-8oz G jar	2-6°C	14 days

Notes: For holding time 7,30 (or X,Y) means 7 (X) days for extraction, plus 30 (Y) additional days for analysis.

P=Plastic, G=Glass

Na₂S₂O₃ = Sodium thiosulfate H₂SO₄ = Sulfuric acid HCl = Hydrochloric acid MCA = Monochloroacetic acid

TABLE 1 SAMPLE PRESERVATIVES AND HOLD TIMES
RADIONUCLIDES

Method	Parameter	Amount	Container	Preservative	Hold Time
900	Radiological, all except Rn222 and Tritium	1 Gallon 50 g solid	2-1/2 Gallon P 250 mL G jar	None None	6 months 6 months
RN-222	Radon 222	80 ml	2x40 mL amber G	None	72 hours
906.0	Tritium (H ₃)	250 ml AQ 300 g (Sample size varies with solid moisture content)	1-250 mL G 2 - 250 mL G jar	None None	6 months 6 months

Appendix C

Site Specific Information

WETLAB

Western Environmental Testing Laboratory

QUALITY ASSURANCE PLAN

This document contains information specific to the WETLAB facility and is organized in the following format:

- 5.0 WETLAB Standard Operating Procedures
- 6.0 Facility Floor Plan
- 7.0 Instrumentation List
- 8.0 List of Certifications
- 9.0 Performance Evaluation Studies

Western Environmental Testing Lab LIST OF STANDARD OPERATING PROCEDURES

ORGANICS

<u>SOP. NO</u>	<u>REV.NO</u>	<u>DATE</u>	<u>TITLE</u>
6.01	REV.4	06/07/13	PURGEABLE GASOLINE RANGE ORGANICS (GRO) BY GAS CHROMATOGRAPHY – EPA 8015B
6.02	REV.5	06/07/13	EXTRACTABLE DIESEL (DRO) AND RESIDUAL RANGE (RRO) BY GAS CHROMATOGRAPHY – EPA 8015B
6.03	REV.2	07/11/14	VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC/MS) – EPA 8260B
6.04	REV. 0	01/10/13	VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC/MS) – EPA 624
6.05	REV. 2	06/07/13	VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/ MASS SPECTROMETRY (GC/MS) – EPA 524.2
6.06	REV. 0	08/14/13	HALOACETIC ACIDS AND DALAPON BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTOR (GC-ECD)—EPA 552.3

METALS

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
7.02	REV. 2	07/02/13	DIGESTION OF AQUEOUS SAMPLES - EPA METHOD 200.2
7.03	REV. 2	01/07/04	INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY- EPA 6010B
7.04	REV. 13	11/01/13	INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY- EPA 200.7
7.07	REV. 7	10/23/14	MERCURY DETERMINATION - EPA 245.1 AND 7470A
7.08	REV. 2	01/07/04	DETERMINATION OF TRACE ELEMENTS BY STABILIZED TEMPERATURE GRAPHITE FURNACE ATOMIC ABSORPTION- EPA 200.9/279.2/3113B
7.09	REV. 5	10/29/14	MERCURY DETERMINATION - EPA 7471A
7.10	REV. 3	04/22/10	DIGESTION OF AQUEOUS SAMPLES - EPA METHOD 3010A

METALS (Continued)

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
7.11	REV. 4	04/22/10	DIGESTION OF SOLID, SLUDGE SAMPLES - EPA METHOD 3050A
7.12	REV. 7	05/21/13	LEACHING PROCEDURE FOR METALS AND SEMI-VOLATILES BY EPA METHODS 1311, 1312 AND CA TITLE 22 (Nevada Extraction Procedures 1311 and 1312)
7.13	REV. 1	05/13/02	ACID DIGESTION OF OILS FOR METALS ANALYSIS - EPA METHOD 3031
7.14	REV. 4	11/01/13	INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY - EPA 200.8

GENERAL CHEMISTRY

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
8.01	REV. 6	04/22/14	ANALYSIS OF LIQUIDS FOR pH -SM 4500-H ⁺ B
8.02	REV. 4	04/22/14	ANALYSIS OF SOLIDS FOR pH - EPA 9045B
8.03	REV. 2	08/18/11	IGNITIBILITY (FLASHPOINT) OF LIQUIDS (USEPA 1010) AND SOLIDS
8.04	REV. 9	01/25/14	BIOCHEMICAL OXYGEN DEMAND – SM 5210 B / EPA 405.1
8.05	REV. 4	01/09/15	COLOR – SM 2120B
8.06	REV. 3	03/21/13	THRESHOLD ODOR TEST – EPA 140.1/SM 2150B
8.07	REV. 6	07/22/14	ELECTRICAL CONDUCTIVITY – SM 2510B
8.08	REV. 2	06/28/05	FLUORIDE – SM 4500-FL C
8.09	REV. 2	02/20/15	METEORIC WATER MOBILITY PROCEDURE (MWMP) – ASTM E2242-02
8.10	REV. 1	10/15/12	PERCENT MOISTUR/SOLIDS IN SOILS – EPA160.3
8.11	REV. 2	03/15/11	HEXAVALENT CHROMIUM – SM 3500 Cr D
8.12	REV. 11	06/07/13	TOTAL DISSOLVED SOLIDS – SM 2540C
8.13	REV. 9	06/07/13	TOTAL SUSPENDED SOLIDS – SM 2540 D / EPA 160.2

GENERAL CHEMISTRY (Continued)

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
8.14	REV. 1	03/01/10	SURFACTANTS (MBAS)
8.15	REV. 3	09/03/09	TURBIDITY – EPA 180.1
8.16	REV. 4	01/02/15	ALKALINITY - SM 2320B
8.17	REV. 0	02/06/09	CORROSION RATE – NACE TM0169-95 / PNS
8.18	REV. 0	04/23/09	DISSOLVED OXYGEN – SM 4500-O G
8.19	REV. 1	03/22/10	SULFIDE IN WATER – HACH 8131
8.20	REV. 5	01/02/15	AUTOTITRATION ANALYSIS OF PH, ELECTRICAL CONDUCTIVITY, ALKALINITY, ACIDITY – SM 4500-H ⁺ B, SM 2510B, SM 2320B, SM 2310B
8.21	REV. 3	07/22/14	REDOX (OXIDATION-REDUCTION POTENTIAL)-SM 2580B/ASTM D1498
8.22	REV. 8	04/21/14	ANIONS - ION CHROMATOGRAPHY 300.0
8.23	REV. 6	09/03/09	TOTAL & ORTHO PHOSPHOROUS - EPA 365.3/4500P E
8.24	REV. 4	02/19/15	PREPARATION OF SATURATED SOIL PASTE
8.25	REV. 1	08/09/12	THIOCYANATE – SM 4500-CN M
8.26	REV. 0	05/23/12	AVAILABLE CYANIDE BY LIGAND EXCHANGE FLOW INJECTION ANALYSIS—OIA-1677
8.27	REV. 1	08/27/12	FREE CYANIDE PRESCREENING FOR DISTILLATION
8.28	REV.0	01/18/12	TOTAL CYANIDE BY SEGMENTED FLOW INJECTION ANALYSIS, ON-LINE ULTRAVIOLET DIGESTION AND AMPEROMETRIC DETECTION – OI 1677
8.29	REV. 1	06/13/02	NITRITE – SM 4500 NO2 B
8.30	REV. 2	01/07/15	ACIDITY – SM 2310B
8.31	REV. 7	03/13/12	AMMONIA NITROGEN – SM 4500-NH3 D / EPA 350.3
8.32	REV. 3	08/26/04	TOTAL KJELDAHL NITROGEN – EPA 351.3

GENERAL CHEMISTRY (Continued)

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
8.33	REV. 2	04/17/12	TOTAL VOLATILE SOLIDS – EPA 160.4
8.34	REV. 3	12/15/11	CYANATE – SM 4500-CN L.
8.35	REV. 9	09/29/14	CYANIDE, WEAK ACID-DISSOCIABLE- SM 4500- CN I (Distillation) / SM 4500-CN E (Colorimetric)
8.36	REV. 9	09/26/14	CYANIDE, TOTAL- SM 4500- CN C (Distillation) / SM 4500-CN E (Colorimetric)
8.37	REV. 1	07/09/02	POTENTIOMETRIC DETERMINATION OF CYANIDE BY ISE–SM 4500-CN F/SW846 9213
8.38	REV. 8	07/08/14	OIL AND GREASE - EPA 1664, Revision B
8.39	REV. 3	03/28/12	CHEMICAL OXYGEN DEMAND – EPA 410.4 / SM 5220D
8.40	REV. 0	09/29/03	RESIDUAL CHLORINE – SM 4500 CL F
8.41	REV. 0	09/30/03	ALKALINITY AND ACIDITY – SM 2320B / 2310B
8.42	REV. 0	05/03/04	QUALITATIVE SULFIDES
8.43	REV. 4	06/23/14	ACID GENERATING/NUETRALIZING POTENTIAL – EPA -600/2-78-054 – MODIFIED SOBEK
8.44	REV. 5	03/13/12	TKN BY FLOW INJECTION ANALYSIS - EPA 351.2
8.45	REV. 1	07/05/07	NITRATE/NITRITE BY FLOW INJECTION ANALYSIS - EPA 353.2
8.46	REV. 1	06/16/09	RESIDUAL CHLORINE – SM 4500 CI G
8.47	REV.1	02/16/12	STATIC NET ACID GENERATION (NAG) PROCEDURE
8.48	REV.0	01/05/12	PAINT FILTER LIQUIDS TEST
8.49	REV. 0	05/03/2013	CYANIDES AMENABLE TO CHLORINATION-SM4500CN G
8.51	REV.1	02/20/15	LABORATORY WEATHERING OF SOLID MATERIALS USING A HUMIDITY CELL – ASTM D5744-07

GENERAL CHEMISTRY (Continued)

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
8.52	REV.0	09/05/12	CORROSIVITY OF DRINKING WATER –SM 2330 B
8.53	REV. 1	04/29/13	ACCELERATED LEACH TEST FOR DIFFUSIVE RELEASE FROM SOLIDIFIED WATSE—ASTM C1308
8.54	REV. 1	08/25/14	FERROUS IRON—SM 3500 Fe B
8.55	REV. 0	09/24/13	EXTRACTION OF AQUEOUS CYANIDES BY FROM MINE ROCK AND SOIL – ASTM D7572
8.56	REV.0	06/19/14	DETERMINATION OF PERCHLORATE IN DRINKING WATER USING ION CHROMATOGRAPHY- EPA 314.0/9058
8.57	REV.0	10/03/14	DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY PART B: INORGANIC DISINFECTION BY- PRODUCTS

QUALITY ASSURANCE

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
9.01	REV. 1	03/21/13	DAILY LAB QC & PIPETTE CALIBRATION
9.02	REV. 1	02/20/13	LIMS VALIDATION
9.03	REV. 1	02/20/13	METHOD DETECTION LIMIT STUDY (MDL) ANALYSIS – SM 1030 E
9.04	REV. 1	02/17/04	GLASSWARE CLEANING
9.05	REV. 2	02/20/13	PREPARATION OF STANDARD OPERATING PROCEDURES
9.06	REV.2	02/22/13	CORRECTIVE ACTION AND DOCUMENTATION
9.07	REV. 1	05/03/13	INTEGRATION OF CHROMATOGRAPHY PEAKS
9.08	REV. 1	04/12/12	LIMS DATA ENTRY
9.09	REV. 2	02/12/03	REVIEW OF DATA AND LAB RECORDS.

QUALITY ASSURANCE (Continued)

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
9.10	REV. 1	06/04/12	CREATION OF CATION/ANION BALANCES
9.11	REV. 0	02/12/04	MANAGEMENT ASSESSMENT PROGRAM
9.12	REV. 1	02/22/13	CONTRACT REVIEW
9.13	REV. 1	11/20/12	PERFORMANCE EVALUATION PROGRAM
9.14	REV. 2	02/22/13	PERSONNEL TRAINING AND CERTIFICATION
9.15	REV. 0	06/09/11	QUALITY CONTROL CHECK OF ACID FOR SAMPLE PRESERVATION
9.16	REV. 2	04/27/12	REVIEWING AND DOCUMENTING CHANGES MADE TO DATA AFTER REPORT PREPARATION
9.17	REV. 1	01/30/04	VALIDATION OF NON-STANDARD OR LAB DEVELOPED METHODS
9.18	REV. 1	02/22/13	NEW INSTRUMENT VALIDATION/METHOD DEVELOPMENT
9.19	Rev. 0	05/13/13	APPROVAL
9.20	Rev.1	07/28/14	CALIBRATION OF MEASURING DEVICES

MICROBIOLOGY

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
10.02	REV. 7	08/17/12	FECAL COLIFORM BY MEMBRANE FILTRATION
10.03	REV. 9	11/04/13	TOTAL COLIFORMS AND E.COLI BY COLILERT / QUANTITRAY – SM 9223 B
10.04	REV. 3	05/30/13	HETEROTROPHIC PLATE COUNT – SM 9215 B (SimPlate)
10.05	REV. 0	03/13/12	IRON RELATED BACTERIA (IRB)/SULFATE REDUCING BACTERIA (SRB) –SM 9240 B/SM 9240 C / BART
10.06	REV. 1	09/10/13	MICROBIOLOGY INVENTORY / MEDIA QUALITY CONTROL REQUIREMENTS
10.07	REV.1	07/29/14	Fecal Coliform Verification

MICROBIOLOGY (Continued)

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
10.07	REV.1	07/29/14	Fecal Coliform Verification

SAMPLE MANAGEMENT

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
11.01	REV. 11	02/20/15	SAMPLE LOG IN
11.02	REV. 1	05/16/03	WASTE DISPOSAL
11.03	REV. 0	06/17/02	WASTEWATER SLUG DISCHARGE CONTROL PLAN
11.04	REV. 0	09/30/03	SAMPLE BOTTLE AND EQUIPMENT CLEANING PROCEDURES FOR ELDORADO COUNTY
11.05	REV. 0	01/23/06	ABBREVIATED CLEANING PROCEDURE FOR COMPOSITE SAMPLING EQUIPMENT USED FOR CALTRANS
11.06	REV. 0	06/01/07	GENERAL SAMPLE COLLECTION
11.07	REV. 0	01/28/09	BOTTLE WASHING FOR CLIENT REQUESTS (CDM)
11.08	REV. 3	03/29/13	SAMPLE SPLITTING AND BATCHING
11.09	REV. 1	04/07/11	COURIER
11.10	REV. 0	10/22/09	BOTTLE KITS
11.11	REV. 2	01/01/14	SUBCONTRACTING
11.12	REV. 0	03/30/12	FIELD PH MEASUREMENTS -SM 4500-H ⁺ B
11.13	REV. 0	08/16/12	WETLAB PREP METHODS
11.14	REV. 0	10/08/13	SAMPLE RECEIVING
11.15	REV. 1	03/02/2015	FOREIGN SOILS

MINING RELATED SOP SUMMARY

<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
8.09	REV. 2	02/20/15	METEORIC WATER MOBILITY PROCEDURE (MWMP) – ASTM E2242-02

MINING RELATED SOP SUMMARY (Continued)

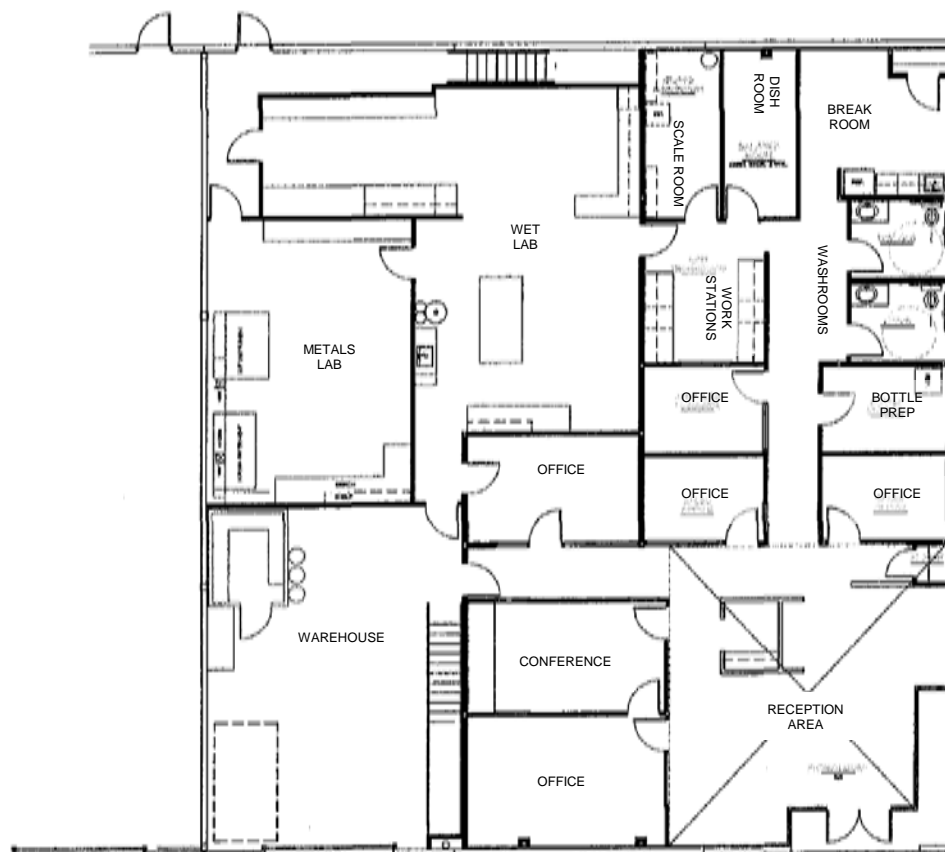
<u>SOP NO.</u>	<u>REV. NO.</u>	<u>DATE</u>	<u>TITLE</u>
8.21	REV. 2	04/30/13	REDOX (OXIDATION-REDUCTION POTENTIAL)-SM 2580B/ASTM D1498
8.24	REV. 1	06/10/02	PREPARATION OF SATURATED SOIL PASTE
8.43	REV. 3	05/20/13	ACID GENERATING/NUETRALIZING POTENTIAL – EPA -600/2-78-054 – MODIFIED SOBEK
8.47	REV.1	02/16/12	STATIC NET ACID GENERATION (NAG) PROCEDURE
8.51	REV.1	02/20/15	LABORATORY WEATHERING OF SOLID MATERIALS USING A HUMIDITY CELL – ASTM D5744-07
8.53	REV. 1	04/29/13	ACCELERATED LEACH TEST FOR DIFFUSIVE RELEASE FROM SOLIDIFIED WATSE—ASTM C1308
8.54	REV. 0	07/29/2013	FERROUS IRON—SM 3500 Fe B
8.55	REV. 0	09/24/2013	EXTRACTION OF AQUEOUS CYANIDES BY FROM MINE ROCK AND SOIL – ASTM D7572

6.0 WETLAB FACILITY

The WETLAB facility located at 475 E. Greg St, Sparks Nevada is a 18,000 square foot building with individual laboratories for analyses in metals, volatile organics, semi-volatile organics, mining testing, and wet chemistry. A floor plan is shown in the following figure:

FIGURE 3-1
 WETLAB FACILITY FLOOR PLAN (East Building)

1st Floor



2nd
 Floor

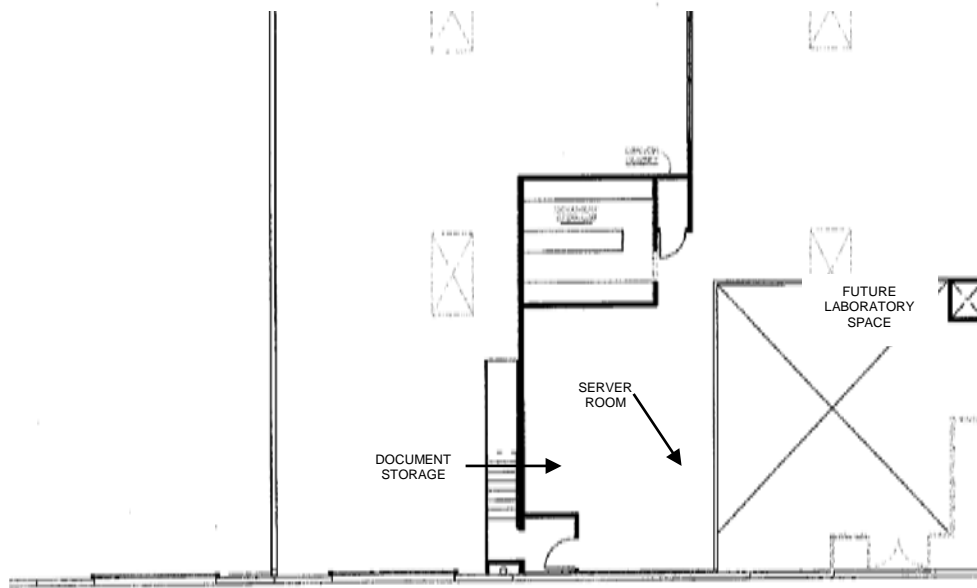


FIGURE 3-1
 WETLAB FACILITY FLOOR PLAN (West Building)

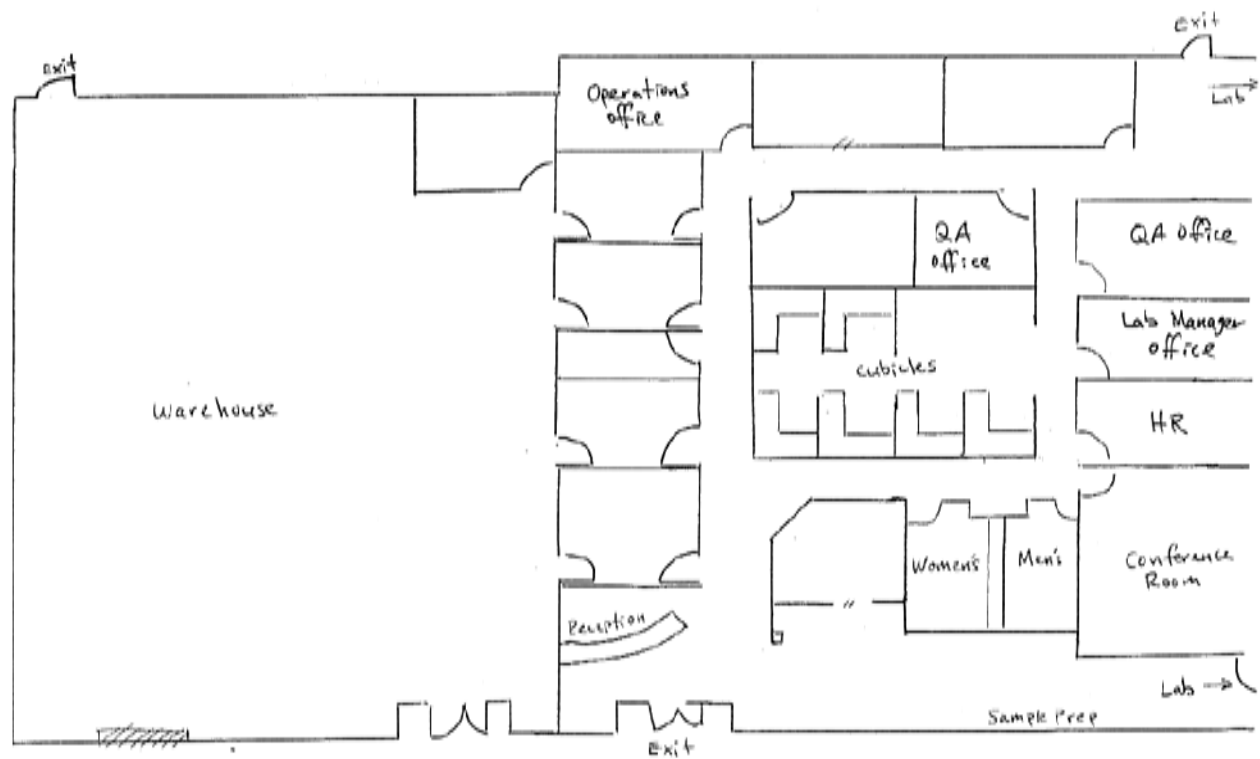


TABLE 4-1
WETLAB INSTRUMENTATION LIST

Major Analytical Equipment
Miscellaneous wet chemistry glassware, block digesters, balances, ovens
Metrohm Compact IC Pro Ion Chromatographs (3)
Thermo UV/VIS Evolution 201 Spectrophotometer
Lachat Quickchem 8000 Flow Injection Analyzer
Hach 2100 Turbidimeter
Environmental Express C6002 Cyanide/Ammonia Distillation Units (3)
Oil & Grease Solid Phase Extraction System
WESTCO Digestion blocks (2)
Perkin Elmer Optima 4300 DV ICP-OES
Thermo iCAP 7000 Series ICP-OES
Perkin Elmer Nexion 300X ICP-MS
Perkin Elmer Elan DRC-e ICP-MS
CETAC M-6000A Mercury Analyzer
CETAC M-6100 Mercury Analyzer
OI Analytical FS3100 F.I.L.E. Cyanide Analyzer
Perkin Elmer Clarus 680 GC-MS
Perkin Elmer Clarus 680 GC-HS
Metrohm 855 Robotic Titrosampler
LECO CS230 SL Carbon/Sulfur Analyzer
Teledyne Tekmar TOC Fusion
Shimadzu GC/FID
Shimadzu GC2010 Plus GC-MS (2)

8.0 STATE CERTIFICATIONS

WETLAB holds certifications in Nevada, California, and Wyoming (via EPA region 8, includes region 8 Tribal lands). Following is a list of certifications which are current at the time of issuance of this document.

<u>Agency</u>	<u>Analytes</u>
Nevada	Microbiology, SDWA inorganics, CWA inorganics, RCRA organics, RCRA inorganics
California	Microbiology, SDWA inorganics, CWA inorganics, RCRA inorganics
Wyoming	SDWA inorganics
Idaho	SDWA inorganics

9.0 PERFORMANCE EVALUATION STUDIES

As part of an on-going laboratory QA/QC program, WETLAB routinely participates in semi-annual Water Pollution (WP) and Water Supply (WS) Performance Evaluation Studies and in round-robin proficiency testing and laboratory certification programs conducted by the local and state agencies. These studies are procured from a National Institute of Standards and Technology (NIST) accredited laboratory.

Performance Evaluation Study	Analyses Performed	Frequency
Water Supply (WS) PE Study	Inorganics, Alkalinity, pH, Phosphate, Turbidity, Nitrite, Metals, Coliform Bacteria	Semi-annually
Water Pollution (WP) PE Study	Nutrients, Demand, Minerals, Inorganics, Nitrite. Metals, Bacteria	Semi-annually
SOIL PE Study	Ignitability, Corrosivity, Metals, Cyanide	Semi-annually

APPENDIX D

EXAMPLE OF AN INTERNAL AUDIT CHECKLIST

INTERNAL AUDIT CHECKLIST

Date of Audit: _____ Department: _____ Audited by: _____

QA/ QC Procedures	YES	NO	N/A	Comments
Are analysts following procedures outlined in SOPs and methods?				
Are standard curves prepared to adequately cover the expected concentration ranges of the sample?				
Are standard curves prepared daily or verified daily?				
Are new curves generated whenever out-of-control conditions are indicated or new reagents are prepared?				
Is control chart data maintained and updated regularly?				
Have method detection limits been determined for each matrix type and documented?				
Have method detection limits been updated regularly according to method guidelines?				
1. Are the following run at a frequency consistent with the method and WETLAB standard operating procedures?				
1.1 Laboratory Control Samples				
1.2 Method Blank				
1.3 Calibration Blank				
1.4 Spikes				
1.5 Spiked Duplicates				
1.6 Duplicates				
Are trip and field blanks analyzed as needed?				
Is the data reviewed by a supervisor/peer and signed off before it leaves the department?				
Are records kept of all lab observations and calculations and signed off by analyst or supervisor?				
Are data review checklists used by all analyst?				
Have contamination problems been encountered? Were they documented and corrected?				
Have any out-of-control situations been encountered? Was the corrective action plan documented?				
Are SOPs and other reference materials up-to-date?				
Is lab equipment properly maintained and maintenance documented?				
Are preventative maintenance procedures documented?				
Are instrument run logs maintained and signed off by the supervisor?				
Are instrument operating manuals available to the analyst?				
Are calibration records kept for equipment?				
Are standards traceable to NIST or EPA standards?				
Are fresh standards prepared at a frequency consistent with good QC?				
Are standard preparation logs maintained?				

QA/ QC Procedures	YES	NO	N/A	Comments
Are instrumentation gas logs maintained?				
Are standards properly labeled with concentrations, date of preparation, expiration date and person who prepared the reagent?				
Are all hoods functional; hood flow monitored and documented?				
Is the pH meter calibrated daily with two buffers in the range of interest? Is fresh buffer used daily?				
Are the conductivity meters calibrated with 0.01M KCl before each use?				
Is the analytical balance calibrated with a set of class "S" or "S1" weights quarterly?				
Have the "S" class weights been calibrated within the past three years?				
Are refrigerator temperatures monitored daily with an accurate thermometer?				
Are incubator temperatures monitored daily with an accurate thermometer?				
Are the water bath temperatures monitored and recorded when in use?				
Are sample containers properly stored and routinely checked for contamination?				

Comments:[illegible]

APPENDIX E

METHOD SPECIFIC CALIBRATION, QC CRITERIA AND CORRECTIVE ACTIONS

Appendix E. Method-Specific Calibration and QC Criteria

ANALYSIS	METHOD	CONTROL ITEM	ACCEPTANCE CRITERIA	CORRECTIVE ACTION
TKN by FIA	351.2	Initial calibration (4 std, 1 blank)	$r \geq 0.995$	Recalibrate
		Continuing calibration (1 daily or every 10 samples)	$\pm 10\%$	Recalibrate; reanalyze previous 20 samples
		Matrix Spike per 10 samples	See SOP	
		Calibration blank (after each calibration check and end of run)	<Report Limit	
NO ₃ +NO ₂ , NO ₂ , NO ₃ (calc)	353.2	Initial calibration (5 std, 1 blank)	$r \geq 0.995$	Recalibrate
		Continuing calibration (1 daily or every 10 samples)	$\pm 10\%$	Recalibrate; reanalyze previous 10 samples
		Matrix Spike per 10 samples	$\pm 20\%$	Reanalyze
		QC Check Standard After ICAL	$\pm 10\%$	Recalibrate
		Calibration blank (after each calibration check and end of run)	<Report Limit	Recalibrate and reanalyze all samples > RL

Appendix E. Method-Specific Calibration and QC Criteria (cont.)

ANALYSIS	METHOD	CONTROL ITEM	ACCEPTANCE CRITERIA	CORRECTIVE ACTION
ICP Metals	200.7	Initial Calibration Minimum of a blank and one standard	$r \geq 0.995$	Rerun calibration standards
		Continuing calibration Instrument Performance Check (IPC)	After initial cal; $\pm 5\%$ after subsequent cal; $\pm 10\%$	Reanalyze standard; if second analysis out, recalibrate, rerun all samples since last compliant IPC.
		Lab Fortified Blank	$\pm 15\%$	Rerun batch
		Calibration blank (after each IPC solution)	<IDL	Rerun blank, if second CCB analysis out, recalibrate and reanalyze all samples since last compliant CCB
		Laboratory Reagent Blank/ Method blank (1 per 20 or batch)	<2.2*the analyte MDL	Determine cause of problem, redigest set if necessary and reanalyze
		Laboratory Fortified Blank (LFB) (1 per 20 or batch)	$\pm 15\%$	Recalibrate
		Laboratory Duplicates	See SOP	
		Spiked Samples (Lab Fortified Sample Matrix) one per 10 samples	$\pm 30\%$	Redigest, or if LFB OK flag data as suspect due to matrix interference

Appendix E. Method-Specific Calibration and QC Criteria (cont.)

ANALYSIS	METHOD	CONTROL ITEM	ACCEPTANCE CRITERIA	CORRECTIVE ACTION
ICP Metals	200.8	Initial Calibration (ICAL) Minimum of a blank and one standard	$r \geq 0.995$	Rerun calibration standards
		Continuing calibration After ICAL, after every 10 samples and at end of run	$\pm 10\%$	If $> \pm 10\%$, recalibrate and continue analysis. If $> \pm 15\%$, recalibrate and reanalyze all samples since last compliant continuing cal standard.
		Calibration blank (after each continuing calibration standard)	$< \text{IDL}$	Rerun blank or recalibrate and rerun all samples since last compliant calibration blank.
		Laboratory Reagent Blank (LRB) (1 per 20 or batch)	$< 2.2 \times \text{the analyte MDL}$ or $< 10\%$ sample analyte level, whichever is greater	Determine cause of problem, redigest set if necessary and reanalyze
		Spiked Samples (Lab Fortified Sample Matrix) one per 10 samples	$\pm 30\%$ (%Recovery not calculated if spike added is $< 30\%$ of sample conc.)	Redigest, or if LFB OK flag data as suspect due to matrix interference

Appendix E. Method-Specific Calibration and QC Criteria (cont.)

ANALYSIS	METHOD	CONTROL ITEM	ACCEPTANCE CRITERIA	CORRECTIVE ACTION
Mercury	245.1	Initial Calibration (5 std, 1 blank)	$r \geq 0.995$	Recalibrate
		Continuing calibration Instrument Performance Check (IPC) (after ICAL, every 10 samples, and end of run)	Initial, $\pm 5\%$; subsequent, $\pm 10\%$	Recalibrate, reanalyze all samples since last compliant IPC.
		Matrix spike (1 per 10)	$\pm 30\%$	If LFB OK, then flag sample result as suspect due to matrix interference.
		Duplicates	See SOP	
		Laboratory Reagent Blank (LRB) (1 per 20 or batch)	$< 2.2 * \text{MDL}$ or $< 10\%$ of sample concentration	Reprocess samples
		Continuing Calibration Blank (CCB) (after ICAL, every 10 samples, and end of run)	$< \text{MDL}$	Correct problem and all samples since last compliant CCB
		QC Check Standard (QCS)	$\pm 10\%$	Recalibrate
		Lab Fortified Blank (1 per batch)	$\pm 15\%$	Recalibrate

Appendix E. Method-Specific Calibration and QC Criteria (cont.)

ANALYSIS	METHOD	CONTROL ITEM	ACCEPTANCE CRITERIA	CORRECTIVE ACTION
Anions by IC Chloride, Nitrate/Nitrite Sulfate	300.0	Initial calibration curve	$r \geq 0.995$	Rerun calibration standards
		Instrument Performance Check Sample (IPC) analyze after ICAL, every 10 samples and end of run	$\pm 10\%$	Reanalyze IPC; if second analysis still out, recalibrate and reanalyze all samples since last compliant IPC
		Calibration Blank Analyze with each IPC	<MDL	Determine cause of blank problem, reanalyze all samples since last compliant calibration blank
		Lab Fortified Blank (one per batch)	$\pm 10\%$	Correct problem and reanalyze batch
		Spiked Samples	$\pm 20\%$	If LFB OK flag sample suspect due to matrix
		Duplicates	25% RPD	Reprep dups and reanalyze
TDS, TSS, Total Solids, T. Vol. Solids Settleable Solids, O&G COD	2540C 2540D 2540B 160.5 410.4 1664	Method Blank	<Reporting Limit	Determine cause of blank problem, reanalyze set if necessary
		Lab Control samples	$\pm 20\%$	Reprep batch and reanalyze
		Duplicates	25% RPD	Reprep batch and reanalyze

Appendix E. Method-Specific Calibration and QC Criteria (cont.)

ANALYSIS	METHOD	CONTROL ITEM	ACCEPTANCE CRITERIA	CORRECTIVE ACTION
Alkalinity Fluoride Turbidity	2320B 4500FC 180.1	Method Blank	<Report limit	Determine cause of blank problem, Reanalyze set if necessary
		Lab Control Samples	±10%	Reprep batch and reanalyze
		Duplicates	20%RPD	Reprep batch and reanalyze
pH	4500H-B/9045	3 Buffers	Within 0.05 pH unit of true value	Recalibrate
		Lab Control sample	±0.1 pH unit	Recalibrate and reanalyze
		Duplicate 1 per 20 or per batch, whichever is greater	±0.1 pH unit	Reanalyze; flag data if still outside limits
Conductivity	2510B	Method Blank	N/A	
		Lab Control Samples	±20%	Reanalyze batch
		Duplicates	15% RPD	Reanalyze; flag data is still outside limits

Appendix E. Method-Specific Calibration and QC Criteria (cont.)

ANALYSIS	METHOD	CONTROL ITEM	ACCEPTANCE CRITERIA	CORRECTIVE ACTION
Coliform Bacteria	9223B	Method Blank	No growth	Determine cause of blank problem, Reanalyze set if necessary
		Control Organism Check:	Pseudomonas aeruginosa: 0 / 0 Klebsiella pneumoniae: 1 / 0 E. Coli: 1 / 1	If any of these results do not occur, replace media
		Autofluorescence	Must not occur	Replace media
		Sterility Check	No growth accepted	Replace containers
		Accuracy Check	$\pm 2.5\%$	Replace containers
Fecal Coliform	9222D	Method Blank	No growth	Determine cause of blank problem, Reanalyze set if necessary
		Control Organism Check:	Pseudomonas aeruginosa: 0 / 0 Klebsiella pneumoniae: 1 / 0 E. Coli: 1 / 1	If any of these results do not occur, replace media
		pH Check	7.4 ± 0.2 SU	Replace Media
		Autofluorescence	Must not occur	Replace media
		Sterility Check	No growth accepted	Replace containers
		Accuracy Check	$\pm 2.5\%$	Replace containers, filter funnels, graduated cylinders

Appendix E. Method-Specific Calibration and QC Criteria (cont.)

ANALYSIS	METHOD	CONTROL ITEM	ACCEPTANCE CRITERIA	CORRECTIVE ACTION
ICP Metals	6010B	Initial Calibration Minimum of a blank and one standard		
		Initial Calibration Verification (ICV)	±10%	Recalibrate
		Continuing Calibration Verification (CCV)	±10%	Recalibrate, verify calibration, rerun all samples since last compliant CCV
		Calibration Blank (after each ICV and CCV)	<±3 x IDL	Recalibrate and reanalyze all samples since last compliant calibration blank
		Method blank (1 per 20 or batch)	Not >MDL	Determine cause of problem, redigest set if necessary
		Spiked Samples (MS) one per 20 samples or each batch if <20 samples.	±25%	Flag data as suspect due to matrix interference
		Matrix duplicates	20% RPD if sample value > 10 x IDL	Re-prepare samples and reanalyze
		Interference Check Sample (ICS)	Beginning & every 8 hours %R=80-120	Recalibrate & rerun all samples since last compliant check sample
		LCS every 20 samples	See Method	

Appendix E. Method-Specific Calibration and QC Criteria (cont.)

ANALYSIS	METHOD	CONTROL ITEM	ACCEPTANCE CRITERIA	CORRECTIVE ACTION
Mercury	7470/7471A	Initial Calibration (5 std, 1 blank)	$r \geq 0.995$	Recalibrate
		Continuing calibration (after every 10 samples, and end of run)	$\pm 20\%$	Recalibrate, reanalyze previous 10 samples
		Matrix spike (1 per batch)	$\pm 15\%$	Reanalyze batch or run by MSA.
		Matrix Spike Duplicates	See SOP	
		Method Blank (1 per 20 or batch)	$< 2.2 * \text{MDL}$	Reprocess samples
		Continuing Calibration Blank (CCB) (after lcal, every 10 samples, and end of run)	$< \text{MDL}$	
		QC Check Standard (after each calibration)	$\pm 10\%$	Recalibrate
		LCS(1 per batch)	$\pm 10\%$	Reprep batch and reanalyze

APPENDIX F

CORRECTIVE ACTION REPORT

WETLAB

NONCONFORMANCE CORRECTIVE ACTION REPORT

QC Batch ID:	Today's Date:
Analysis Date:	Originator:
Affected Sample #:	Test/Method:

Sample Analysis: Holding Time Expiration LCS Recovery Blank Contamination Calibration SOP / Method Deviation Other: _____	External Origin: Client Issue / Request Agency Requirement PE Results Other: _____
---	--

Problem:	

Corrective Action:	

Preventative Action:	

_____	_____
Responsible Individual (sign/date)	QA (sign/date)
Report Comments	
Please circle letter for all that apply <ul style="list-style-type: none"> • B – Blank Contamination; Analyte detected above the method reporting limit in an associated blank Sample # _____ / Analyte _____ • HT – Sample held beyond the accepted holding time. Sample # _____ / Analyte _____ • QL – Reported value is estimated; The LCS/LFB was outside acceptance criteria. Sample # _____ / Analyte _____ 	

State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: CWA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
Discipline: Chemistry				
By Calculation	Alkalinity, Bicarbonate (as CaCO ₃)	8/1/2019	7/31/2020	Certified
EPA 160.4	Residue-volatile	8/1/2019	7/31/2020	Certified
EPA 1664B	n-Hexane Extractable Material (O&G)	8/1/2019	7/31/2020	Certified
EPA 1664B (SGT-HEM)	n-Hexane Extractable Material - Silica Gel Treated (HEM-SGT)	8/1/2019	7/31/2020	Certified
EPA 180.1	Turbidity	8/1/2019	7/31/2020	Certified
EPA 200.2	Acid digest for metals	8/1/2019	7/31/2020	Certified
EPA 200.7	Aluminum	8/1/2019	7/31/2020	Certified
EPA 200.7	Antimony	8/1/2019	7/31/2020	Certified
EPA 200.7	Arsenic	8/1/2019	7/31/2020	Certified
EPA 200.7	Barium	8/1/2019	7/31/2020	Certified
EPA 200.7	Beryllium	8/1/2019	7/31/2020	Certified
EPA 200.7	Bismuth	8/1/2019	7/31/2020	Certified
EPA 200.7	Boron	8/1/2019	7/31/2020	Certified
EPA 200.7	Cadmium	8/1/2019	7/31/2020	Certified
EPA 200.7	Calcium	8/1/2019	7/31/2020	Certified
EPA 200.7	Chromium	8/1/2019	7/31/2020	Certified
EPA 200.7	Cobalt	8/1/2019	7/31/2020	Certified
EPA 200.7	Copper	8/1/2019	7/31/2020	Certified
EPA 200.7	Gallium	8/1/2019	7/31/2020	Certified
EPA 200.7	Iron	8/1/2019	7/31/2020	Certified
EPA 200.7	Lead	8/1/2019	7/31/2020	Certified
EPA 200.7	Lithium	8/1/2019	7/31/2020	Certified
EPA 200.7	Magnesium	8/1/2019	7/31/2020	Certified
EPA 200.7	Manganese	8/1/2019	7/31/2020	Certified
EPA 200.7	Molybdenum	8/1/2019	7/31/2020	Certified
EPA 200.7	Nickel	8/1/2019	7/31/2020	Certified
EPA 200.7	Phosphorus, total	8/1/2019	7/31/2020	Certified
EPA 200.7	Potassium	8/1/2019	7/31/2020	Certified
EPA 200.7	Scandium	8/1/2019	7/31/2020	Certified

Disclaimer: A laboratory that is certified or approved has established that they have the ability to implement a quality control program in accordance with the appropriate Federal or State regulations or statutes. It is the certified laboratory's responsibility to provide their client the most current certified parameter list. Contact LCP to verify certification status.

State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: **CWA (Non Potable Water)**

Method	Analyte	Start Date	Date Expires	Status
EPA 200.7	Selenium	8/1/2019	7/31/2020	Certified
EPA 200.7	Silica as SiO2	8/1/2019	7/31/2020	Certified
EPA 200.7	Silver	8/1/2019	7/31/2020	Certified
EPA 200.7	Sodium	8/1/2019	7/31/2020	Certified
EPA 200.7	Strontium	8/1/2019	7/31/2020	Certified
EPA 200.7	Thallium	8/1/2019	7/31/2020	Certified
EPA 200.7	Tin	8/1/2019	7/31/2020	Certified
EPA 200.7	Titanium	8/1/2019	7/31/2020	Certified
EPA 200.7	Vanadium	8/1/2019	7/31/2020	Certified
EPA 200.7	Zinc	8/1/2019	7/31/2020	Certified
EPA 200.8	Antimony	8/1/2019	7/31/2020	Certified
EPA 200.8	Arsenic	8/1/2019	7/31/2020	Certified
EPA 200.8	Barium	8/1/2019	7/31/2020	Certified
EPA 200.8	Beryllium	8/1/2019	7/31/2020	Certified
EPA 200.8	Cadmium	8/1/2019	7/31/2020	Certified
EPA 200.8	Chromium	8/1/2019	7/31/2020	Certified
EPA 200.8	Copper	8/1/2019	7/31/2020	Certified
EPA 200.8	Lead	8/1/2019	7/31/2020	Certified
EPA 200.8	Manganese	8/1/2019	7/31/2020	Certified
EPA 200.8	Molybdenum	8/1/2019	7/31/2020	Certified
EPA 200.8	Nickel	8/1/2019	7/31/2020	Certified
EPA 200.8	Selenium	8/1/2019	7/31/2020	Certified
EPA 200.8	Silver	8/1/2019	7/31/2020	Certified
EPA 200.8	Thallium	8/1/2019	7/31/2020	Certified
EPA 200.8	Uranium Total Mass	8/1/2019	7/31/2020	Certified
EPA 200.8	Zinc	8/1/2019	7/31/2020	Certified
EPA 245.1	Mercury	8/1/2019	7/31/2020	Certified
EPA 300.0	Bromide	8/1/2019	7/31/2020	Certified
EPA 300.0	Chloride	8/1/2019	7/31/2020	Certified
EPA 300.0	Fluoride	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
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EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: CWA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
EPA 300.0	Nitrate as N	8/1/2019	7/31/2020	Certified
EPA 300.0	Nitrate-nitrite	8/1/2019	7/31/2020	Certified
EPA 300.0	Nitrite as N	8/1/2019	7/31/2020	Certified
EPA 300.0	Sulfate	8/1/2019	7/31/2020	Certified
EPA 351.2	Kjeldahl nitrogen - total	8/1/2019	7/31/2020	Certified
EPA 353.2	Nitrate-nitrite	8/1/2019	7/31/2020	Certified
EPA 410.4	Chemical oxygen demand	8/1/2019	7/31/2020	Certified
EPA 624.1	1,1,1,2-Tetrachloroethane	8/1/2019	7/31/2020	Certified
EPA 624.1	1,1,1-Trichloroethane	8/1/2019	7/31/2020	Certified
EPA 624.1	1,1,2,2-Tetrachloroethane	8/1/2019	7/31/2020	Certified
EPA 624.1	1,1,2-Trichloroethane	8/1/2019	7/31/2020	Certified
EPA 624.1	1,1-Dichloroethane	8/1/2019	7/31/2020	Certified
EPA 624.1	1,1-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 624.1	1,2,3-Trichloropropane	8/1/2019	7/31/2020	Certified
EPA 624.1	1,2,4-Trichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 624.1	1,2,4-Trimethylbenzene	8/1/2019	7/31/2020	Certified
EPA 624.1	1,2-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 624.1	1,2-Dichloroethane	8/1/2019	7/31/2020	Certified
EPA 624.1	1,2-Dichloropropane	8/1/2019	7/31/2020	Certified
EPA 624.1	1,3,5-Trimethylbenzene	8/1/2019	7/31/2020	Certified
EPA 624.1	1,3-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 624.1	1,4-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 624.1	2-Butanone (Methyl ethyl ketone, MEK)	8/1/2019	7/31/2020	Certified
EPA 624.1	2-Chloroethyl vinyl ether	8/1/2019	7/31/2020	Certified
EPA 624.1	2-Hexanone	8/1/2019	7/31/2020	Certified
EPA 624.1	4-Methyl-2-pentanone (MIBK)	8/1/2019	7/31/2020	Certified
EPA 624.1	Acetone	8/1/2019	7/31/2020	Certified
EPA 624.1	Acetonitrile	8/1/2019	7/31/2020	Certified
EPA 624.1	Acrolein (Propenal)	8/1/2019	7/31/2020	Certified
EPA 624.1	Acrylonitrile	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
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EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: CWA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
EPA 624.1	Benzene	8/1/2019	7/31/2020	Certified
EPA 624.1	Bromodichloromethane	8/1/2019	7/31/2020	Certified
EPA 624.1	Bromoform	8/1/2019	7/31/2020	Certified
EPA 624.1	Carbon disulfide	8/1/2019	7/31/2020	Certified
EPA 624.1	Carbon tetrachloride	8/1/2019	7/31/2020	Certified
EPA 624.1	Chlorobenzene	8/1/2019	7/31/2020	Certified
EPA 624.1	Chlorodibromomethane (Dibromochloromethane)	8/1/2019	7/31/2020	Certified
EPA 624.1	Chloroethane (Ethyl chloride)	8/1/2019	7/31/2020	Certified
EPA 624.1	Chloroform	8/1/2019	7/31/2020	Certified
EPA 624.1	cis-1,2-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 624.1	cis-1,3-Dichloropropene (cis-1,3-Dichloropropylene)	8/1/2019	7/31/2020	Certified
EPA 624.1	Dibromomethane (Methylene bromide)	8/1/2019	7/31/2020	Certified
EPA 624.1	Dichlorodifluoromethane (Freon-12)	8/1/2019	7/31/2020	Certified
EPA 624.1	Di-isopropylether (DIPE)	8/1/2019	7/31/2020	Certified
EPA 624.1	Ethylbenzene	8/1/2019	7/31/2020	Certified
EPA 624.1	Hexachlorobutadiene	8/1/2019	7/31/2020	Certified
EPA 624.1	m+p-xylene	8/1/2019	7/31/2020	Certified
EPA 624.1	Methyl bromide (Bromomethane)	8/1/2019	7/31/2020	Certified
EPA 624.1	Methyl chloride (Chloromethane)	8/1/2019	7/31/2020	Certified
EPA 624.1	Methyl tert-butyl ether (MTBE)	8/1/2019	7/31/2020	Certified
EPA 624.1	Methylene chloride (Dichloromethane)	8/1/2019	7/31/2020	Certified
EPA 624.1	Naphthalene	8/1/2019	7/31/2020	Certified
EPA 624.1	o-Xylene	8/1/2019	7/31/2020	Certified
EPA 624.1	Styrene	8/1/2019	7/31/2020	Certified
EPA 624.1	T-amylmethylether (TAME)	8/1/2019	7/31/2020	Certified
EPA 624.1	Tetrachloroethylene (Perchloroethylene)	8/1/2019	7/31/2020	Certified
EPA 624.1	Toluene	8/1/2019	7/31/2020	Certified
EPA 624.1	trans-1,2-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 624.1	trans-1,3-Dichloropropene (trans-1,3-Dichloropropylene)	8/1/2019	7/31/2020	Certified
EPA 624.1	Trichloroethene (Trichloroethylene)	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
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EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: CWA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
EPA 624.1	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	8/1/2019	7/31/2020	Certified
EPA 624.1	Vinyl acetate	8/1/2019	7/31/2020	Certified
EPA 624.1	Vinyl chloride	8/1/2019	7/31/2020	Certified
EPA 624.1	Xylene (total)	8/1/2019	7/31/2020	Certified
EPA 625.1	1,2,4-Trichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 625.1	2,4,5-Trichlorophenol	8/1/2019	7/31/2020	Certified
EPA 625.1	2,4,6-Trichlorophenol	8/1/2019	7/31/2020	Certified
EPA 625.1	2,4-Dichlorophenol	8/1/2019	7/31/2020	Certified
EPA 625.1	2,4-Dimethylphenol	8/1/2019	7/31/2020	Certified
EPA 625.1	2,4-Dinitrophenol	8/1/2019	7/31/2020	Certified
EPA 625.1	2,4-Dinitrotoluene (2,4-DNT)	8/1/2019	7/31/2020	Certified
EPA 625.1	2,6-Dinitrotoluene (2,6-DNT)	8/1/2019	7/31/2020	Certified
EPA 625.1	2-Chloronaphthalene	8/1/2019	7/31/2020	Certified
EPA 625.1	2-Chlorophenol	8/1/2019	7/31/2020	Certified
EPA 625.1	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	8/1/2019	7/31/2020	Certified
EPA 625.1	2-Methylnaphthalene	8/1/2019	7/31/2020	Certified
EPA 625.1	2-Methylphenol (o-Cresol)	8/1/2019	7/31/2020	Certified
EPA 625.1	2-Nitroaniline	8/1/2019	7/31/2020	Certified
EPA 625.1	2-Nitrophenol	8/1/2019	7/31/2020	Certified
EPA 625.1	3 & 4-Methylphenol (m & p-Cresol)	8/1/2019	7/31/2020	Certified
EPA 625.1	3,3'-Dichlorobenzidine	8/1/2019	7/31/2020	Certified
EPA 625.1	3-Nitroaniline	8/1/2019	7/31/2020	Certified
EPA 625.1	4-Bromophenyl phenyl ether	8/1/2019	7/31/2020	Certified
EPA 625.1	4-Chloro-3-methylphenol	8/1/2019	7/31/2020	Certified
EPA 625.1	4-Chloroaniline	8/1/2019	7/31/2020	Certified
EPA 625.1	4-Chlorophenyl phenylether	8/1/2019	7/31/2020	Certified
EPA 625.1	4-Nitroaniline	8/1/2019	7/31/2020	Certified
EPA 625.1	4-Nitrophenol	8/1/2019	7/31/2020	Certified
EPA 625.1	Acenaphthene	8/1/2019	7/31/2020	Certified
EPA 625.1	Acenaphthylene	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
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EPA Number: NV00925

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Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: **CWA (Non Potable Water)**

Method	Analyte	Start Date	Date Expires	Status
EPA 625.1	Anthracene	8/1/2019	7/31/2020	Certified
EPA 625.1	Benzidine	8/1/2019	7/31/2020	Certified
EPA 625.1	Benzo(a)anthracene	8/1/2019	7/31/2020	Certified
EPA 625.1	Benzo(a)pyrene	8/1/2019	7/31/2020	Certified
EPA 625.1	Benzo(b)fluoranthene	8/1/2019	7/31/2020	Certified
EPA 625.1	Benzo(g,h,i)perylene	8/1/2019	7/31/2020	Certified
EPA 625.1	Benzo(k)fluoranthene	8/1/2019	7/31/2020	Certified
EPA 625.1	Benzoic acid	8/1/2019	7/31/2020	Certified
EPA 625.1	Benzyl alcohol	8/1/2019	7/31/2020	Certified
EPA 625.1	bis(2-Chloroethoxy)methane	8/1/2019	7/31/2020	Certified
EPA 625.1	bis(2-Chloroethyl) ether	8/1/2019	7/31/2020	Certified
EPA 625.1	bis(2-Chloroisopropyl) ether, (2,2'-Oxybis(1-chloropropane))	8/1/2019	7/31/2020	Certified
EPA 625.1	bis(2-Ethylhexyl)phthalate,(DEHP, Di(2-ethylhexyl) phthalate)	8/1/2019	7/31/2020	Certified
EPA 625.1	Butyl benzyl phthalate	8/1/2019	7/31/2020	Certified
EPA 625.1	Chrysene	8/1/2019	7/31/2020	Certified
EPA 625.1	Dibenz(a,h) anthracene	8/1/2019	7/31/2020	Certified
EPA 625.1	Dibenzofuran	8/1/2019	7/31/2020	Certified
EPA 625.1	Diethyl phthalate	8/1/2019	7/31/2020	Certified
EPA 625.1	Dimethyl phthalate	8/1/2019	7/31/2020	Certified
EPA 625.1	Di-n-butyl phthalate	8/1/2019	7/31/2020	Certified
EPA 625.1	Di-n-octyl phthalate	8/1/2019	7/31/2020	Certified
EPA 625.1	Fluoranthene	8/1/2019	7/31/2020	Certified
EPA 625.1	Fluorene	8/1/2019	7/31/2020	Certified
EPA 625.1	Hexachlorobenzene	8/1/2019	7/31/2020	Certified
EPA 625.1	Hexachlorobutadiene	8/1/2019	7/31/2020	Certified
EPA 625.1	Hexachlorocyclopentadiene	8/1/2019	7/31/2020	Certified
EPA 625.1	Hexachloroethane	8/1/2019	7/31/2020	Certified
EPA 625.1	Indeno(1,2,3-cd) pyrene	8/1/2019	7/31/2020	Certified
EPA 625.1	Isophorone	8/1/2019	7/31/2020	Certified
EPA 625.1	Naphthalene	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
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EPA Number: NV00925

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Expiration Date: 7/31/2020

Western Environmental Testing - Sparks
 475 East Greg St.
 Suite#119 Sparks, NV 89431-

Matrix: CWA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
EPA 625.1	Nitrobenzene	8/1/2019	7/31/2020	Certified
EPA 625.1	n-Nitrosodimethylamine	8/1/2019	7/31/2020	Certified
EPA 625.1	n-Nitrosodi-n-propylamine	8/1/2019	7/31/2020	Certified
EPA 625.1	n-Nitrosodiphenylamine	8/1/2019	7/31/2020	Certified
EPA 625.1	Pentachlorophenol	8/1/2019	7/31/2020	Certified
EPA 625.1	Phenanthrene	8/1/2019	7/31/2020	Certified
EPA 625.1	Phenol	8/1/2019	7/31/2020	Certified
EPA 625.1	Pyrene	8/1/2019	7/31/2020	Certified
HACH 8131	Sulfide	8/1/2019	7/31/2020	Certified
HACH 8167	Total Chlorine (residual)	8/1/2019	7/31/2020	Certified
Organic Nitrogen by Calculation (TKN - NH3)	Organic nitrogen	8/1/2019	7/31/2020	Certified
SM 2120 B	Color	8/1/2019	7/31/2020	Certified
SM 2310 B	Acidity, as CaCO3	8/1/2019	7/31/2020	Certified
SM 2320 B	Alkalinity as CaCO3	8/1/2019	7/31/2020	Certified
SM 2340 B	Calcium hardness as CaCO3	8/1/2019	7/31/2020	Certified
SM 2340 B	Hardness by calculation	8/1/2019	7/31/2020	Certified
SM 2510 B	Conductivity	8/1/2019	7/31/2020	Certified
SM 2540 B	Residue-total, dissolved and suspended	8/1/2019	7/31/2020	Certified
SM 2540 C	Residue-filterable (TDS)	8/1/2019	7/31/2020	Certified
SM 2540 D	Residue-nonfilterable (TSS)	8/1/2019	7/31/2020	Certified
SM 2540 E	Residue-volatile	8/1/2019	7/31/2020	Certified
SM 2540 F	Residue-settleable	8/1/2019	7/31/2020	Certified
SM 2550 B	Temperature, deg. C	8/1/2019	7/31/2020	Certified
SM 4500-CN ⁻ C,E	Cyanide, Total	8/1/2019	7/31/2020	Certified
SM 4500-CN ⁻ I,E	Cyanide, WAD	8/1/2019	7/31/2020	Certified
SM 4500-H+ B	pH	8/1/2019	7/31/2020	Certified
SM 4500-NH3 B	Ammonia as N	8/1/2019	7/31/2020	Certified
SM 4500-NH3 D - 2011	Ammonia as N	8/1/2019	7/31/2020	Certified
SM 4500-O G	Oxygen, dissolved	8/1/2019	7/31/2020	Certified
SM 4500-P B Plus E-2011	Phosphorus, total	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
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EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks
475 East Greg St.
Suite#119 Sparks, NV 89431-

Matrix: **CWA (Non Potable Water)**

Method	Analyte	Start Date	Date Expires	Status
SM 4500-P E	Orthophosphate as P	8/1/2019	7/31/2020	Certified
SM 5210 B	Biochemical oxygen demand	8/1/2019	7/31/2020	Certified
SM 5210 B	Carbonaceous BOD, CBOD	8/1/2019	7/31/2020	Certified
SM 5310 C	Dissolved Organic Carbon (DOC)	8/1/2019	7/31/2020	Certified
SM 5310 C	Total Organic Carbon	8/1/2019	7/31/2020	Certified
SM 5540 C	Surfactants - MBAS	8/1/2019	7/31/2020	Certified
Total Nitrogen by Calc (NO2 + NO3 + TKN)	Total Nitrogen	8/1/2019	7/31/2020	Certified
Discipline: Microbiology				
IDEXX Quanti-Tray® using Colilert®	E. coli enumeration	8/1/2019	7/31/2020	Certified
IDEXX Quanti-Tray® using Colilert®-18Hr®	Fecal coliforms	8/1/2019	7/31/2020	Certified
SM 9222 D (m-FC)	Fecal coliforms	8/1/2019	7/31/2020	Certified

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Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: **Mining (Non Potable Water)**

Method	Analyte	Start Date	Date Expires	Status
Discipline: Chemistry				
ASTM D1498	Redox Potential (ORP)	8/1/2019	7/31/2020	Certified
EPA 200.7 minus SM 3500-Fe B (4c)	Iron-(III) (Ferric Iron)	8/1/2019	7/31/2020	Certified
SM 2580 B-2011	Redox Potential (ORP)	8/1/2019	7/31/2020	Certified
SM 3500-Fe B 4 (c)	Iron-(II) (Ferrous Iron)	8/1/2019	7/31/2020	Certified

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EPA Number: NV00925

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Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: *Mining (Solid & Waste Materials)*

Method	Analyte	Start Date	Date Expires	Status
Discipline: Chemistry				
ASTM C1308-08	Diffusive Releases	8/1/2019	7/31/2020	Nevada Approved
ASTM D5744-13	Weathering Products of Solid Materials	8/1/2019	7/31/2020	Nevada Approved
ASTM D7572-11	Cyanide Extraction Fluid from Soils and Mine Rock	8/1/2019	7/31/2020	Nevada Approved
ASTM E2242-13	MWMP Fluid (WITHOUT bottle roll option)	8/1/2019	7/31/2020	Nevada Approved
ASTM E2242-13 Appendix X1.2	MWMP Fluid (FROM bottle roll option_Non Percolating Material)	8/1/2019	7/31/2020	Nevada Approved
ASTM E2242-13 Appendix X1.3	MWMP Fluid (FROM bottle roll option_Fine Grained Material)	8/1/2019	7/31/2020	Nevada Approved
EPA 600/2-78-054, section 3.2.2_NV Modified	Paste pH	8/1/2019	7/31/2020	Certified
EPA 600/2-78-054, section 3.2.3_NV Modified	ANP by Titration to phenolphthalein end point (after oxidation_hydrogen peroxide)	8/1/2019	7/31/2020	Nevada Approved
EPA 600/2-78-054, section 3.2.3_NV Modified	ANP by Titration to phenolphthalein end point (without oxidation)	8/1/2019	7/31/2020	Nevada Approved
EPA 600/2-78-054, section 3.2.4_NV Modified	Total Sulfur (High Temp. Combustion Method)	8/1/2019	7/31/2020	Certified
EPA 600/2-78-054, section 3.2.6_NV Modified	HCl Extractable Sulfur	8/1/2019	7/31/2020	Nevada Approved
EPA 600/2-78-054, section 3.2.6_NV Modified	HNO3 Extractable Sulfur	8/1/2019	7/31/2020	Nevada Approved
EPA 600/2-78-054, section 3.2.6_NV Modified	Hot Water Extractable Sulfur	8/1/2019	7/31/2020	Nevada Approved
Warwick-Stuart-Roger, 7th ICARD	Net Acid Generation (NAG)	8/1/2019	7/31/2020	Nevada Approved

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Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
Discipline: Chemistry				
EPA 6010	Aluminum	8/1/2019	7/31/2020	Certified
EPA 6010	Antimony	8/1/2019	7/31/2020	Certified
EPA 6010	Arsenic	8/1/2019	7/31/2020	Certified
EPA 6010	Barium	8/1/2019	7/31/2020	Certified
EPA 6010	Beryllium	8/1/2019	7/31/2020	Certified
EPA 6010	Boron	8/1/2019	7/31/2020	Certified
EPA 6010	Cadmium	8/1/2019	7/31/2020	Certified
EPA 6010	Calcium	8/1/2019	7/31/2020	Certified
EPA 6010	Chromium	8/1/2019	7/31/2020	Certified
EPA 6010	Cobalt	8/1/2019	7/31/2020	Certified
EPA 6010	Copper	8/1/2019	7/31/2020	Certified
EPA 6010	Iron	8/1/2019	7/31/2020	Certified
EPA 6010	Lead	8/1/2019	7/31/2020	Certified
EPA 6010	Lithium	8/1/2019	7/31/2020	Certified
EPA 6010	Magnesium	8/1/2019	7/31/2020	Certified
EPA 6010	Manganese	8/1/2019	7/31/2020	Certified
EPA 6010	Molybdenum	8/1/2019	7/31/2020	Certified
EPA 6010	Nickel	8/1/2019	7/31/2020	Certified
EPA 6010	Phosphorus, total	8/1/2019	7/31/2020	Certified
EPA 6010	Potassium	8/1/2019	7/31/2020	Certified
EPA 6010	Selenium	8/1/2019	7/31/2020	Certified
EPA 6010	Silica as SiO2	8/1/2019	7/31/2020	Certified
EPA 6010	Silver	8/1/2019	7/31/2020	Certified
EPA 6010	Sodium	8/1/2019	7/31/2020	Certified
EPA 6010	Strontium	8/1/2019	7/31/2020	Certified
EPA 6010	Thallium	8/1/2019	7/31/2020	Certified
EPA 6010	Tin	8/1/2019	7/31/2020	Certified
EPA 6010	Titanium	8/1/2019	7/31/2020	Certified
EPA 6010	Vanadium	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
EPA 6010	Zinc	8/1/2019	7/31/2020	Certified
EPA 6020	Antimony	8/1/2019	7/31/2020	Certified
EPA 6020	Arsenic	8/1/2019	7/31/2020	Certified
EPA 6020	Barium	8/1/2019	7/31/2020	Certified
EPA 6020	Beryllium	8/1/2019	7/31/2020	Certified
EPA 6020	Cadmium	8/1/2019	7/31/2020	Certified
EPA 6020	Chromium	8/1/2019	7/31/2020	Certified
EPA 6020	Copper	8/1/2019	7/31/2020	Certified
EPA 6020	Lead	8/1/2019	7/31/2020	Certified
EPA 6020	Manganese	8/1/2019	7/31/2020	Certified
EPA 6020	Molybdenum	8/1/2019	7/31/2020	Certified
EPA 6020	Nickel	8/1/2019	7/31/2020	Certified
EPA 6020	Selenium	8/1/2019	7/31/2020	Certified
EPA 6020	Silver	8/1/2019	7/31/2020	Certified
EPA 6020	Thallium	8/1/2019	7/31/2020	Certified
EPA 6020	Uranium Total Mass	8/1/2019	7/31/2020	Certified
EPA 6020	Zinc	8/1/2019	7/31/2020	Certified
EPA 7470	Mercury	8/1/2019	7/31/2020	Certified
EPA 8015	Diesel range organics (DRO)	8/1/2019	7/31/2020	Certified
EPA 8015	Gasoline range organics (GRO)	8/1/2019	7/31/2020	Certified
EPA 8015	Residual Range Organics (RRO) - Oil Range Organics	8/1/2019	7/31/2020	Certified
EPA 8260	1,1,1,2-Tetrachloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,1,1-Trichloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,1,2,2-Tetrachloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8/1/2019	7/31/2020	Certified
EPA 8260	1,1,2-Trichloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,1-Dichloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,1-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 8260	1,1-Dichloropropene	8/1/2019	7/31/2020	Certified
EPA 8260	1,2,3-Trichlorobenzene	8/1/2019	7/31/2020	Certified

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**State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation**

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
EPA 8260	1,2,3-Trichloropropane	8/1/2019	7/31/2020	Certified
EPA 8260	1,2,4-Trichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,2,4-Trimethylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	8/1/2019	7/31/2020	Certified
EPA 8260	1,2-Dibromoethane (EDB, Ethylene dibromide)	8/1/2019	7/31/2020	Certified
EPA 8260	1,2-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,2-Dichloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,2-Dichloropropane	8/1/2019	7/31/2020	Certified
EPA 8260	1,3,5-Trimethylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,3-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,3-Dichloropropane	8/1/2019	7/31/2020	Certified
EPA 8260	1,4-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	2,2-Dichloropropane	8/1/2019	7/31/2020	Certified
EPA 8260	2-Butanone (Methyl ethyl ketone, MEK)	8/1/2019	7/31/2020	Certified
EPA 8260	2-Chloroethyl vinyl ether	8/1/2019	7/31/2020	Certified
EPA 8260	2-Chlorotoluene	8/1/2019	7/31/2020	Certified
EPA 8260	2-Hexanone	8/1/2019	7/31/2020	Certified
EPA 8260	4-Chlorotoluene	8/1/2019	7/31/2020	Certified
EPA 8260	4-Isopropyltoluene (p-Cymene)	8/1/2019	7/31/2020	Certified
EPA 8260	4-Methyl-2-pentanone (MIBK)	8/1/2019	7/31/2020	Certified
EPA 8260	Acetone	8/1/2019	7/31/2020	Certified
EPA 8260	Acetonitrile	8/1/2019	7/31/2020	Certified
EPA 8260	Acrolein (Propenal)	8/1/2019	7/31/2020	Certified
EPA 8260	Acrylonitrile	8/1/2019	7/31/2020	Certified
EPA 8260	Benzene	8/1/2019	7/31/2020	Certified
EPA 8260	Bromobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	Bromochloromethane	8/1/2019	7/31/2020	Certified
EPA 8260	Bromodichloromethane	8/1/2019	7/31/2020	Certified
EPA 8260	Bromoform	8/1/2019	7/31/2020	Certified
EPA 8260	Carbon disulfide	8/1/2019	7/31/2020	Certified

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**State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation**

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks
475 East Greg St.
Suite#119 Sparks, NV 89431-

Matrix: RCRA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
EPA 8260	Carbon tetrachloride	8/1/2019	7/31/2020	Certified
EPA 8260	Chlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	Chlorodibromomethane (Dibromochloromethane)	8/1/2019	7/31/2020	Certified
EPA 8260	Chloroethane (Ethyl chloride)	8/1/2019	7/31/2020	Certified
EPA 8260	Chloroform	8/1/2019	7/31/2020	Certified
EPA 8260	cis-1,2-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 8260	cis-1,3-Dichloropropene (cis-1,3-Dichloropropylene)	8/1/2019	7/31/2020	Certified
EPA 8260	Dibromomethane (Methylene bromide)	8/1/2019	7/31/2020	Certified
EPA 8260	Dichlorodifluoromethane (Freon-12)	8/1/2019	7/31/2020	Certified
EPA 8260	Di-isopropylether (DIPE)	8/1/2019	7/31/2020	Certified
EPA 8260	Ethylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	8/1/2019	7/31/2020	Certified
EPA 8260	Hexachlorobutadiene	8/1/2019	7/31/2020	Certified
EPA 8260	Isopropylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	m+p-xylene	8/1/2019	7/31/2020	Certified
EPA 8260	Methyl bromide (Bromomethane)	8/1/2019	7/31/2020	Certified
EPA 8260	Methyl chloride (Chloromethane)	8/1/2019	7/31/2020	Certified
EPA 8260	Methyl tert-butyl ether (MTBE)	8/1/2019	7/31/2020	Certified
EPA 8260	Methylene chloride (Dichloromethane)	8/1/2019	7/31/2020	Certified
EPA 8260	Naphthalene	8/1/2019	7/31/2020	Certified
EPA 8260	n-Butylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	n-Propylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	o-Xylene	8/1/2019	7/31/2020	Certified
EPA 8260	sec-Butylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	Styrene	8/1/2019	7/31/2020	Certified
EPA 8260	T-amylmethylether (TAME)	8/1/2019	7/31/2020	Certified
EPA 8260	tert-Butyl alcohol (TBA)	8/1/2019	7/31/2020	Certified
EPA 8260	tert-Butylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	Tetrachloroethylene (Perchloroethylene)	8/1/2019	7/31/2020	Certified
EPA 8260	Toluene	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
EPA 8260	trans-1,2-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 8260	trans-1,3-Dichloropropene (trans-1,3-Dichloropropylene)	8/1/2019	7/31/2020	Certified
EPA 8260	Trichloroethene (Trichloroethylene)	8/1/2019	7/31/2020	Certified
EPA 8260	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	8/1/2019	7/31/2020	Certified
EPA 8260	Vinyl acetate	8/1/2019	7/31/2020	Certified
EPA 8260	Vinyl chloride	8/1/2019	7/31/2020	Certified
EPA 8260	Xylene (total)	8/1/2019	7/31/2020	Certified
EPA 8270	1,2,4-Trichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	1,2-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	1,2-Diphenylhydrazine	8/1/2019	7/31/2020	Certified
EPA 8270	1,3-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	1,4-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	1-Methylnaphthalene	8/1/2019	7/31/2020	Certified
EPA 8270	2,4,5-Trichlorophenol	8/1/2019	7/31/2020	Certified
EPA 8270	2,4,6-Trichlorophenol	8/1/2019	7/31/2020	Certified
EPA 8270	2,4-Dichlorophenol	8/1/2019	7/31/2020	Certified
EPA 8270	2,4-Dimethylphenol	8/1/2019	7/31/2020	Certified
EPA 8270	2,4-Dinitrophenol	8/1/2019	7/31/2020	Certified
EPA 8270	2,4-Dinitrotoluene (2,4-DNT)	8/1/2019	7/31/2020	Certified
EPA 8270	2,6-Dinitrotoluene (2,6-DNT)	8/1/2019	7/31/2020	Certified
EPA 8270	2-Chloronaphthalene	8/1/2019	7/31/2020	Certified
EPA 8270	2-Chlorophenol	8/1/2019	7/31/2020	Certified
EPA 8270	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	8/1/2019	7/31/2020	Certified
EPA 8270	2-Methylnaphthalene	8/1/2019	7/31/2020	Certified
EPA 8270	2-Methylphenol (o-Cresol)	8/1/2019	7/31/2020	Certified
EPA 8270	2-Nitroaniline	8/1/2019	7/31/2020	Certified
EPA 8270	2-Nitrophenol	8/1/2019	7/31/2020	Certified
EPA 8270	3 & 4-Methylphenol (m & p-Cresol)	8/1/2019	7/31/2020	Certified
EPA 8270	3,3'-Dichlorobenzidine	8/1/2019	7/31/2020	Certified
EPA 8270	3-Nitroaniline	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Non Potable Water)

Method	Analyte	Start Date	Date Expires	Status
EPA 8270	4-Bromophenyl phenyl ether	8/1/2019	7/31/2020	Certified
EPA 8270	4-Chloro-3-methylphenol	8/1/2019	7/31/2020	Certified
EPA 8270	4-Chloroaniline	8/1/2019	7/31/2020	Certified
EPA 8270	4-Chlorophenyl phenylether	8/1/2019	7/31/2020	Certified
EPA 8270	4-Nitroaniline	8/1/2019	7/31/2020	Certified
EPA 8270	4-Nitrophenol	8/1/2019	7/31/2020	Certified
EPA 8270	Acenaphthene	8/1/2019	7/31/2020	Certified
EPA 8270	Acenaphthylene	8/1/2019	7/31/2020	Certified
EPA 8270	Anthracene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzidine	8/1/2019	7/31/2020	Certified
EPA 8270	Benzo(a)anthracene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzo(a)pyrene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzo(b)fluoranthene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzo(g,h,i)perylene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzo(k)fluoranthene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzoic acid	8/1/2019	7/31/2020	Certified
EPA 8270	Benzyl alcohol	8/1/2019	7/31/2020	Certified
EPA 8270	bis(2-Chloroethoxy)methane	8/1/2019	7/31/2020	Certified
EPA 8270	bis(2-Chloroethyl) ether	8/1/2019	7/31/2020	Certified
EPA 8270	bis(2-Chloroisopropyl) ether, (2,2'-Oxybis(1-chloropropane))	8/1/2019	7/31/2020	Certified
EPA 8270	bis(2-Ethylhexyl)phthalate,(DEHP, Di(2-ethylhexyl) phthalate)	8/1/2019	7/31/2020	Certified
EPA 8270	Butyl benzyl phthalate	8/1/2019	7/31/2020	Certified
EPA 8270	Carbazole	8/1/2019	7/31/2020	Certified
EPA 8270	Chrysene	8/1/2019	7/31/2020	Certified
EPA 8270	Dibenz(a,h) anthracene	8/1/2019	7/31/2020	Certified
EPA 8270	Dibenzofuran	8/1/2019	7/31/2020	Certified
EPA 8270	Diethyl phthalate	8/1/2019	7/31/2020	Certified
EPA 8270	Dimethyl phthalate	8/1/2019	7/31/2020	Certified
EPA 8270	Di-n-butyl phthalate	8/1/2019	7/31/2020	Certified
EPA 8270	Di-n-octyl phthalate	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks
475 East Greg St.
Suite#119 Sparks, NV 89431-

Matrix: **RCRA (Non Potable Water)**

Method	Analyte	Start Date	Date Expires	Status
EPA 8270	Fluoranthene	8/1/2019	7/31/2020	Certified
EPA 8270	Fluorene	8/1/2019	7/31/2020	Certified
EPA 8270	Hexachlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	Hexachlorobutadiene	8/1/2019	7/31/2020	Certified
EPA 8270	Hexachlorocyclopentadiene	8/1/2019	7/31/2020	Certified
EPA 8270	Hexachloroethane	8/1/2019	7/31/2020	Certified
EPA 8270	Indeno(1,2,3-cd) pyrene	8/1/2019	7/31/2020	Certified
EPA 8270	Isophorone	8/1/2019	7/31/2020	Certified
EPA 8270	Naphthalene	8/1/2019	7/31/2020	Certified
EPA 8270	Nitrobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	n-Nitrosodimethylamine	8/1/2019	7/31/2020	Certified
EPA 8270	n-Nitrosodi-n-propylamine	8/1/2019	7/31/2020	Certified
EPA 8270	n-Nitrosodiphenylamine	8/1/2019	7/31/2020	Certified
EPA 8270	Pentachlorophenol	8/1/2019	7/31/2020	Certified
EPA 8270	Phenanthrene	8/1/2019	7/31/2020	Certified
EPA 8270	Phenol	8/1/2019	7/31/2020	Certified
EPA 8270	Pyrene	8/1/2019	7/31/2020	Certified
SM 2540 C	Residue-filterable (TDS)	8/1/2019	7/31/2020	Certified
SM 2550 B	Temperature, deg. C	8/1/2019	7/31/2020	Certified

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Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Solid & Waste Materials)

Method	Analyte	Start Date	Date Expires	Status
Discipline: Chemistry				
EPA 1311-Metals	TCLP extracted Metals	8/1/2019	7/31/2020	Certified
EPA 1311-VOCs	TCLP extracted VOCs	8/1/2019	7/31/2020	Certified
EPA 1312-Metals	SPLP extracted Metals	8/1/2019	7/31/2020	Certified
EPA 1312-VOCs	SPLP extracted VOCs	8/1/2019	7/31/2020	Certified
EPA 3050	Acid digest for metals	8/1/2019	7/31/2020	Certified
EPA 351.2 M	Kjeldahl nitrogen - total	8/1/2019	7/31/2020	Certified
EPA 6010	Aluminum	8/1/2019	7/31/2020	Certified
EPA 6010	Antimony	8/1/2019	7/31/2020	Certified
EPA 6010	Arsenic	8/1/2019	7/31/2020	Certified
EPA 6010	Barium	8/1/2019	7/31/2020	Certified
EPA 6010	Beryllium	8/1/2019	7/31/2020	Certified
EPA 6010	Boron	8/1/2019	7/31/2020	Certified
EPA 6010	Cadmium	8/1/2019	7/31/2020	Certified
EPA 6010	Calcium	8/1/2019	7/31/2020	Certified
EPA 6010	Chromium	8/1/2019	7/31/2020	Certified
EPA 6010	Cobalt	8/1/2019	7/31/2020	Certified
EPA 6010	Copper	8/1/2019	7/31/2020	Certified
EPA 6010	Iron	8/1/2019	7/31/2020	Certified
EPA 6010	Lead	8/1/2019	7/31/2020	Certified
EPA 6010	Lithium	8/1/2019	7/31/2020	Certified
EPA 6010	Magnesium	8/1/2019	7/31/2020	Certified
EPA 6010	Manganese	8/1/2019	7/31/2020	Certified
EPA 6010	Molybdenum	8/1/2019	7/31/2020	Certified
EPA 6010	Nickel	8/1/2019	7/31/2020	Certified
EPA 6010	Phosphorus, total	8/1/2019	7/31/2020	Certified
EPA 6010	Potassium	8/1/2019	7/31/2020	Certified
EPA 6010	Selenium	8/1/2019	7/31/2020	Certified
EPA 6010	Silver	8/1/2019	7/31/2020	Certified
EPA 6010	Sodium	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks
475 East Greg St.
Suite#119 Sparks, NV 89431-

Matrix: RCRA (Solid & Waste Materials)

Method	Analyte	Start Date	Date Expires	Status
EPA 6010	Strontium	8/1/2019	7/31/2020	Certified
EPA 6010	Thallium	8/1/2019	7/31/2020	Certified
EPA 6010	Tin	8/1/2019	7/31/2020	Certified
EPA 6010	Titanium	8/1/2019	7/31/2020	Certified
EPA 6010	Vanadium	8/1/2019	7/31/2020	Certified
EPA 6010	Zinc	8/1/2019	7/31/2020	Certified
EPA 6020	Antimony	8/1/2019	7/31/2020	Certified
EPA 6020	Arsenic	8/1/2019	7/31/2020	Certified
EPA 6020	Beryllium	8/1/2019	7/31/2020	Certified
EPA 6020	Cadmium	8/1/2019	7/31/2020	Certified
EPA 6020	Copper	8/1/2019	7/31/2020	Certified
EPA 6020	Manganese	8/1/2019	7/31/2020	Certified
EPA 6020	Mercury	8/1/2019	7/31/2020	Certified
EPA 6020	Molybdenum	8/1/2019	7/31/2020	Certified
EPA 6020	Selenium	8/1/2019	7/31/2020	Certified
EPA 6020	Thallium	8/1/2019	7/31/2020	Certified
EPA 6020	Uranium Total Mass	8/1/2019	7/31/2020	Certified
EPA 6020	Zinc	8/1/2019	7/31/2020	Certified
EPA 7471	Mercury	8/1/2019	7/31/2020	Certified
EPA 8015	Diesel range organics (DRO)	8/1/2019	7/31/2020	Certified
EPA 8015	Gasoline range organics (GRO)	8/1/2019	7/31/2020	Certified
EPA 8015	Residual Range Organics (RRO) - Oil Range Organics	8/1/2019	7/31/2020	Certified
EPA 8260	1,1,1,2-Tetrachloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,1,1-Trichloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,1,2,2-Tetrachloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8/1/2019	7/31/2020	Certified
EPA 8260	1,1,2-Trichloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,1-Dichloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,1-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 8260	1,1-Dichloropropene	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Solid & Waste Materials)

Method	Analyte	Start Date	Date Expires	Status
EPA 8260	1,2,3-Trichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,2,3-Trichloropropane	8/1/2019	7/31/2020	Certified
EPA 8260	1,2,4-Trichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,2,4-Trimethylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	8/1/2019	7/31/2020	Certified
EPA 8260	1,2-Dibromoethane (EDB, Ethylene dibromide)	8/1/2019	7/31/2020	Certified
EPA 8260	1,2-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,2-Dichloroethane	8/1/2019	7/31/2020	Certified
EPA 8260	1,2-Dichloropropane	8/1/2019	7/31/2020	Certified
EPA 8260	1,3,5-Trimethylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,3-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	1,3-Dichloropropane	8/1/2019	7/31/2020	Certified
EPA 8260	1,4-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	2,2-Dichloropropane	8/1/2019	7/31/2020	Certified
EPA 8260	2-Butanone (Methyl ethyl ketone, MEK)	8/1/2019	7/31/2020	Certified
EPA 8260	2-Chloroethyl vinyl ether	8/1/2019	7/31/2020	Certified
EPA 8260	2-Chlorotoluene	8/1/2019	7/31/2020	Certified
EPA 8260	2-Hexanone	8/1/2019	7/31/2020	Certified
EPA 8260	4-Chlorotoluene	8/1/2019	7/31/2020	Certified
EPA 8260	4-Isopropyltoluene (p-Cymene)	8/1/2019	7/31/2020	Certified
EPA 8260	4-Methyl-2-pentanone (MIBK)	8/1/2019	7/31/2020	Certified
EPA 8260	Acetone	8/1/2019	7/31/2020	Certified
EPA 8260	Acetonitrile	8/1/2019	7/31/2020	Certified
EPA 8260	Acrolein (Propenal)	8/1/2019	7/31/2020	Certified
EPA 8260	Acrylonitrile	8/1/2019	7/31/2020	Certified
EPA 8260	Benzene	8/1/2019	7/31/2020	Certified
EPA 8260	Bromobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	Bromochloromethane	8/1/2019	7/31/2020	Certified
EPA 8260	Bromodichloromethane	8/1/2019	7/31/2020	Certified
EPA 8260	Bromoform	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Solid & Waste Materials)

Method	Analyte	Start Date	Date Expires	Status
EPA 8260	Carbon disulfide	8/1/2019	7/31/2020	Certified
EPA 8260	Carbon tetrachloride	8/1/2019	7/31/2020	Certified
EPA 8260	Chlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8260	Chlorodibromomethane (Dibromochloromethane)	8/1/2019	7/31/2020	Certified
EPA 8260	Chloroethane (Ethyl chloride)	8/1/2019	7/31/2020	Certified
EPA 8260	Chloroform	8/1/2019	7/31/2020	Certified
EPA 8260	cis-1,2-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 8260	cis-1,3-Dichloropropene (cis-1,3-Dichloropropylene)	8/1/2019	7/31/2020	Certified
EPA 8260	Dibromomethane (Methylene bromide)	8/1/2019	7/31/2020	Certified
EPA 8260	Dichlorodifluoromethane (Freon-12)	8/1/2019	7/31/2020	Certified
EPA 8260	Di-isopropylether (DIPE)	8/1/2019	7/31/2020	Certified
EPA 8260	Ethylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	Hexachlorobutadiene	8/1/2019	7/31/2020	Certified
EPA 8260	Isopropylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	m+p-xylene	8/1/2019	7/31/2020	Certified
EPA 8260	Methyl bromide (Bromomethane)	8/1/2019	7/31/2020	Certified
EPA 8260	Methyl chloride (Chloromethane)	8/1/2019	7/31/2020	Certified
EPA 8260	Methyl tert-butyl ether (MTBE)	8/1/2019	7/31/2020	Certified
EPA 8260	Methylene chloride (Dichloromethane)	8/1/2019	7/31/2020	Certified
EPA 8260	Naphthalene	8/1/2019	7/31/2020	Certified
EPA 8260	n-Butylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	n-Propylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	o-Xylene	8/1/2019	7/31/2020	Certified
EPA 8260	sec-Butylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	Styrene	8/1/2019	7/31/2020	Certified
EPA 8260	T-amylmethylether (TAME)	8/1/2019	7/31/2020	Certified
EPA 8260	tert-Butylbenzene	8/1/2019	7/31/2020	Certified
EPA 8260	Tetrachloroethylene (Perchloroethylene)	8/1/2019	7/31/2020	Certified
EPA 8260	Toluene	8/1/2019	7/31/2020	Certified
EPA 8260	trans-1,2-Dichloroethylene	8/1/2019	7/31/2020	Certified

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**State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation**

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Solid & Waste Materials)

Method	Analyte	Start Date	Date Expires	Status
EPA 8260	trans-1,3-Dichloropropene (trans-1,3-Dichloropropylene)	8/1/2019	7/31/2020	Certified
EPA 8260	Trichloroethene (Trichloroethylene)	8/1/2019	7/31/2020	Certified
EPA 8260	Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	8/1/2019	7/31/2020	Certified
EPA 8260	Vinyl acetate	8/1/2019	7/31/2020	Certified
EPA 8260	Vinyl chloride	8/1/2019	7/31/2020	Certified
EPA 8260	Xylene (total)	8/1/2019	7/31/2020	Certified
EPA 8270	1,2,4-Trichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	1,2-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	1,2-Diphenylhydrazine	8/1/2019	7/31/2020	Certified
EPA 8270	1,3-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	1,4-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	1-Methylnaphthalene	8/1/2019	7/31/2020	Certified
EPA 8270	2,4,5-Trichlorophenol	8/1/2019	7/31/2020	Certified
EPA 8270	2,4,6-Trichlorophenol	8/1/2019	7/31/2020	Certified
EPA 8270	2,4-Dichlorophenol	8/1/2019	7/31/2020	Certified
EPA 8270	2,4-Dimethylphenol	8/1/2019	7/31/2020	Certified
EPA 8270	2,4-Dinitrophenol	8/1/2019	7/31/2020	Certified
EPA 8270	2,4-Dinitrotoluene (2,4-DNT)	8/1/2019	7/31/2020	Certified
EPA 8270	2,6-Dinitrotoluene (2,6-DNT)	8/1/2019	7/31/2020	Certified
EPA 8270	2-Chloronaphthalene	8/1/2019	7/31/2020	Certified
EPA 8270	2-Chlorophenol	8/1/2019	7/31/2020	Certified
EPA 8270	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	8/1/2019	7/31/2020	Certified
EPA 8270	2-Methylnaphthalene	8/1/2019	7/31/2020	Certified
EPA 8270	2-Methylphenol (o-Cresol)	8/1/2019	7/31/2020	Certified
EPA 8270	2-Nitroaniline	8/1/2019	7/31/2020	Certified
EPA 8270	2-Nitrophenol	8/1/2019	7/31/2020	Certified
EPA 8270	3 & 4-Methylphenol (m & p-Cresol)	8/1/2019	7/31/2020	Certified
EPA 8270	3,3'-Dichlorobenzidine	8/1/2019	7/31/2020	Certified
EPA 8270	3-Nitroaniline	8/1/2019	7/31/2020	Certified
EPA 8270	4-Bromophenyl phenyl ether	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
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EPA Number: NV00925

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Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Solid & Waste Materials)

Method	Analyte	Start Date	Date Expires	Status
EPA 8270	4-Chloro-3-methylphenol	8/1/2019	7/31/2020	Certified
EPA 8270	4-Chloroaniline	8/1/2019	7/31/2020	Certified
EPA 8270	4-Chlorophenyl phenylether	8/1/2019	7/31/2020	Certified
EPA 8270	4-Nitroaniline	8/1/2019	7/31/2020	Certified
EPA 8270	4-Nitrophenol	8/1/2019	7/31/2020	Certified
EPA 8270	Acenaphthene	8/1/2019	7/31/2020	Certified
EPA 8270	Acenaphthylene	8/1/2019	7/31/2020	Certified
EPA 8270	Anthracene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzidine	8/1/2019	7/31/2020	Certified
EPA 8270	Benzo(a)anthracene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzo(a)pyrene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzo(b)fluoranthene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzo(g,h,i)perylene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzo(k)fluoranthene	8/1/2019	7/31/2020	Certified
EPA 8270	Benzoic acid	8/1/2019	7/31/2020	Certified
EPA 8270	Benzyl alcohol	8/1/2019	7/31/2020	Certified
EPA 8270	bis(2-Chloroethoxy)methane	8/1/2019	7/31/2020	Certified
EPA 8270	bis(2-Chloroethyl) ether	8/1/2019	7/31/2020	Certified
EPA 8270	bis(2-Chloroisopropyl) ether, (2,2'-Oxybis(1-chloropropane))	8/1/2019	7/31/2020	Certified
EPA 8270	bis(2-Ethylhexyl)phthalate,(DEHP, Di(2-ethylhexyl) phthalate)	8/1/2019	7/31/2020	Certified
EPA 8270	Butyl benzyl phthalate	8/1/2019	7/31/2020	Certified
EPA 8270	Carbazole	8/1/2019	7/31/2020	Certified
EPA 8270	Chrysene	8/1/2019	7/31/2020	Certified
EPA 8270	Dibenz(a,h) anthracene	8/1/2019	7/31/2020	Certified
EPA 8270	Dibenzofuran	8/1/2019	7/31/2020	Certified
EPA 8270	Diethyl phthalate	8/1/2019	7/31/2020	Certified
EPA 8270	Dimethyl phthalate	8/1/2019	7/31/2020	Certified
EPA 8270	Di-n-butyl phthalate	8/1/2019	7/31/2020	Certified
EPA 8270	Di-n-octyl phthalate	8/1/2019	7/31/2020	Certified
EPA 8270	Fluoranthene	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
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EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: RCRA (Solid & Waste Materials)

Method	Analyte	Start Date	Date Expires	Status
EPA 8270	Fluorene	8/1/2019	7/31/2020	Certified
EPA 8270	Hexachlorobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	Hexachlorobutadiene	8/1/2019	7/31/2020	Certified
EPA 8270	Hexachlorocyclopentadiene	8/1/2019	7/31/2020	Certified
EPA 8270	Hexachloroethane	8/1/2019	7/31/2020	Certified
EPA 8270	Indeno(1,2,3-cd) pyrene	8/1/2019	7/31/2020	Certified
EPA 8270	Isophorone	8/1/2019	7/31/2020	Certified
EPA 8270	Naphthalene	8/1/2019	7/31/2020	Certified
EPA 8270	Nitrobenzene	8/1/2019	7/31/2020	Certified
EPA 8270	n-Nitrosodimethylamine	8/1/2019	7/31/2020	Certified
EPA 8270	n-Nitrosodi-n-propylamine	8/1/2019	7/31/2020	Certified
EPA 8270	n-Nitrosodiphenylamine	8/1/2019	7/31/2020	Certified
EPA 8270	Pentachlorophenol	8/1/2019	7/31/2020	Certified
EPA 8270	Phenanthrene	8/1/2019	7/31/2020	Certified
EPA 8270	Phenol	8/1/2019	7/31/2020	Certified
EPA 8270	Pyrene	8/1/2019	7/31/2020	Certified
EPA 9010	Cyanide, Total	8/1/2019	7/31/2020	Certified
EPA 9014	Cyanide	8/1/2019	7/31/2020	Certified
EPA 9040C	Corrosivity (pH)	8/1/2019	7/31/2020	Certified
EPA 9045	Corrosivity (pH)	8/1/2019	7/31/2020	Certified
EPA 9056	Bromide	8/1/2019	7/31/2020	Certified
EPA 9056	Chloride	8/1/2019	7/31/2020	Certified
EPA 9056	Fluoride	8/1/2019	7/31/2020	Certified
EPA 9056	Nitrate as N	8/1/2019	7/31/2020	Certified
EPA 9056	Sulfate	8/1/2019	7/31/2020	Certified
EPA 9095B	Paint Filter Liquids Test	8/1/2019	7/31/2020	Certified
SM 2540 G	Residue - total, fixed and volatile	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: SDWA (Potable Water)

Method	Analyte	Start Date	Date Expires	Status
Discipline: Chemistry				
EPA 180.1	Turbidity	8/1/2019	7/31/2020	Certified
EPA 200.7	Aluminum	8/1/2019	7/31/2020	Certified
EPA 200.7	Barium	8/1/2019	7/31/2020	Certified
EPA 200.7	Beryllium	8/1/2019	7/31/2020	Certified
EPA 200.7	Boron	8/1/2019	7/31/2020	Certified
EPA 200.7	Cadmium	8/1/2019	7/31/2020	Certified
EPA 200.7	Calcium	8/1/2019	7/31/2020	Certified
EPA 200.7	Chromium	8/1/2019	7/31/2020	Certified
EPA 200.7	Copper	8/1/2019	7/31/2020	Certified
EPA 200.7	Iron	8/1/2019	7/31/2020	Certified
EPA 200.7	Magnesium	8/1/2019	7/31/2020	Certified
EPA 200.7	Manganese	8/1/2019	7/31/2020	Certified
EPA 200.7	Nickel	8/1/2019	7/31/2020	Certified
EPA 200.7	Potassium	8/1/2019	7/31/2020	Certified
EPA 200.7	Silica as SiO2	8/1/2019	7/31/2020	Certified
EPA 200.7	Silver	8/1/2019	7/31/2020	Certified
EPA 200.7	Sodium	8/1/2019	7/31/2020	Certified
EPA 200.7	Zinc	8/1/2019	7/31/2020	Certified
EPA 200.8	Antimony	8/1/2019	7/31/2020	Certified
EPA 200.8	Arsenic	8/1/2019	7/31/2020	Certified
EPA 200.8	Barium	8/1/2019	7/31/2020	Certified
EPA 200.8	Beryllium	8/1/2019	7/31/2020	Certified
EPA 200.8	Cadmium	8/1/2019	7/31/2020	Certified
EPA 200.8	Chromium	8/1/2019	7/31/2020	Certified
EPA 200.8	Copper	10/10/2019	7/31/2020	Certified
EPA 200.8	Lead	8/1/2019	7/31/2020	Certified
EPA 200.8	Manganese	8/1/2019	7/31/2020	Certified
EPA 200.8	Mercury	8/1/2019	7/31/2020	Certified
EPA 200.8	Molybdenum	8/1/2019	7/31/2020	Certified

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State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
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EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks
 475 East Greg St.
 Suite#119 Sparks, NV 89431-

Matrix: **SDWA (Potable Water)**

Method	Analyte	Start Date	Date Expires	Status
EPA 200.8	Nickel	8/1/2019	7/31/2020	Certified
EPA 200.8	Selenium	8/1/2019	7/31/2020	Certified
EPA 200.8	Silver	8/1/2019	7/31/2020	Certified
EPA 200.8	Thallium	8/1/2019	7/31/2020	Certified
EPA 200.8	Uranium (Nat.) Total Mass	8/1/2019	7/31/2020	Certified
EPA 245.1	Mercury	8/1/2019	7/31/2020	Certified
EPA 300.0	Bromide	8/1/2019	7/31/2020	Certified
EPA 300.0	Chloride	8/1/2019	7/31/2020	Certified
EPA 300.0	Fluoride	8/1/2019	7/31/2020	Certified
EPA 300.0	Nitrate as N	8/1/2019	7/31/2020	Certified
EPA 300.0	Nitrite as N	8/1/2019	7/31/2020	Certified
EPA 300.0	Sulfate	8/1/2019	7/31/2020	Certified
EPA 300.1	Bromate	8/1/2019	7/31/2020	Certified
EPA 300.1	Bromide	8/1/2019	7/31/2020	Certified
EPA 300.1	Chlorate	8/1/2019	7/31/2020	Certified
EPA 300.1	Chlorite	8/1/2019	7/31/2020	Certified
EPA 353.2	Nitrate as N	8/1/2019	7/31/2020	Certified
EPA 353.2	Nitrate-nitrite	8/1/2019	7/31/2020	Certified
EPA 524.2	1,1,1-Trichloroethane	8/1/2019	7/31/2020	Certified
EPA 524.2	1,1,2-Trichloroethane	8/1/2019	7/31/2020	Certified
EPA 524.2	1,1-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 524.2	1,2,4-Trichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 524.2	1,2-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 524.2	1,2-Dichloroethane	8/1/2019	7/31/2020	Certified
EPA 524.2	1,2-Dichloropropane	8/1/2019	7/31/2020	Certified
EPA 524.2	1,4-Dichlorobenzene	8/1/2019	7/31/2020	Certified
EPA 524.2	Benzene	8/1/2019	7/31/2020	Certified
EPA 524.2	Bromodichloromethane	8/1/2019	7/31/2020	Certified
EPA 524.2	Bromoform	8/1/2019	7/31/2020	Certified
EPA 524.2	Carbon tetrachloride	8/1/2019	7/31/2020	Certified

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Division of Environmental Protection
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Expiration Date: 7/31/2020

Western Environmental Testing - Sparks

475 East Greg St.

Suite#119 Sparks, NV 89431-

Matrix: **SDWA (Potable Water)**

Method	Analyte	Start Date	Date Expires	Status
EPA 524.2	Chlorobenzene	8/1/2019	7/31/2020	Certified
EPA 524.2	Chlorodibromomethane (Dibromochloromethane)	8/1/2019	7/31/2020	Certified
EPA 524.2	Chloroform	8/1/2019	7/31/2020	Certified
EPA 524.2	cis-1,2-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 524.2	Ethylbenzene	8/1/2019	7/31/2020	Certified
EPA 524.2	Methylene chloride (Dichloromethane)	8/1/2019	7/31/2020	Certified
EPA 524.2	Styrene	8/1/2019	7/31/2020	Certified
EPA 524.2	Tetrachloroethylene (Perchloroethylene)	8/1/2019	7/31/2020	Certified
EPA 524.2	Toluene	8/1/2019	7/31/2020	Certified
EPA 524.2	Total trihalomethanes	8/1/2019	7/31/2020	Certified
EPA 524.2	trans-1,2-Dichloroethylene	8/1/2019	7/31/2020	Certified
EPA 524.2	Trichloroethene (Trichloroethylene)	8/1/2019	7/31/2020	Certified
EPA 524.2	Vinyl chloride	8/1/2019	7/31/2020	Certified
EPA 524.2	Xylene (total)	8/1/2019	7/31/2020	Certified
EPA 552.3	Bromoacetic acid (Monobromoacetic acid, MBAA)	8/1/2019	7/31/2020	Certified
EPA 552.3	Bromochloroacetic acid (BCAA)	8/1/2019	7/31/2020	Certified
EPA 552.3	Chloroacetic acid (Monochloroacetic acid, MCAA)	8/1/2019	7/31/2020	Certified
EPA 552.3	Dibromoacetic acid (DBAA)	8/1/2019	7/31/2020	Certified
EPA 552.3	Dichloroacetic acid (DCAA)	8/1/2019	7/31/2020	Certified
EPA 552.3	Haloacetic acids (HAA5)	8/1/2019	7/31/2020	Certified
EPA 552.3	Trichloroacetic acid (TCAA)	8/1/2019	7/31/2020	Certified
HACH 8167	Total Chlorine (residual)	8/1/2019	7/31/2020	Certified
SM 2120 B	Color	8/1/2019	7/31/2020	Certified
SM 2150 B	Odor	8/1/2019	7/31/2020	Certified
SM 2320 B	Alkalinity as CaCO ₃	8/1/2019	7/31/2020	Certified
SM 2330 B	Corrosivity (langlier index)	8/1/2019	7/31/2020	Certified
SM 2340 B	Calcium hardness as CaCO ₃	8/1/2019	7/31/2020	Certified
SM 2340 B	Hardness by calculation	8/1/2019	7/31/2020	Certified
SM 2510 B	Conductivity	8/1/2019	7/31/2020	Certified
SM 2540 C	Residue-filterable (TDS)	8/1/2019	7/31/2020	Certified

Disclaimer: A laboratory that is certified or approved has established that they have the ability to implement a quality control program in accordance with the appropriate Federal or State regulations or statutes. It is the certified laboratory's responsibility to provide their client the most current certified parameter list. Contact LCP to verify certification status.

State of Nevada Department of Conservation and Natural Resources
Division of Environmental Protection
Laboratory Scope of Accreditation

EPA Number: NV00925

Attachment to Certificate Number: NV009252020-3

Expiration Date: 7/31/2020

Western Environmental Testing - Sparks
475 East Greg St.
Suite#119 Sparks, NV 89431-

Matrix: **SDWA (Potable Water)**

Method	Analyte	Start Date	Date Expires	Status
SM 2540 D	Residue-nonfilterable (TSS)	8/1/2019	7/31/2020	Certified
SM 2550 B	Temperature, deg. C	8/1/2019	7/31/2020	Certified
SM 4500-CN ⁻ C,E	Cyanide	8/1/2019	7/31/2020	Certified
SM 4500-H+ B	pH	8/1/2019	7/31/2020	Certified
SM 4500-P E	Orthophosphate as P	8/1/2019	7/31/2020	Certified
SM 5310 C	Dissolved Organic Carbon (DOC)	8/1/2019	7/31/2020	Certified
SM 5310 C	Total Organic Carbon	8/1/2019	7/31/2020	Certified
SM 5540 C	Surfactants - MBAS	8/1/2019	7/31/2020	Certified
Discipline: Microbiology				
IDEXX Colilert®	Escherichia coli	8/1/2019	7/31/2020	Certified
IDEXX Colilert®	Total coliforms	8/1/2019	7/31/2020	Certified
IDEXX Quanti-Tray® under SWTR	E. coli enumeration	8/1/2019	7/31/2020	Certified
IDEXX Quanti-Tray® with Colilert® under SWTR	Total Coliform Enumeration	8/1/2019	7/31/2020	Certified
IDEXX SimPlate® under SWTR	Heterotrophic plate count	8/1/2019	7/31/2020	Certified

Disclaimer: A laboratory that is certified or approved has established that they have the ability to implement a quality control program in accordance with the appropriate Federal or State regulations or statutes. It is the certified laboratory's responsibility to provide their client the most current certified parameter list. Contact LCP to verify certification status.

Exhibit B

Invitation to Bid

Please see attached page(s).

Mayor
John J. Lee

City Manager
Ryann Juden

Council Members
Scott Black
Pamela A. Goynes-Brown
Isaac E. Barron
Richard J. Cherchio



Finance Department
Purchasing-Risk Management Department
2250 Las Vegas Boulevard, North · Suite #710 · North Las Vegas, Nevada 89030
Telephone: (702) 633-2438 · Fax: (702) 669-3328 · TDD: (800) 326-6868
www.cityofnorthlasvegas.com


March 23, 2020

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing**

Bids will be received electronically only through the Nevada Gov eMarketplace (NGEM) System at www.ngemnv.com until **April 27, 2020 at 10:00 A.M.** (the "Bid Due Date"), and the bids will be publicly opened and read shortly thereafter in Conference Room 703 inside City Hall at the above listed address.

A Pre-Bid Meeting will be not be held at City Hall for this Bid. All questions or concerns must be submitted electronically in the NGEM System or via e-mail to Marie Leake, Buyer, at leakem@cityofnorthlasvegas.com. The cut-off time for all questions is **April 06, 2020, at 12:00 p.m.** If any questions are received, an addendum will be issued to answer those questions and the addendum will be posted in the NGEM System and will be made available at the City of North Las Vegas Purchasing Web Page at <http://www.cityofnorthlasvegas.com/purchasingbidadvertisements/index.php>.

Bid documents may be accessed at www.ngemnv.com or on the City of North Las Vegas Purchasing Web Page (listed above). The City reserves the right to reject any and all Bids, waive any informality or technicality, or to otherwise accept Bids deemed in the best interest of the City.


Catherine A. Raynor, MMC
City Clerk

Published in the Las Vegas Review Journal
(March 23, 2020)

**CITY OF NORTH LAS VEGAS INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing**

1. PUBLIC RECORDS:

The Bid documents and all Bids submitted in response thereto are public records. You are cautioned not to put any material into the Bid that is proprietary in nature. The City is a public agency as defined by state law. As such, it is subject to the Nevada Public Records Law (Chapter 239 of the Nevada Revised Statutes). The City's Records are public records, which are subject to inspection and copying by any person, unless declared by law to be confidential.

2. PERFORMANCE OF WORK:

The selected Respondent shall perform all work as may be necessary to complete the Contract in a satisfactory and acceptable manner, and unless otherwise provided, shall furnish all transportation, materials, equipment, labor and incidentals necessary to complete the project.

3. FORM OF CONTRACT:

Execution of the Contract by all named parties will authorize delivery of services obtained under this Invitation to Bid.

4. ELECTRONIC BID THROUGH NGEM SYSTEM:

Bids must be submitted online through the Nevada Government eMarketplace (NGEM). The NGEM System is an electronic bidding system used by a consortium of local government entities in Nevada for supplier registration and the submission of electronic bids and proposals. The NGEM System is available at www.ngemnvt.com. There is no cost for any Respondent to use the NGEM System, however, all Respondents must register prior to gaining access to see the details of any solicitation and to submit a bid or proposal online. All Bids must be submitted on the NGEM System no later than the Bid Due Date and time. Per the Terms of Use of the NGEM System, Bids may not be submitted after the Bid Due Date, and the server clock will govern.

5. EXPLANATION TO RESPONDENT:

Any explanations desired by Respondent regarding the meaning or interpretation of specifications must be requested in writing and with sufficient time allowed for a reply to reach Respondent before submission of their Bid. Oral explanations given before the award of the contract will not be binding. Any written interpretation made will be furnished to all Respondents and its receipt by the Respondent will be acknowledged. Interpretation of the meaning of the plans, specifications, or other pre-Bid documents will not be binding if presented to any Respondent orally. Every request for such interpretation should be in writing addressed to Marie Leake, Buyer at leakem@cityofnorthlasvegas.com or ATTN: Marie Leake, Buyer, City of North Las Vegas, 2250 Las Vegas Blvd. North, Suite 708, North Las Vegas, NV 89030. Any and all such interpretations and any supplemental instructions deemed necessary will be in the form of a written addendum to the specifications which, if issued, will be mailed or e-mailed to all known prospective Respondents. Failure of any Respondent to receive any such addendum or interpretation shall not relieve such Respondent from any obligation under these Bid documents as submitted. All addenda issued shall become part of the Bid documents.

6. METHOD OF EVALUATION AND AWARD OPTIONS:

The evaluation of this Bid will be conducted by City personnel. The City will award this Bid to the Respondent(s) that submits the lowest responsive and responsible Bid deemed to be in the City's best interest. The City reserves the right to reject all Bids. Pursuant to NRS 332.065(3), the City shall not enter into a contract with a Respondent to this Bid unless the contract includes the written certification that the company is not currently engaged in, and agrees for the duration of the contract not to engage in, a boycott of Israel.

7. ASSIGNMENT OF CONTRACTUAL RIGHTS:

It is agreed that the Contract must not be assigned, transferred, conveyed, or otherwise disposed of by either party in any manner, unless approved in writing by the other party or unless otherwise allowed pursuant to NRS 332.095(2). The Respondent will be an independent contractor for all purposes and no agency, either expressed or implied, exists.

8. CONDITIONS OF BID SUBMITTAL:

- (a) The Bid must be signed by a duly authorized official of the proposing firm or company submitting the Bid.
- (b) No Bid will be accepted from any person, firm, or corporation that is in arrears for any obligation to the City, or that otherwise may be deemed irresponsible or unresponsive by City staff or City Council.
- (c) No Bid will be accepted from any person, firm, or corporation if that person, firm, or corporation or any of its principals are debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from transactions with any federal or state department or agency. By signing and submitting a Bid to the City, the Respondent certifies that no current suspension or debarment exists.
- (d) All Bids shall be prepared in a comprehensive manner as to content, but no necessity exists for expensive binders or promotional material.

9. BID PROTESTS:

The City will publish the Recommendation of Award Notification on the City's website (www.cityofnorthlasvegas.com). Any Respondent may file a notice of protest regarding the proposed award of the Contract by the North Las Vegas City Council. Respondents will have five (5) business days from the date the Recommendation of Award is published to submit the written protest to the City Clerk. The written protest must include a statement setting forth, with specificity, the reasons the person filing the protest believes that applicable provisions of the Bid documents or law were violated. At the time a notice of protest is filed, the person filing such notice of protest shall post a bond with a good and solvent surety authorized to do business in the State of Nevada, and supply it to the City Clerk. The bond posted must be in an amount equal to the lesser of: (i) twenty-five percent (25%) of the total value of the Bid submitted by the person filing the notice of protest; or (ii) two hundred fifty thousand dollars (\$250,000).

A notice of protest filed in accordance with this section shall operate as a stay of action in relation to the award of the Contract until a determination is made by the North Las Vegas City Council. A person who makes an unsuccessful Bid may not seek any type of judicial intervention until after the North Las Vegas City Council has made a determination on the notice of protest and awarded the contract. Neither the City nor any authorized representative of the City is liable for any costs, expenses, attorney's fees, loss of income, or other damages sustained by a person who submits a Bid, whether or not the person files a notice of protest pursuant to this section.

If a protest is upheld, the bond posted and submitted with the notice of protest will be returned to the person who posted the bond. If the protest is rejected, a claim may be made against the bond by the City in an amount equal to the expenses incurred by the City because of the unsuccessful protest.

10. LICENSES:

All Respondents must provide a copy of all appropriate licenses in accordance with the laws of the State of Nevada, prior to submission of Bids for this project. Upon award, the successful Respondent will be required to obtain a North Las Vegas Business License.

11. PUBLIC OPENING:

Bids received will be opened and the name of the Respondent's company will be read publicly at the time and place indicated in the Bid documents. Respondents, their authorized agents, and the public are invited to be present. No responsibility will attach to any City official or employee for the pre-opening of, or the failure to open, a Bid not properly addressed or identified.

12. TERM OF THE CONTRACT:

The Contract shall have a term of two (2) years with two (2), one (1) year extensions or as otherwise stated in the Contract.

13. INSURANCE:

Prior to the commencement of the Contract, each successful Respondent must provide properly executed Certificates of Insurance to the City, which shall clearly evidence all insurance required by the City, including a policy or certificate of comprehensive general liability insurance in which the City, its public officials, officers, employees, agents, and volunteers shall be the named insured or be named as an additional insured. In compliance with this provision, the Respondent may file with the City a satisfactory policy providing a minimum \$1,000,000 "blanket coverage" policy or certificate of insurance. Such insurance will be primary and any insurance or self-insurance maintained by the City will apply in excess of, and not contribute with, the insurance required. Required insurance shall not be canceled, allowed to expire, or be materially reduced in coverage until after 30 days' written notice has been given to and approved in writing by, the City Attorney or the City Risk Manager.

The Respondent shall secure, maintain in full force and effect, and bear the cost of the following insurances throughout the duration of the contract:

COMMERCIAL GENERAL LIABILITY

Each Occurrence	\$1,000,000 each occurrence/accident
Products/Completed Operations	\$2,000,000 aggregate
Property Damage	\$1,000,000
Personal/Advertising Injury	\$1,000,000
COMBINED SINGLE LIMIT OF	\$1,000,000
Aggregate of	\$2,000,000

AUTOMOBILE LIABILITY

Bodily Injury - - - - -	\$1,000,000 each accident
Property Damage - - - -	\$1,000,000 each accident

Coverage must include all owned, leased, hired, non-owned and employee non-owned vehicles, where applicable, Personal Injury Protection.

WORKERS' COMPENSATION

Nevada Statutory Requirements

If no employees, then Exhibit D- Affidavit of Rejection of Coverage for Workers' Compensation must be completed and submitted with response to this Bid. The City, or any of its officers or employees, will not be responsible for any claims or suits in law or equity occasioned by the failure of the successful Respondent to comply with the provisions of this paragraph.

Such insurance shall include the specific coverage set out herein and be written for NOT LESS THAN the limits of liability and coverage provided in the "Insurance Service Office", or required by law and other governing agencies, whichever is greater. The cost of this insurance shall be deemed included in the Bid prices and no additional compensation will be made.

In addition, the Respondent shall furnish evidence of a commitment by the insurance company to notify the City by registered mail of the expiration or cancellation of the insurance policies required not less than 30 days before the expiration or cancellation is effective.

14. INDEMNITY:

The successful Respondent agrees to defend, indemnify, and hold the City, its officers, agents, and employees, harmless from any and all liabilities, causes of action, claims, damages, losses, expenses, proceedings, actions, judgements, reasonable attorneys' fees, and court costs which the City suffers or its officers, agents, or employees suffer, as a result of, or arising out of, the negligent or intentional acts or omissions of Respondent, its subcontractors, agents, and employees, in the fulfillment or performance of the work described herein until such time as the applicable statutes of limitation expire.

15. PROVISIONS PROVIDED BY LAW:

Each and every provision and clause required by law to be inserted in the Contract 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 Contract forthwith shall be physically amended to make such insertion or correction. The Respondent's attention is directed to the fact that all applicable city, county, state, and federal laws, and the rules and regulations of all authorities having jurisdiction over the project shall apply to the Contract throughout its duration and such laws, rules, and regulations will be deemed to be included in the Contract the same as though they had been written out in full herein.

16. ADDENDA INTERPRETATIONS:

If it becomes necessary to revise any part of this Bid, a written or electronic addendum will be provided publicly. The City is not bound by any oral clarifications changing the scope of work for this project.

17. CANCELLATION OF CONTRACT:

The City reserves the right to cancel the award or execution of any contract at any time before the Contract has been approved by the City Council without any liability or claims thereof against the City.

18. TERMINATION FOR CONVENIENCE:

The City shall have the right at any time to terminate further performance of the Contract, in whole or in part, for any reason whatsoever (including no reason). Such termination shall be effected by written notice from the City to the Respondent, specifying the extent and effective date of the termination. On the effective date of the termination, the successful Respondent shall terminate all work and take all reasonable actions to mitigate expenses. The successful Respondent shall submit a written request for incurred costs for services performed through the date of termination within 30 days of the date of termination. All requests for reimbursement of incurred costs shall include substantiating documentation requested by the City. In the event of such termination, the City agrees to pay the successful Respondent, thirty days after receipt of a correct, adequately documented written request. The City's sole liability under this Paragraph is for payment of the costs for the services requested by the City and actually performed by the successful Respondent.

19. **TAXES:**
The City is exempt from state, retail, and federal excise taxes. The Bid price must be net, exclusive of taxes.
20. **EXCEPTIONS:**
Each Respondent must list on a separate document any exceptions to specifications and attach it to their Bid. Exceptions, deviations, or contingencies requested in Respondent's bid response, while possibly necessary in the view of the Respondent, may result in lower scoring or disqualification of a Bid response.
21. **FISCAL FUNDING OUT:**
In the event the City fails to appropriate funds for the performance of the Contract, the Contract will terminate once the existing funds have been exhausted.
22. **LIMITATION OF FUNDING:**
The City reserves the right to reduce estimated or actual quantities, in whatever amount necessary, without prejudice or liability to the City, if funding is not available or if legal restrictions are placed upon the expenditure of monies for the services required under the Contract.
23. **ESCALATION:**
Prices may not be increased during the first two (2) year term (the "Initial Term"). The prices submitted in your Bid must remain firm throughout the Initial Term of the contract. Any intended escalation for the possible extensions must be included in the Respondent's Bid. If escalations are not included for the possible extensions, the price for the Initial Term will apply for each possible extension unless otherwise permitted by the City.
24. **AUDIT OF RECORDS:**
- (a) The successful Respondent agrees to maintain financial records pertaining to all matters relative to this Bid in accordance with standard accounting principles and procedures and to retain all records and supporting documentation applicable to this Bid for a period of three (3) years after completion of this Bid and any subsequent extensions thereof. All records subject to audit findings shall be retained for three (3) years after such findings have been resolved. In the event the successful Respondent goes out of existence, the successful Respondent shall turn over to the City all of its records relating to this Bid. The successful Respondent agrees to give the City access to records immediately upon request.
 - (b) The successful Respondent agrees to permit the City or the City's designated representative(s) to inspect and audit its records and books relative to this Bid at any time during normal business hours and under reasonable circumstances and to copy and/or transcribe any information concerning successful Respondent's operation hereunder, at the City's discretion. The successful Respondent further understands and agrees that said inspection and audit would be exercised upon written notice. If the successful Respondent or its records and books are not located within Clark County, Nevada, and in the event of an inspection and audit, successful Respondent agrees to deliver the records and books or have the records and books delivered to the City or the City's designated representative(s) at an address within the City as designated by the City. If the City or the City's designated representative(s) finds that the records and books delivered by the successful Respondent are incomplete, the successful Respondent agrees to pay the City's or the City's representative(s)' costs to travel (including travel, lodging, meals, and other related expenses) to the successful Respondent's offices to inspect, audit, retrieve, copy and/or transcribe the complete records and books. The successful Respondent further agrees to

permit the City or the City's designated representatives to inspect and audit, as deemed necessary, all records of this project relating to finances, as well as other records including performance records that may be required by relevant directives of funding sources of the City.

- (c) If, at any time during the term of this Bid, or at any time after the expiration or termination of the Bid, the City or the City's designated representative(s) finds the dollar liability is less than payments made by the City to the successful Respondent, the successful Respondent agrees that the difference shall be either: (i) repaid immediately by the successful Respondent to the City or (ii) at the City's option, credited against any future billings due the successful respondent.
- (d) The successful Respondent must assert its right to an adjustment under this clause within 30 days from the date of receipt of the written order; however, if the City decides that the facts justify, the City may receive and act upon an invoice submitted before final payment of the Bid.
- (e) The successful Respondent shall provide current, complete, and accurate documentation to the City in support of any equitable adjustment. Failure to provide adequate documentation, within a reasonable time after a request from the City will be deemed a waiver of the successful respondent's right to dispute.

25. INDEPENDENT CONTRACTOR:

In the performance of services under the Contract, the successful Respondent and any other persons employed by it shall be deemed to be an independent contractor and not an agent or employee of the City. The City shall hold the successful respondent company ("Company") as the sole responsible party for the performance of the Contract. The Respondent shall maintain complete control over its employees. Nothing contained in this Invitation to Bid, the Contract, or awarded by the City shall create a partnership, joint venture, or agency. Neither party shall have the right to obligate or bind the other party in any manner to any third party. The Contract may not be subcontracted.

26. COMPANY PERSONNEL:

The successful Respondent is solely responsible for the supervision and control of its staff performing work under the Contract; however, the City reserves the right to request removal from its premises the successful Respondent's "on site" staff personnel for just cause, and the successful Respondent shall take reasonable action to comply with the request. Upon award of the Contract, a listing of all personnel authorized to participate in the awarded program shall be submitted and included as part of the executed agreement.

27. KEY PERSONNEL:

The City designates Marie Leake, Buyer, as the responsible party for managing this Bid Advertisement. He can be reached at 702-633-2440 or at Marie Leake, Buyer and is available Monday through Thursday from 6am to 4pm.

The City also designates Daniel Ybarra, Operations Supervisor, as the project manager for this service. He can be contacted at 702-633-1124 or at ybarrad@cityofnorthlasvegas.com and is available Monday through Thursday from 8am to 4pm.

The cutoff date for any questions regarding this is **April 06, 2020, at 12:00 p.m. Pacific Standard Time.** Any questions submitted beyond this cut off time will not be answered.

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing**

DEFINITIONS

Bid - document submitted by Respondent in NGEM to the City of North Las Vegas offering the product or service that meets the requested specifications. Respondent will fill out the bid document with their price offering and complete all required documents

Certificates of Insurance – a document issued by an insurance company/broker that is used to verify the existence of insurance coverage under specific conditions granted to listed individuals. This document should list the effective date of the policy, the type of insurance coverage provided and the type and dollar amount of applicable liability and shall list the City of North Las Vegas, its public officials, officers, employees, agents, and volunteers, as an additional insured.

City - the City of North Las Vegas.

City Attorney – the lawyer employed by the City, who is legally appointed as legal counsel to transact business on the City's behalf.

City Clerk - a public officer charged with recording the official proceedings and vital statistics of the City.

City Council - the legislative body that governs the city.

City Manager - a person not publicly elected but appointed by the City Council to manage the City.

City Records - information, minutes, files, accounts or other records which the City is required to maintain, and which must be accessible to scrutiny by the public.

City Staff - any person currently employed by the City.

Contract – the written agreement between the City and the Respondent selected by the City as having the best Proposal, as approved by City Council and fully executed by the parties.

Invitation to Bid - the official legal published advertisement of the bid requirements.

Key Personnel - defined City employees listed in Paragraph 27.

Pre-Bid Meeting – a meeting that Respondent may attend to have the project requirements defined. This allows the Respondent to ask questions necessary to enable Respondent to provide a bid.

Nevada Public Records Law – as defined in NRS Chapter 239.

Purchasing Department – Department that reviews the bids for compliance to specifications, reviews the pricing, and awards the bid to the most responsive and responsible Respondent.

Recommendation of Award Notification – notification to the general public the City has recommended a Respondent who has been selected based on having the best bid/proposal by meeting the Criteria listed in the bid/Proposal documents. This Recommendation of Award goes to the City Council and upon City Council approval will be selected to fulfill the requirements as outlined in the bid.

Representative – person who represents a company and compiles questions to enable the company to submit a bid that accurately identifies the City's requirements.

Respondent – Vendor who offers the requested product or service to the City on the official bid document.

Subcontractor – a person who, or business that, contracts to provide some service or material necessary for the performance of another's contract.

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing**

SCOPE OF WORK

PROJECT BACKGROUND AND DESCRIPTION STATEMENT

The City of North Las Vegas conducts its Water Reclamation Facility and Industrial Pretreatment and drinking water testing with one vendor.

The testing for the WRF consist of daily, weekly and quaterly testing of influent and effluent samples with the Acute Toxicity Testing on a monthly basis and Chronic Testing on a quarterly basis.

All laboratory test reports shall be submitted in a hard copy and spreadsheet format both of which may be emailed to the WRF and periodic water testing to Utilities Dept. A list of all test required are listed below. The City may add or remove testing as necessary.

1. Scope of Work:

The City of North Las Vegas us requesting laboratory services for the following sections:

Water Reclamation Facility Discharge

- Daily Analysis

Daily Testing Influent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Ammonia, as N - CWA	SM4500NH3 D	Wastewater	
Kjeldahl Nitrogen, Total (TKN)	SM4500NORG B	Wastewater	

Daily Testing Effluent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Ortho-Phosphate as P	SM4500P E	Wastewater	
Ammonia, as N - CWA	SM4500NH3 D	Wastewater	
Fecal Coliform	SM9222D	Wastewater	

- Weekly Analysis

Weekly Testing Influent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	

Total Suspended Solids - CWA	SM2540D	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Ammonia, as N - CWA	SM4500NH3 D	Wastewater	
Kjeldahl Nitrogen, Total (TKN)	SM4500NORG B	Wastewater	
Ortho-Phosphate as P	SM4500P E	Wastewater	
Total Dissolved Solids- CWA	SM2540C	Wastewater	
Anions-CWA (Cl,F,NO2,NO3,SO4)	EPA 300.0	Wastewater	Fluoride

Weekly Testing Effluent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Ortho-Phosphate as P	SM4500P E	Wastewater	
Ammonia, as N - CWA	SM4500NH3 D	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Kjeldahl Nitrogen, Total (TKN)	SM4500NORG B	Wastewater	
Total Dissolved Solids- CWA	SM2540C	Wastewater	
Nitrogen, Inorganic-Calc. Only	calc.	Wastewater	
Anions-CWA (Cl,F,NO2,NO3,SO4)	EPA 300.0	Wastewater	Cl,F, N02, N03, 504
Fecal Coliform	SM9222D	Wastewater	

Weekly Testing Influent CNLV WRF Reuse Water			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Groundwater	
Total Suspended Solids - CWA	SM2540D	Groundwater	
Total Nitrogen	Calc.	Groundwater	

- Monthly Analysis

Monthly Testing Effluent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
Acute Toxicity Testing	EPA2021.0	Wastewater	Bioassay - 48 Hour
Acute Toxicity Testing	EPA2021.0	Wastewater	Bioassay - 96 Hour

- Quarterly Analysis

Quarterly Testing Influent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	
Total Dissolved Solids- CWA	SM2540C	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Anions-CWA (Cl,F,NO2,NO3,SO4)	EPA 300.0	Wastewater	Fluoride
Ammonia, as N - CWA	SM4500NH3 D	Wastewater	

Kjeldahl Nitrogen, Total (TKN)	SM4500NORG B	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Fecal Coliform	SM9222D	Wastewater	
Metals, 200.7 - CWA	EPA 200.7	Wastewater	B, Fe
Metals-SDWA 200.8	EPA 200.8	Wastewater	Sb, As, Be, Cd, Cr, Cu, Pb, Mo, Ni Se, Ag, Tl, U, Zn
Total Recoverable Mercury	EPA245.2	Wastewater	
Semi VOC (SVOC)	EPA625	Wastewater	See attachment A
Organochlorine Pesticides & PCB	EPA608	Wastewater	See attachment A
2,3,7,8-Tetrachlorodibenzo-p-dioxin	EPA1613B	Wastewater	
Total Cyanide	SM4500	Wastewater	
Volatile Organic Compounds (VOC)	EPA624	Wastewater	See attachment A
Total Recoverable Boron	EPA 200.2	Wastewater	
Total Recoverable Iron	EPA 200.2	Wastewater	
Total Recoverable Manganese	EPA 200.2	Wastewater	
Sulfide, total (as S)	SM 4500S2	Wastewater	

Quarterly Testing Effluent CNLV WRF			
Requested Parameters	Method	Matrix	Remarks
BOD - CWA	SM5210B	Wastewater	
Total Dissolved Solids- CWA	SM2540C	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Ortho-Phosphate as P	SM4500P E	Wastewater	
Anions-CWA (Cl, F, NO ₂ , NO ₃ , SO ₄)	EPA 300.0	Wastewater	Cl, F, NO ₂ , NO ₃ , SO ₄
Ammonia, as N - CWA	SM4500NH ₃ D	Wastewater	
Kjeldahl Nitrogen, Total (TKN)	SM4500NORG B	Wastewater	
Phosphorus as P, Total	SM4500P E	Wastewater	
Fecal Coliform	SM9222D	Wastewater	
Nitrogen, Inorganic-Cal. Only	calc.	Wastewater	
Metals, 200.7 - CWA	EPA 200.7	Wastewater	B, Fe
Metals-SDWA 200.8	EPA 200.8	Wastewater	Sb, As, Be, Cd, Cr, Cu, Pb, Mo, Ni Se, Ag, Tl, U, Zn
Total Recoverable Mercury	EPA245.2	Wastewater	
Semi VOC (SVOC)	EPA625	Wastewater	See attachment A
Organochlorine Pesticides & PCB	EPA608	Wastewater	See attachment A
2,3,7,8-Tetrachlorodibenzo-p-dioxin	EPA1613B	Wastewater	
Total Cyanide	SM4500	Wastewater	
Phenolics, Total CWA	EPA420.1		
Volatile Organic Compounds (VOC)	EPA624	Wastewater	See attachment A
Asbestos	EPA100.0	Waterwater	
Chronic Toxicity Testing - 7		Waterwater	Ceriodaphnia dubis,

Day			Pimephales promelas - If necessary
Total Recoverable Boron	EPA 200.2	Waterwater	
Total Recoverable Iron	EPA 200.2	Waterwater	
Total Recoverable Manganese	EPA 200.2	Waterwater	
Sulfide, total (as S)	SM 450052	Waterwater	
Analytical Test-Not Otherwise Spec. WRF			**To Be Requested as needed**

Quarterly- Centrifuge Cake WRF			
Requested Parameters	Method	Matrix	Remarks
TCLP 8-11 including Cu, Mo, Ni, Zn		Aqueous	Inc. Cu, Mo, Ni, Zn
Mercury - CWA	EPA 245.2		
Metals, 200.7 - CWA	SM 200.7		
Preparation for Metals	EPA 200.7		
Volitile Organic Compounds, EPA 8260	EPA 8260B		
TPH-FULL-SOLID		Solid	
TPH - Diesel Range Organics	EPA 8015B		
TPH - Gasoline Range Organics	EPA 8015B		
Total Solids - CWA	SM 2540B	Aqueous	
PH - Food, Soils, Solids	SM 4500+ B	Other	
Anions-CWA (Cl,F,NO2,NO3,SO4)	EPA 300.0	Aqueous	Nitrate, Nitrite
Kjeldahl Nitrogen, Total (TKN)	SM 4500NORG	Aqueous	
Ammonia as N - CWA	SM 4500NH3 D	Aqueous	
Nitrogen, Total - Calc. Ony	Calc.	Aqueous	
Nitrogen, Organic - Calc. Ony	Calc.	Aqueous	
TCLP SVOC, EPA 8270 - Soil		Soil	Incl. Total Cresol

Quarterly- Fine Screen WRF			
Requested Parameters	Method	Matrix	Remarks
TCLP 8-11 including Cu, Mo, Ni, Zn		Aqueous	Inc. Cu, Mo, Ni, Zn
Mercury - CWA	EPA 245.2		
Metals, 200.7 - CWA	SM 200.7		
Preparation for Metals	EPA 200.7		
Volitile Organic Compounds, EPA 8260			
TPH-FULL-SOLID		Solid	
TPH - Diesel Range Organics	EPA 8015B		
TPH - Gasoline Range Organics	EPA 8015B		
Total Solids - CWA	SM 2540B	Aqueous	
PH - Food, Soils, Solids	SM 4500+ B	Other	
Cyanide, Total - CWA	SM 4500CN C-	Aqueous	Incl. Free Cyanide

Phenolics, Total	EPA420.1	Aqueous	
Flashpoint - CWA	EPA 1010A	Aqueous	
TCLP SVOC, EPA 8270 - Soil		Soil	Incl. Total Cresol
Pesticides, Organo Chlorine- EPA 8081	EPA 8081	Aqueous	
PCB's by EPA 8082	EPA 8082		

Quarterly- Coarse Screen WRF			
Requested Parameters	Method	Matrix	Remarks
TCLP 8-11 including Cu, Mo, Ni, Zn		Aqueous	Inc. Cu, Mo, Ni, Zn
Mercury - CWA	EPA 245.2		
Metals, 200.7 - CWA	SM 200.7		
Preparation for Metals	EPA 200.7		
Volitile Organic Compounds, EPA 8260	EPA 8260B		
TPH-FULL-SOLID		Solid	
TPH - Diesel Range Organics	EPA 8015B		
TPH - Gasoline Range Organics	EPA 8015B		
Total Solids - CWA	SM 2540B	Aqueous	
PH - Food, Soils, Solids	SM 4500+ B	Other	
Cyanide, Total - CWA	SM 4500CN C-	Aqueous	Incl. Free Cyanide
Phenolics, Total	EPA420.1	Aqueous	
Flashpoint - CWA	EPA 1010A	Aqueous	
TCLP SVOC, EPA 8270 - Soil		Soil	Incl. Total Cresol
Pesticides, Organo Chlorine- EPA 8081	EPA 8081	Aqueous	
PCB's by EPA 8082	EPA 8082		

- Annual Analysis

Annual Testing CNLV Pre-Treatment			
Requested Parameters	Method	Matrix	Remarks
BOD5	SM5210B	Wastewater	
Total Suspended Solids - CWA	SM2540D	Wastewater	
Total Nitrogen	SM4500	Wastewater	
Total Dissolved Solids	SM2540C	Wastewater	
Total Phosphorus	EPA365.1	Wastewater	
Semi VOC (SVOC)	EPA625	Wastewater	
Total Cyanide	SM4500	Wastewater	
Total Recoverable Selenium	EPA200.7	Wastewater	
Total Recoverable Mercury	EPA245.2	Wastewater	
Total Recoverable Copper	EPA200.7	Wastewater	
Total Recoverable Cadmium	EPA200.7	Wastewater	
Total Recoverable Arsenic	EPA200.7	Wastewater	
Total Recoverable Zinc	EPA200.7	Wastewater	
Total Recoverable Silver	EPA200.7	Wastewater	
Total Recoverable Nickel	EPA200.7	Wastewater	
Total Recoverable Lead	EPA200.7	Wastewater	

Total Recoverable Chromium	EPA200.7	Wastewater	
Total Recoverable Beryllium (as Be)	EPA200.7	Wastewater	
Total Recoverable Cobalt	EPA200.7	Wastewater	
Total Recoverable Tin	EPA200.7	Wastewater	
Oil and Grease	EPA418.1	Wastewater	
Analytical Test-Not Otherwise Spec.			**To Be Requested as needed**

- Periodic Analysis

Periodic Testing CNLV Drinking Water			
Requested Parameters	Method	Matrix	Remarks
Fecal Coliform	COLILERT-18	Drinking water	
Analytical Test-Not Otherwise Spec.			**To Be Requested as needed**
Analytical Test-Not Otherwise Spec.			**To Be Requested as needed**

Attachment A

VOC's by EPA 624 Include:	SVOC's by EPA 625 Include:	
1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethylene 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,3-Dichloropropene Dichlorobromomethane Ethylbenzene Methylene chloride Trans-1,2 Dichloroethylene 1,1,2,2-Tetrachloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 2-ChlOC'Oethyl vinyl ether, (mixed) Acrolein Acrylonitrile Benzene Bormoform Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Dlbromochloromethane Hexachlorobutadiene Methyl bromide (Bromomelthane) Methyl chloride (Chloromelthane) Tetrachloroethylene Toluene Trichloroethylene Vinyl Chloride	2,4-Dichlorophenol 2,4-Dinitrophenol 2,4-Dichlorophenol 4-Chloro-3-methylphenol 1,2-Diphenylhydrazine 1,4-Dichlorobenzene 2,4,6-Trichlorophenol 2,4-Dimethylphenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Chloronaphthalene 2-Chlorophenol 2-Nitrophenol 3,3-Dichlorobenzidine 4-Bromophenyl phenyl ether 4-Chlorophenyl phenyl ether 4-Nitrophenol Acenaphthene Acenaphthylene Anthracene Benzidine Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Bis(2-chloroethoxy) methane Bis(2-chloroethyl) ether Bis(2-chloroisopropyl) ether Bis(2-athrlhexyl) phthalate Butyl benzyl phthaltate Chrysene Dlbenzo(a,h)anthracene	Diethyl phthalate Dimethyl phthalate Di-n-bUtyl phthalate Di-n-octyl phthalate Floranthene Fluorene Hexachlorobenzene Hexachlorocyclopentadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone Naphthalene Nitorbenzene N-Netrosodiphenylamine N-Nltrosodimethylamine N-Nitrosodi-N-propylamine Pentachlorophenol Phenanthrene Phenol Pyrene

Pesticides & PCB's by EPA 608 Include:			
PCB-1221	.gamma. – BHC	Endosulfane sulfate	Toxaphene
PCB-1242	4,4-DDD	Endrin aldehyde	
PCB-1254	4,4-DDE	Heptachlor	
.alpha.- BHC	4,4-DDT	Heptachlor epoxide	
.alpha.- Endosulfan	Aldrin	PCB-1016	
.beta. – Endosulfan	Chlordane	PCB-1232	
.beta. – BHC	Endrine	PCB-1248	
.delta. – BHC	Dieldrin	PCB-1260	

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing**

EXHIBIT LISTING

Exhibit A - Offer Statement and Business Information which consists of the following:

- (a) An individual authorized to bind the Company should sign the statement, and the date signed should follow the signature.
- (b) Provide the name and phone number of the representative authorized to negotiate on behalf of the Respondent and answer questions regarding the Bid.
- (c) Provide copies of all Respondent's held state and local licenses applicable to performance of the subject potential Contract. Any Respondent conducting business must have a City of North Las Vegas Business License upon award of the contract. Information concerning City Business License requirements and fees may be obtained by calling the Business Services Division at 702-633-1520. However, a business license is not required to provide a Bid to the City.
- (d) Acknowledgement of any Bid addenda.

Exhibit B – Qualifications and Experience of Respondent

Exhibit C –Affidavit of Rejection of Coverage for Workers' Compensation under NRS 616B.627 and NRS 617.210 (If applicable, this form must also be notarized)

Exhibit D – Non-Collusion Affidavit ** this form must be notarized **

Exhibit E – Written Certification Required by NRS 332.065(3) for contracts with an estimated annual amount required for performance that is in excess of \$100,000.00.

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT A
OFFER STATEMENT AND BUSINESS INFORMATION**

This Bid is submitted in response to **BID B-1563 Water Reclamation Facility Laboratory Testing** and constitutes an offer by this company to enter into a contract as described herein.

AUTHORIZED SIGNATURE NAME (TYPE OR PRINT) LEGAL NAME OF RESPONDENT

AUTHORIZED SIGNATURE DATE

TITLE TELEPHONE NUMBER FAX NUMBER

ADDRESS OF RESPONDENT

CITY STATE ZIP CODE

E-MAIL ADDRESS: _____

CNLV-BUSINESS LICENSE NO: _____

____ A COPY OF MY CNLV BUSINESS LICENSE IS ATTACHED (if applicable)

FOR INFORMATIONAL PURPOSES ONLY

Is this Respondent a Minority, Women or Disabled Veteran Business Enterprise?

___ No ___ Yes If YES specify ___ MBE ___ WBE ___ DVBE

Has this Respondent been certified as a Minority, Women or Disabled Veteran Business Enterprise?

___ No ___ Yes If YES specify Certifying Agency _____

Please attach a copy of your certification.

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT B
QUALIFICATIONS AND EXPERIENCE OF RESPONDENT**

Name: _____

1. Respondent shall provide a brief description of the Responder's qualifications and experience, and number of years in operation.

Provide 3 examples of contracts similar in size and scope that have been completed in the past 5 years. The City reserves the right to verify references for the companies identified. Ensure references have given permission to be contacted by the City.

Example Contract 1:

Company Name: _____

Company Address: _____

Point of Contact: _____ Phone Number: _____

E-Mail Address: _____

Brief Description of Contract Scope: _____

Term of Contract (Base plus Option Years): _____

Year of Base Contract Award: _____ Year Contract Completed: _____

Base Contract Amount: \$ _____ Total Contract Amount (including all option years) \$ _____

Did the contract contain a liquidated damages clause? ☐ YES ☐ NO

If yes, were damages assessed? ☐ YES ☐ NO If yes, what was the amount assessed? \$ _____

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT B – QUALIFICATIONS AND EXPERIENCE OF RESPONDENT (Continued)**

Example Contract 2:

Company Name: _____

Company Address: _____

Point of Contact: _____ Phone Number: _____

E-Mail Address: _____

Brief Description of Contract Scope: _____

Term of Contract (Base plus Option Years): _____

Year of Base Contract Award: _____ Year Contract Completed: _____

Base Contract Amount: \$ _____ Total Contract Amount (including all option years) \$ _____

Did the contract contain a liquidated damages clause? ☐ YES ☐ NO

If yes, were damages assessed? ☐ YES ☐ NO If yes, what was the amount assessed? \$ _____

Example Contract 3:

Company Name: _____

Company Address: _____

Point of Contact: _____ Phone Number: _____

E-Mail Address: _____

Brief Description of Contract Scope: _____

Term of Contract (Base plus Option Years): _____

Year of Base Contract Award: _____ Year Contract Completed: _____

Base Contract Amount: \$ _____ Total Contract Amount (including all option years) \$ _____

Did the contract contain a liquidated damages clause? ☐ YES ☐ NO

If yes, were damages assessed? ☐ YES ☐ NO If yes, what was the amount assessed? \$ _____

(ATTACH ADDITIONAL SHEET(S) IF EXTRA SPACE IS NEEDED)

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT C – AFFIDAVIT OF REJECTION OF COVERAGE
FOR WORKERS' COMPENSATION
UNDER NRS 616B.627 AND NRS 617.210**

In the State of Nevada, County of Clark, _____, being duly sworn,
deposes and says:

1. I make the following assertions pursuant to NRS 616B.627 and NRS 617.210.
2. I am a sole proprietor who will not use the services of any employees in the performance of this Contract with the City of North Las Vegas.
3. In accordance with the provisions of NRS 616B.659, I have not elected to be included within the terms, conditions and provisions of chapters 616A to 616D, inclusive, of NRS, relating thereto.
4. I am otherwise in compliance with the terms, conditions and provisions of chapters 616A to 616D, inclusive, of NRS.
5. In accordance with the provisions of NRS 617.225, I have not elected to be included within the terms, conditions and provisions of chapter 617 of NRS.
6. I am otherwise in compliance with the terms, conditions and provisions of chapter 617 of NRS.
7. I acknowledge that the City of North Las Vegas will not be considered to be my employer or the employer of my employees, if any; and that the City of North Las Vegas is not liable as a principal contractor to me or my employees, if any, for any compensation or other damages as a result of an industrial injury or occupational disease incurred in the performance of this Contract.

I, _____, do here swear under penalty of perjury that the assertions of
this affidavit are true.

Signed this _____ day of _____, 20_____.

Signature _____

State of _____

County of _____

Signed and sworn to (or affirmed) before me on this _____ day of _____, 20_____,
by _____ (name of person making statement).

Notary Signature _____

STAMP AND SEAL



**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT D- Non-Collusion Affidavit**

State of _____ County of _____

_____ being first duly sworn deposes that:

- (1) He/She is the _____ of _____, the Respondent that has submitted the attached Bid.
- (2) He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
- (3) Such Bid is genuine and is not a collusive or sham Bid;
- (4) Neither the said Respondent nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Respondent, firm, or person to submit a collusive or sham Bid in connection with the contract or agreement for which the attached Bid has been submitted or to refrain from making a Bid in connection with such contract or agreement, or collusion or communication or conference with any other Respondent, or, to fix any overhead, profit, or cost element of the Bid price or the Bid price of any other Respondent, or to secure through collusion, conspiracy, connivance, or unlawful agreement any advantage against the City of North Las Vegas or any person interested in the proposed contract or agreement; and
- (5) The Bid of service outlined in the Bid is fair and proper and is not tainted by collusion, conspiracy, connivance, or unlawful agreement on the part of the Respondent/team or any of its agents, representatives, owners, employees, or parties including this affiant.

(Signed): _____
Title:

Subscribed and sworn to before me this _____ day of _____ 201__.

Notary Public

My Commission expires: _____



**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT E - Written Certification**

Pursuant to NRS 332.065(3), a governing body or its authorized representative shall not enter into a contract with an estimated value in excess of \$100,000 with a company unless the contract includes a written certification that the company is not currently engaged in, and agrees for the duration of the contract not to engage in, a boycott of Israel.

By signing below, the Respondent agrees and certifies that they do not currently boycott Israel and will not boycott Israel during any time in which they are entering into, or while in contract, with the City. If at any time after the signing of this certification, the Respondent decides to engage in a boycott of Israel, the Respondent must notify the City in writing.

AUTHORIZED SIGNATURE NAME (TYPE OR PRINT)

LEGAL NAME OF RESPONDENT

AUTHORIZED SIGNATURE

DATE

TITLE

G Mayor
John J. Lee

City Manager
Ryann Juden

Council Members
Scott Black
Pamela A. Goynes-Brown
Richard Cherchio
Isaac E. Barron



FINANCE DEPARTMENT
2250 Las Vegas Boulevard, North · Suite 710 · North Las Vegas, Nevada 89030
Telephone: (702) 633-2438 · Fax: (702) 669-3328 · TDD: (800) 326-6868
www.cityofnorthlasvegas.com

April 6, 2020

City of North Las Vegas
Bid B1563 – Water Reclamation Facility Laboratory Testing
Addendum No. 1

The deadline for questions for this proposal was 12:00 p.m., Monday April 06, 2020. The following are the questions that were received along with the answers to those questions.

Question 1. Are we able to subcontract any of the analysis outside of our network for analysis we don't perform or would our lab need to do all analysis in order to bid on this project?

Answer: Yes

Question 2. Are micro and BOD samples collected 7 days a week / 365 days a year?

Answer: Yes

Question 3. Are no bid items allowed on the RFP response?

Answer: The line items are on NGEM to respond to

Question 4. Is the use of subcontract labs acceptable or is the intent to reward to one laboratory that offers full scope of work?


Answer: Yes

Question 5. Who is the current incumbent?

Answer: Silver State Analytical Laboratories, Inc

Question 6. Can you provide the name of the incumbent laboratory currently performing the work along with the contracted price schedule for services?

Answer: Silver State Analytical Laboratories, Inc. Contracted prices can be requested through a public records request through the City Clerk's Office.



Marie Leake
Buyer
Purchasing Department

G Mayor
John J. Lee

City Manager
Ryann Juden

Council Members
Scott Black
Pamela A. Goynes-Brown
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April 8, 2020

City of North Las Vegas
Bid B1563 – Water Reclamation Facility Laboratory Testing
Addendum No. 2

The deadline for questions for this proposal was 12:00 p.m., Monday April 06, 2020. The following are the questions that were received prior question cut off period but were missed on Addendum 1,

Question 1. Must respondent bid on all items or will a No Bid response be acceptable?

Answer: Yes, respondent must bid on all items

Question 2. Will City of North Las Vegas be willing to pack and ship samples to laboratory via courier (i.e. UPS or FedEx) for testing?

Answer: No. Respondent must provide for pickup and shipping.

A handwritten signature in black ink, appearing to be 'ML' or similar initials.

Marie Leake
Buyer
Purchasing Department

G Mayor
John J. Lee

City Manager
Ryann Juden

Council Members
Scott Black
Pamela A. Goynes-Brown
Richard Cherchio
Isaac E. Barron



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April 15, 2020

City of North Las Vegas
Bid B1563 – Water Reclamation Facility Laboratory Testing
Addendum No. 3

This addendum 3 is issued to attach alternate versions of Exhibit C & D that can be completed by Bidders who are unable to have forms notarized due to COVID-19 Closures.

Attached is Exhibit C-Declaration of Rejection of Coverage and Exhibit D-Non-Collusion Declaration.

A handwritten signature in black ink, appearing to read 'Marie Leake', is positioned above a horizontal line.

Marie Leake
Buyer
Purchasing Department

**CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT C – DECLARATION OF REJECTION OF COVERAGE
FOR WORKERS' COMPENSATION
UNDER NRS 616B.627 AND NRS 617.210**

I, _____, hereby declare as follows:

1. I make the following assertions pursuant to NRS 616B.627 and NRS 617.210.
2. I am a sole proprietor who will not use the services of any employees in the performance of this Contract with the City of North Las Vegas.
3. In accordance with the provisions of NRS 616B.659, I have not elected to be included within the terms, conditions and provisions of chapters 616A to 616D, inclusive, of NRS, relating thereto.
4. I am otherwise in compliance with the terms, conditions and provisions of chapters 616A to 616D, inclusive, of NRS.
5. In accordance with the provisions of NRS 617.225, I have not elected to be included within the terms, conditions and provisions of chapter 617 of NRS.
6. I am otherwise in compliance with the terms, conditions and provisions of chapter 617 of NRS.
7. I acknowledge that the City of North Las Vegas will not be considered to be my employer or the employer of my employees, if any; and that the City of North Las Vegas is not liable as a principal contractor to me or my employees, if any, for any compensation or other damages as a result of an industrial injury or occupational disease incurred in the performance of this Contract.

I declare under penalty of perjury under the law of the State of Nevada that the foregoing is true and correct.

Signed this _____ day of _____, 20_____.

Signature_____



CITY OF NORTH LAS VEGAS
INVITATION TO BID
BID B-1563 Water Reclamation Facility Laboratory Testing
EXHIBIT D- Non-Collusion Declaration

I, _____ hereby declare as follows:

- (1) He/She is the _____ of _____, the Respondent that has submitted the attached Bid.
- (2) He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
- (3) Such Bid is genuine and is not a collusive or sham Bid;
- (4) Neither the said Respondent nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Respondent, firm, or person to submit a collusive or sham Bid in connection with the contract or agreement for which the attached Bid has been submitted or to refrain from making a Bid in connection with such contract or agreement, or collusion or communication or conference with any other Respondent, or, to fix any overhead, profit, or cost element of the Bid price or the Bid price of any other Respondent, or to secure through collusion, conspiracy, connivance, or unlawful agreement any advantage against the City of North Las Vegas or any person interested in the proposed contract or agreement; and
- (5) The Bid of service outlined in the Bid is fair and proper and is not tainted by collusion, conspiracy, connivance, or unlawful agreement on the part of the Respondent/team or any of its agents, representatives, owners, employees, or parties including this affiant.

I declare under penalty of perjury under the law of the State of Nevada that the foregoing is true and correct.

Signed this _____ day of _____, 20_____.

Signature_____

EXHIBIT B

First Amendment

Please see the attached page(s).

FIRST AMENDMENT AND RENEWAL OF THE WATER RECLAMATION FACILITY LABORATORY TESTING SERVICES AGREEMENT

This First Amendment and Renewal of the Water Reclamation Facility Laboratory Testing Services Agreement (“First Amendment”) is made and entered into as of 06/14/2022 10:42:42 PDT (“Effective Date”) by and between the City of North Las Vegas, a Nevada municipal corporation (hereinafter referred to as “City”), and MDK, LLC, a Nevada limited liability company, d/b/a WETLAB (hereinafter referred to as “Services Provider”; collectively, City and Services Provider will be referred to as the “Parties”).

RECITALS

WHEREAS, on July 2, 2020, City and Services Provider entered into the Water Reclamation Facility Laboratory Testing Services Agreement (the “Original Agreement”), a copy of which is attached as Exhibit A (the Original Agreement and this First Amendment may be collectively referred to as the “Agreement”);

WHEREAS, the City wants to renew the Agreement for two years and extend the Agreement with Services Provider through June 30, 2024;

WHEREAS, Services Provider wants to increase the prices for the services it provides to the City under the Agreement during the second year of the Agreement that ends on June 30, 2022; and

WHEREAS, as detailed in Schedule A below, the Parties agree to increase the annual not to exceed amount of the Agreement to \$157,578.00 from \$137,578 for Year 2 and to \$152,578.00 from \$137,578 from for Years 3 and 4, thereby increasing the total not-to-exceed amount of this Agreement to \$600,312 from \$550,312.

NOW THEREFORE, in consideration of the mutual covenants and agreements set forth in this First Amendment and for other good and valuable consideration, the Parties agree as follows:

AGREEMENT

1. Except for the terms specifically set forth below, the Parties confirm and reaffirm the terms and conditions of the Original Agreement.
2. The Parties agree that Section 2.1 of the Original Agreement be deleted in its entirety and replaced with the following new Section 2.1:


2.1 The City shall pay the Services Provider for its services as listed on the Bid as reflected in Schedule A below.

Schedule A:		
Year:	Paid in Fiscal Year:	Not to Exceed Amount:
Year 1	July 1, 2020 - June 30, 2021	\$ 137,578.00
Year 2	July 1, 2021 - June 30, 2022	\$ 157,578.00
Year 3 (Renewal)	July 1, 2022 - June 30, 2023	\$ 152,578.00
Year 4 (Renewal)	July 1, 2023 - June 30, 2024	\$ 152,578.00
TOTAL:		\$ 600,312.00

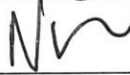
For Year 2, the annual not to exceed amount of the Agreement is \$157,578.00. For Year 3, the annual not to exceed amount of the Agreement is \$152,578.00. For Year 4, the annual not to exceed amount of the Agreement is \$152,578.00. The total not to exceed amount of this Agreement is \$600,312.00. The term of this Agreement commenced on July 2, 2020 and the Agreement is in effect through June 30, 2022. With this First Amendment, the City hereby exercises its option to renew the Original Agreement and the Parties agree to extend the Agreement for an additional two-year period with the Agreement now being in effect through June 30, 2024 (the "Term").

IN WITNESS WHEREOF, the Parties have executed this First Amendment as of the Effective Date.


City of North Las Vegas,
a Nevada municipal corporation

By: 
Ryann Juden, City Manager

MDK, LLC
d/d/a WETLAB
a Nevada limited liability company

By: 
Name: NICK ROSS
Title: COO

Attest:

By: 
Jackie Rodgers, City Clerk

Approved as to Form:

By: 
Micaela Rustia Moore, City Attorney



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
5/9/2023

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

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

PRODUCER ISU INS SERV - BC ENV BROKERAGE 1037 Suncast Ln Ste 103 El Dorado Hills, CA 95762	CONTACT NAME: DINA ATHEY	
	PHONE (A/C, No, Ext): (916)939-1080	FAX (A/C, No): (916)939-1085
INSURED MDK, LLC DBA WESTERN ENVIRONMENTAL TESTING LABORATORY 475 EAST GREG ST., STE. 119 SPARKS, NV 89431	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	
	INSURER A: ADMIRAL INSURANCE COMPANY	NAIC # 24856
	INSURER B: SENTINEL INSURANCE CO. LTD.	11000
	INSURER C: HARTFORD U.W. INS. CO.	10456
	INSURER D: GREAT AMERICAN INSURANCE CO.	22136
INSURER E:		
INSURER F:		

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY			FEI-ECC-22620-07	05/06/23	05/06/24	EACH OCCURRENCE	\$ 1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
	<input checked="" type="checkbox"/> CONT. POLLUTION						MED EXP (Any one person)	\$ 10,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						PERSONAL & ADV INJURY	\$ 1,000,000
	<input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC						GENERAL AGGREGATE	\$ 2,000,000
	OTHER:						PRODUCTS - COMP/OP AGG	\$ 2,000,000
B	AUTOMOBILE LIABILITY			57 UEC VX1251 SC	06/04/23	06/04/24	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person)	\$
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident)	\$
	<input checked="" type="checkbox"/> HIRED AUTOS	<input checked="" type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident)	\$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB			FEI-EXS-22621-07	05/06/23	05/06/24	EACH OCCURRENCE	\$ 3,000,000
	<input type="checkbox"/> EXCESS LIAB	<input type="checkbox"/> CLAIMS-MADE					AGGREGATE	\$ 3,000,000
	<input type="checkbox"/> DED	<input type="checkbox"/> RETENTION \$						\$
								\$
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			57 WEC DF6963 12	05/06/23	05/06/24	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y/N <input type="checkbox"/> N/A					E.L. EACH ACCIDENT	\$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
A	PROF. LIAB. (E&O)			FEI-ECC-22620-07	05/06/23	05/06/24	\$1,000,000 OCCURRENCE	
	CLAIMS MADE			RETRO 05/06/02			\$2,000,000 AGGREGATE	
D	PROPERTY			CPP 2383912 17	05/06/23	05/06/24		

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

RE: ALL OPERATIONS**THE CITY AND ITS OFFICERS AND EMPLOYEES HAVE BEEN NAMED AS ADDITIONAL INSURED WITH RESPECT TO THE GENERAL LIABILITY. PRIMARY COVERAGE APPLIES.****(BLANKET ENDORSEMENTS ATTACHED)**

CERTIFICATE HOLDER

CANCELLATION

CITY OF NORTH LAS VEGAS
2250 LAS VEGAS BLVD, N
NORTH LAS VEGAS, NV 89030

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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