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Richard J. Cherchio

Acting City Manager
Maryanne Ustick



Your Community of Choice

Purchasing/Risk Management Division

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**CITY OF NORTH LAS VEGAS
REQUEST FOR PROPOSAL # 007-035
FOR THE CITY OF NORTH LAS WATER RECLAMATION FACILITY
LABORATORY SERVICES**

Proposals will be received in the Office of the City Clerk, 2200 Civic Center Drive, North Las Vegas, Nevada, 89030 **until 2:00 p.m. on, February 22, 2011** and will be publicly opened and read shortly thereafter in the City Council Chambers at the previous address in City Hall.

A Pre-Proposal Conference will not be held. Proposed Suppliers should submit their questions and/or concerns by mail to Tony Esguerra, Assistant Purchasing Manager , 2200 Civic Center Drive, North Las Vegas, NV 89030 or by e-mail at esguerraa@cityofnorthlasvegas.com. ***The cutoff for questions and answers will be February 15, 2011 at 1:00 p.m.***

PROPOSAL documents may also be accessed at www.bidsync.com, www.demandstar.com or under the Purchasing Bid Opportunities Web site on the City's page www.cityofnorthlasvegas.com.

The City reserves the right to reject any and all Proposals, waive any informality or technicality or to otherwise accept Proposals deemed in the best interest of the City.

Karen L. Storms, CMC
City Clerk

**Published Review Journal
February 11, 2011
February 12, 2011**

**REQUEST FOR PROPOSAL
007-035 LABORATORY SERVICES FOR THE WATER RECLAMATION
FACILITY (WRF)**

GENERAL PROVISIONS

1. ADDENDA INTERPRETATIONS:
If it becomes necessary to revise any part of this RFP, a written addendum will be provided. The City is not bound by any oral clarifications changing the scope of work for this project. The Addenda must be acknowledged and returned in the Proposal document.
2. PUBLIC RECORDS:
The RFP document and all proposals submitted in response thereto are public records. You are cautioned to not put any material into the proposal that is proprietary in nature. All proposals submitted become the property of the City.
3. PERFORMANCE OF WORK:
The selected firm 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.
4. FORM OF CONTRACT:
Execution of the attached contract agreement (sample attached), by all named parties and issuance of a Purchase Order will authorize delivery of services obtained under this proposal.
5. LABELING OF PROPOSALS:
All proposals must be submitted in a sealed envelope plainly marked, "RFP NO. 007-035 LABORATORY SERVICES FOR THE WRF FACILITY" with address of the firm in the upper left hand corner. No responsibility will attach to the City, any official or employee thereof, for the pre-opening, post-opening, or failure to open, a proposal not properly addressed and identified.
6. EXPLANATION TO PROPOSERS:
Any explanations desired by PROPOSERS regarding the meaning or interpretation of specifications must be requested in writing and with sufficient time allowed for a reply to reach them before submission of their proposals. 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-proposal documents will not be binding if presented to any RESPONDENT orally or in writing. Every request for such interpretation should be in writing addressed to either for Purchasing issues to Tony Esguerra, Assistant Purchasing Manager or esguerra@cityofnorthlasvegas.com or ATTN: Tony Esguerra, Purchasing City of North Las Vegas, 2200 Civic Center Drive, North Las Vegas, NV 89030. or for technical assistance or clarifications to Dave N. Commons, same address or mail at commons@cityofnorthlasvegas.com, Any and all such interpretations and any supplemental instructions deemed necessary will be in the form of written addenda to the specifications which, if issued, will be mailed to all known perspective RESPONDENTS. Failure of any RESPONDENT to receive any such addendum or interpretation shall not relieve such RESPONDENT from any obligation under this proposal as submitted. All addenda so issued shall become part of the Contract Documents.

The cutoff date for any questions regarding this project is: February 15, 2011@ 1:00 P.M. PACIFIC STANDARD TIME. Any questions beyond this cut off time will not be answered.

7. METHOD OF EVALUATION AND AWARD:

The evaluation criterion is explained under the Submittal Requirements. Please break it down according to the Sections and your proposal will be evaluated accordingly.

8. SUBMITTAL REQUIREMENTS:

Submit one original and three copies of the proposal.

All proposals shall be on 8-1/2" X 11" paper, with tabbed dividers labeled by sections to correspond with the format below:

See the Scope of Work for additional submittal requirements requested.

STANDARD TERMS~

9. ASSIGNMENT OF CONTRACTUAL RIGHTS:

It is agreed that this 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. The firm or firms will be an independent service provider for all purposes and no agency, either expressed or implied, exists.

10. AWARD OPTIONS:

The City of North Las Vegas reserves the right to award this RFP on any basis which is in its best interest.

11. CONDITIONS OF PROPOSAL SUBMITTAL:

- A. The proposal must be signed by a duly authorized official of the proposing firm submitting the proposal.
- B. No proposal 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. Only one proposal will be accepted from any person, firm, or corporation.
- D. All proposals shall be prepared in a comprehensive manner as to content, but no necessity exists for expensive binders or promotional material.

12. PROPOSAL PROTESTS:

Any individual or company who submits a PROPOSAL on the contract may file a notice of protest regarding the award of the contract. The protest must be submitted in writing to the City Clerk within five (5) business days after the date on which PROPOSALS were opened. The written protest must include a statement setting forth, with specificity, the reasons the person filing the protest believes that applicable provisions of the contract 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: twenty-five (25) percent of the total value of the PROPOSAL submitted by the person filing the notice of protest; or 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 PROPOSAL 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 PROPOSAL, 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

endorsements as are required to cover the risks involved. In addition, the Service provider 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. The cost of this insurance shall be deemed included in the prices for the various items of work and no additional compensation will be made therefore.

18. WORKMEN'S COMPENSATION INSURANCE:

The Service provider shall secure, maintain in full force and effect and bear the cost of complete Workmen's Compensation Insurance in accordance with the Nevada Industrial Insurance Act - Nevada Revised Statutes, Chapter 616, for the duration of the contract and shall furnish the City, prior to the execution of the contract, a Certificate of Insurance which meets the requirements of the Nevada Industrial Insurance Act. 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 Service provider to comply with the provisions of this paragraph.

19. INDEMNITY:

The successful PROPOSAL agrees to defend, indemnify, and hold the City harmless from any and all causes of action or claims arising out of or related to the proposer's performance on this project.

20. 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 PROPOSER'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 and they will be deemed to be included in the contract the same as though herein written out in full.

21. CANCELLATION OF CONTRACT:

The OWNER reserves the right to cancel the award or execution of any contract at any time before the Purchase Order has been issued without any liability or claims thereof against the OWNER.

22. TAXES:

The City is exempt from State, retail and Federal Excise Tax. The proposal price must be net, exclusive of taxes.

23. INDEMNITY:

The successful proposer agrees to defend, indemnify, and hold the City harmless from any and all causes of action or claims arising out of or related to the PROPOSER'S performance on this project.

24. CONFLICTS OF INTEREST:

All bidders are required to identify situations where, in their opinion, a conflict of interest may occur. Conflicts may include but not be limited to situations where ongoing statutory audit and advisory relationships

25. EXCEPTIONS:

Each PROPOSER will list on a separate sheet of paper any exceptions to specifications and attach it to their proposal.

26. See following attachment Laboratory Services, Scope of Work

Laboratory Services Scope of Work

A. BACKGROUND

The City of North Las Vegas Utilities Department (CNLVUD) is a public agency, and includes a 25 MGD wastewater treatment facility regulated under a NPDES permit issued by the NDEP. The effluent is continuously monitored to ensure compliance with all state and federal standards. The facility has a pretreatment program which requires routine monitoring of industrial and commercial discharges.

B. PROCESS OVERVIEW

CNLVUD will select the proposals that best meet its needs and no one criterion will be determinative. CNLVUD may select different proposals from different firms, based on its needs, costs and scheduling.

C. SELECTION PROCESS

A proposal will be selected that would be in the Department's best interests and may be based on some or all of the following criteria:

- Readiness to conduct analyses
- CNLVUD benefits (bottle delivery/sample transport, report options, etc.)
- Ability of laboratory to deliver analytical results electronically and on digital media
- Diversity of laboratory capabilities
- Quality Assurance Program
- Quality Control Program
- Ability of laboratory to integrate CNLVUD chain of custody tracking with laboratory's chain of custody
- Performance evaluations
- Reliability and responsiveness
- Price of Services
- National Environmental Laboratory Accreditation Certification (NELAC)
- Nevada Division of Environmental Protection (NDEP) Environmental Laboratory Accreditation Program Certification

No one factor will be determinative.

The top three (3) qualified laboratories will be provided with two (2) unknown samples, one for metals and one for Volatile Organic Compounds (VOC's). The laboratories will be required to analyze and report out, meeting the electronic deliverable requirements outlined herein. A seven day turnaround period will be required. All costs associated with such demonstration samples will be the responsibility of the prospective laboratories.

D. TIME FOR AWARD

Summaries of the proposals will be prepared and will be provided to the CNLVUD Director for informational purposes with a recommendation for the successful proposal for City of North Las Vegas approval. Thereafter, the Department staff would begin the contract negotiation process.

E. PROPOSAL GUIDELINES

The Attachment "A" is specific to the Water Reclamation contracts respectively. In the attachments, Part 1 projects the estimated yearly analytical needs for the contract. Part 2 provides the specification and format requirements for electronic/digital transfer of analytical results. Part 3 outlines the CNLVUD's proposed chain of custody tracking requirements. The terms and conditions for the analytical services for the section are specified in a Contract for Analytical Services, and are included in Part 4 of the attachment. Successful bidders will be required to execute the Contracts substantially in the form provided. Exceptions to the proposed Contracts must be submitted in the initial proposal. The expected number of samples to be analyzed in Part 1 of the attachment is based on the United States Environmental Protection Agency, and the Nevada Division of Environmental Protection (NDEP) requirements and may vary based on regulatory changes. Analyses may be subcontracted to a third party laboratory subject to conditions in the Contract for Laboratory Services. The actual annual cost of Laboratory Services provided to the City of North Las Vegas Utilities Department will be based on the unit prices submitted and the actual number of samples successfully analyzed.

F. PROPOSAL MINIMUM REQUIREMENT:

Proposals **must** include:

- Statement of Qualifications
- Pricing for both standard and expedited analytical processing and sampling/results turnaround time
- Sample transport and delivery options for both standard and expedited analytical processing
- NDEP Environmental Laboratory Accreditation Program (ELAP) Certification, National Environmental Laboratory Accreditation Program (NELAP) Certification and two most recent NDEP-Environmental Laboratory Accreditation Program (ELAP) audit evaluations with corrective action reports (latest 2 audits with respective CARs)
- Quality assurance manual and current acceptance criteria for constituents/methods listed in Part 1 of the attachments
- Method Standard Operating Procedures (SOP)
- Relevant Experience
- List of available instrumentation
- Copies of detection limit determinations
- Copies of the last four (4) Water Pollution (wastewater) performance evaluation (PE) studies and DMR-QA for constituents/methods listed in Parts 1 of the attachments and for which the laboratory has NDEP ELAP/NELAP accreditation.
- Copies of corrective action letters for performance deficiencies noted in PE studies and the ELAP audit

NELAP and Nevada ELAP certification is a condition precedent to the contract for analytical services. Laboratories that are within 60 miles of the City of North Las Vegas and that analyze the bulk of the work at a local laboratory will be preferred for this work.

FEE ESTIMATE:

A separate, sealed fee estimate shall be provided.

Bidder will provide a proposal for water reclamation analysis.

**ANALYTICAL SERVICES CONTRACT
WATER UTILITY**

Attachment "A"

- Part 1 – Estimated Annual Needs
- Part 2 – Electronic Submittal Specifications
- Part 3 – Chain of Custody Specification
- Part 4 – Laboratory Contract

ATTACHMENT "A"
WATER RECLAMATION
PART 1
ESTIMATED ANNUAL ANALYTICAL NEEDS

ANALYTICAL TEST	EPA TEST METHOD	QUANTITY PER YEAR
<i>Biological</i>		
Coli form (fecal), MF, colony-forming units per 100 mL	p. 124	365
Coli form (total), MF, colony-forming units per 100 mL	p. 108	365
<i>Inorganic</i>		
Nitrogen, Ammonia, total (as N), mg/L 00610 1 0	350.1	365
Antimony, total, mg/L 01268 1 0	200.9, 200.7, 200.8	12
Arsenic, total, mg/L 00978 1 0	206.5, 206.2, 206.3, 200.9, 200.7, 200.8	12
Asbestos 00948 1 0	100.1, 100.2	12
Beryllium, total, mg/L 00998 1 0	200.7, 200.8, 200.9, 210.1, 210.2	12
Biochemical Oxygen Demand (BOD5), mg/L 00310 1 0	405.1	1095
Cadmium, total, mg/L 01113 1 0	200.7, 200.8, 200.9, 213.1, 213.2	12
Chromium VI dissolved, mg/L	218.6	12
Chromium, total, mg/L 01118 1 0	200.7, 200.8, 200.9, 218.1, 218.2, 218.3	12
Copper, total, mg/L 01119 1 0	200.7, 200.8, 200.9, 220.1, 220.2	12
Cyanide, total (as CN), mg/L 00720 1 0	335.2, 335.3, 335.4	12
Hardness, total (as CaCO3), mg/L	130.1, 130.2	4
Iron, total, mg/L	200.7, 200.9, 236.1, 236.2	12
Kjeldahl Nitrogen, total (as N), mg/L 00625 1 0	351.1, 351.2, 351.3, 351.4	52
Lead, total, mg/L	200.8, 200.9, 239.1,	12

01114 1 0	239.2	
Molybdenum, total, mg/L	200.7, 200.8, 200.9, 246.1, 246.2	12
Mercury, total, mg/L 71901 1 0	245.1, 245.2, 200.8, 1631E	12
Nickel, total, mg/L 01074 1 0	200.7, 200.8, 200.9, 249.1, 249.2	12
Nitrate plus Nitrite, total (as N), mg/L 00630 1 0	300.0, 300.1, 353.2	52
Orthophosphate (as P), mg/L 04175 1 0	300.0, 300.1, 365.1, 365.5, 365.6	365
Phosphorus, total, mg/L 00665 1 0	365.1, 365.3, 365.4	365
Potassium, total, mg/L	200.7,200.8, 200.9	4
Residue, filterable, mg/L (TDS, Total Dissolved Solids) 70295 1 0	160.1	52
Residue, non-filterable, mg/L (TSS, Total Suspended Solids) 00530 1 0	160.2	730
Selenium, total, mg/L 00981 1 0	200.8, 200.9,270.2, 270.2, 270.3	12
Sulfide (as S), mg/L	300.0, 376.1, 376.3	4
Silver, total, mg/L 01077 1 0	200.7, 200.8, 200.9, 272.1 272.2	12
Thallium, total, mg/L 00982 1 0	200.8, 200.9, 279.1, 279.2	12
Zinc, total, mg/L 01094 1 0	200.7, 200.8, 289.1, 289.2	12
Non-Pesticide Organics		
Purgeables	624, 624-S, 1624B, 1625B	12
Acrolein 34210 1 0		
Acrylonitrile 34215 1 0		
Benzene 34030 1 0		
Bromodichloromethane 32101 1 0		
Bromoform 32104 1 0		
Bromomethane (Methyl bromide) 34413 1 0		
Carbon tetrachloride		

32102 1 0		
Chlorobenzene 34301 1 0		
Choroethane 85811 1 0		
2-Chloroethylvinyl ether 34576 1 0		
Chloroform 32106 1 0		
Chloromethane (Methyl chloride) 34418 1 0		
Dibromochloromethane 34556 1 0		
1,2-Dichlorobenzene 34536 1 0		
1,3-Dichlorobenzene 34566 1 0		
1,4-Dichlorobenzene 34571 1 0		
1,1-Dichloroethane 34496 1 0		
1,2-Dichloroethane 32103 1 0		
1,1-Dichloroethene 34501 1 0		
Trans-1,2-Dichloroethene 34546 1 0		
1,2-Dichlorophenol 34541 1 0		
Cis-1,3-Dichloropropene 34704 1 0		
Trans-1,3-Dichloropropene 34699 1 0		
Ethylbenzene 34371 1 0		
Methylene chloride 34423 1 0		
1,1,2,2-Tetrachloroethane 34516 1 0		
Tetrachloroethene 34475 1 0		
Toluene 34010 1 0		
1,1,1-Trichloroethane 34506 1 0		
1,1,2-Trichloroethane 34511 1 0		
Trichloroethene 39180 1 0		

Vinyl chloride 39175 1 0		
Nitrosamines	607, 1625B, 6255	12
N-Nitrosodimethylamine (NDMA) 34438 1 0		
N-Nitrosodi-n-propylamine 34428 1 0		
N-Nitrosodiphenylamine 34433 1 0		
Acids and Base/Neutrals including PCBs	625, 625-S, 1625B	12
Acenaphthene 34205 1 0		
Acenaphthylene 34200 1 0		
Anthracene 34220 1 0		
Benzidine 39120 1 0		
Benzo (a) anthracene 34526 1 0		
Benzo (b) pyrene 34247 1 0		
Benzo (b) fluoranthene 34230 1 0		
Benzo (g,h,i) perylene 34521 1 0		
Benzo (k) fluoranthene 34242 1 0		
Benzy butyl phthalate 34292 1 0		
Bis (2-chloroethoxy) methane 34278 1 0		
Bis (2-chloroethyl) ether 34273 1 0		
Bis (2-ethylexyl) phthalate 39100 1 0		
4-Bromophenyl phenyl ether 34636 1 0		
4-Chloro-3-methyl phenol 70012 1 0		
2-Chloronaphthalene 34581 1 0		
2-Chlorophenol 34586 1 0		
4-Chlorophenyl phenyl ether 34641 1 0		

Chrysene 34320 1 0		
Dibenzo (a,h) anthracene 34556 1 0		
3,3-Dichlorobenzidine 34631 1 0		
2,4-Dichlorophenol 34601 1 0		
Diethyl phthalate 34336 1 0		
2,4-Dimethylphenol 34606 1 0		
Dimethyl phthalate 34341 1 0		
Di-n-butyl phthalate 39110 1 0		
Di-n-octyl phthalate 34596 1 0		
2,4-Dinitrotoluene 34611 1 0		
2,6-Dinitrotoluene 34626 1 0		
Fluoranthene 34371 1 0		
Fluorene 34381 1 0		
Hexachlorobenzene 39700 1 0		
Hexachlorobutadiene 34391 1 0		
Hexachlorocyclopentadiene 34386 1 0		
Hexachloroethane 34396 1 0		
Ideno (1,2,3-cd) pyrene 34403 1 0		
Isophorone 34408 1 0		
2-Methyl-4,6-dinitrophenol 03615 1 0		
Naphthalene 34696 1 0		
Nitrobenzene 34447 1 0		
2-Nitrophenol 34591 1 0		
4-Nitrophenol 34646 1 0		
2,2'-Oxybis (2-chloropropane) [Bis (2-chloroisopropyl) ether] 34283 1 0		

PCB-1016 34671 1 0		
PCB-1221 39488 1 0		
PCB-1232 39492 1 0		
PCB-1242 39496 1 0		
PCB-1248 39500 1 0		
PCB-1254 39504 1 0		
PCB-1260 39508 1 0		
Pentachlorophenol 39032 1 0		
Phenanthrene 34461 1 0		
Phenol 34694 1 0		
Pyrene 34469 1 0		
2,3,7,8-Tetra-chlorodibenzo- p-dioxin 34675 1 0		
1,2,4-Trichlorobenzene 34551 1 0		
2,4,6-Trichlorophenol 34621 1 0		
Pesticides		
Organochlorine Pesticides	608	12
Aldrin 39330 1 0		
Alpha-BHC 39336 1 0		
Beta-BHC 39338 1 0		
Delta-BHC 34198 1 0		
Gamma-BHC (Lindane) 39344 1 0		
Chlordane 39350 1 0		
4,4'-DDD 39310 1 0		
4,4'-DDE 39320 1 0		
4,4'-DDT 39300 1 0		
Dieldrin		

39380 1 0		
Endosulfan I 34361 1 0		
Endosulfan II 34356 1 0		
Endosulfan Sulfate 34351 1 0		
Endrin 39390 1 0		
Endrin aldehyde 34366 1 0		
Heptachlor 39410 1 0		
Heptachlor epoxide 39420 1 0		
Toxaphene 39400 1 0		
<i>Radiological</i>		
Gross Alpha & Gross Beta	900.0	1
Uranium	908.1	1

EPA website link:

<http://www.epa.gov/region09/qa/dataval.html>

ATTACHMENT "A"
PART 2
SPECIFICATIONS AND FORMAT REQUIREMENTS
FOR THE ELECTRONIC AND/OR
DIGITAL TRANSFER OF ANALYTICAL RESULTS

The following will cover the technical issues with regard to the electronic data transfer of water quality data between analytical laboratories and CNLVUD.

The lab will be capable of producing an electronic analysis results transfer file. The file will contain individual parameter results on individual lines within the file.

Each line of data will contain the following fields:

Analysis ID number, Site Name, Lab Name, Sample Date, Sample Time, collected By, Submit Date, Submit Time, Submit By Name, Parameter Description, Analysis Value, Analysis Units, Analysis RDL, Analysis Method, Analysis Date and Sample Type. Each field will be separated with a TAB. A sample file is available on request.

After contract award, the laboratory will provide assistance to CNLVUD staff and consultants to coordinate issues with the electronic interface between their data system and the CNLVUD database.

Specifically the laboratory will provide assistance with:

Demonstration of the ability to send analysis results files as email attachments.

Mapping laboratory naming conventions for parameters into CNLVUD parameter names. The CNLVUD data base uses STORET numbers to define analytical parameters.

Mapping of CNLVUD analysis method names to the laboratory method names for all EPA Methods.

Verification that the sampling location names supplied by CNLVUD in the sample submittals are captured by the laboratory data system and are returned exactly in the report file.

ATTACHMENT "A"
PART 3
SPECIFICATIONS AND FORMAT REQUIREMENTS FOR THE CHAIN OF CUSTODY
TO ACCOMPANY THE ANALYSIS AND ANALYTICAL RESULTS

When the sample bottles are received by the lab they will have a waterproof label with an accompanied Chain of Custody number that includes other basic information. The laboratory must be able to send Chain of Custody data in the Write-On header files. The format of the Write-On header files is as follows:

Each entry in a Header file contains nine rows as shown below.

Row Description	Sample Data
Sampling Date/Time	9912101630
Sample ID (Lab)	413392-1
Sampled By	MAX MAYBERRY
Sampled For	CNLVUD
Number of Results For Sample	00012
Comment 1	#
Comment 2	#
Comment 3	#

Chain of Custody data, which will be provided by CNLVUD in either written or electronic form, must be electronically entered into the Comment 1 field of the Write-On header file. This COC number will be assigned by CNLVUD and will hold within it the date of sample, COC number and the number of the sample point.

ATTACHMENT "A"
PART 4

STANDARD AGREEMENT FOR ANALYTICAL SERVICES

This Agreement is entered into by and between the City of North Las Vegas Utilities Department (CNLVUD) and _____ ("Laboratory"). This contract is effective three (3) years, with two (2) two (2) year extensions as provided in this Agreement.

I. TERM

This Agreement has a three (3) year term, renewable for two (2) two (2) year terms. The initial three year term will commence as set forth in the opening paragraph of this Agreement. At least six months prior to the end of the initial three year term, CNLVUD may give notice that it desires to extend the Agreement for an additional two year period. Notice of subsequent two (2) year extension will be provided at least six months prior to the end of the previous extension. Laboratory agrees to provide analytical services as outlined herein, at the original contract price plus an increase not to exceed five (5) percent. The increase, not to exceed five (5) percent, shall be effective upon each two (2) year extension.

II. TERMINATION OF AGREEMENT BEFORE END OF TERM

CNLVUD may terminate this Agreement for cause, if an independent check sample reflects a failure by Laboratory to properly perform its obligations under this Agreement. Additionally, if the CNLVUD determines through a reasonable, good faith investigation that Laboratory has failed to perform its obligations to provide Quality Assurance and Quality Control for laboratory samples, it may terminate this Agreement. In the event that the Nevada Division of Environmental Protection, Environmental Laboratory Accreditation Program (ELAP) certification for the tests contained in Exhibit 1 lapses or is revoked, CNLVUD may elect to terminate this Agreement.

III. LABORATORY CERTIFICATION

For the purposes of Laboratory certification, all required notifications will be sent in writing to the following CNLVUD personnel:

- Director
- Deputy Director
- Water Reclamation Facility Administrator

City of North Las Vegas
Utilities Department
2829 Fort Sumter Drive
North Las Vegas, NV 89030

A. NELAC AND NDEP ELAP Certification Required

Laboratory is certified and registered as an environmental testing laboratory pursuant to the provisions of the Nevada Administrative Code 445A.0552 – 445A.067 to perform all of the analyses listed in Exhibit 1 of this Agreement. Laboratory warrants that it has a valid certificate from the Environmental Laboratory Accreditation Program and National Environmental Laboratory Accreditation Program and will maintain such certifications throughout the term of this Agreement.

B. Participation in DMR and WP Studies

Laboratory will participate in EPA QA performance studies required by the NDEP-ELAP and any required NDEP or EPA QA studies and submit a copy of the study results to the CNLVUD.

C. Notification

Laboratory will notify the CNLVUD, in writing, of any change in the laboratory operation that impacts ELAP certification, such as transfer of ownership, change of laboratory director, change in location, major changes in instrumentation, or structural alterations that have an effect on quality of analysis. A copy of any required notifications submitted to the ELAP program or copies of notifications from the ELAP program which address certification status will be sent to the CNLVUD. Notification must be provided to the following CNLVUD personnel:

- Director
- Deputy Director
- Water Reclamation Facility Administrator

City of North Las Vegas
Utilities Department
2829 Fort Sumter Drive
North Las Vegas, NV 89030

D. Use of Subcontractors

All of the laboratory work shall be completed by the Laboratory. Work shall be completed by personnel, instrumentation and facilities under the general supervision and control of the Laboratory Director. No analytical services for the CNLVUD may be subcontracted to another laboratory, without written permission from the CNLVUD personnel listed in "C" above. Any laboratory work that is subcontracted must be performed by a certified laboratory. Any such subcontract Laboratory will be subject to all Agreement specifications and certifications as stated herein.

The CNLVUD may request that Laboratory subcontract special analytical services that cannot be performed by Laboratory. Examples of these services are the

analysis of acute toxicity and Gross Alpha. These services will be billed through the contract agreement with Laboratory. The laboratory reports for subcontracted services will be reported by the laboratory that provided the analysis. The reports will be on the subcontract laboratory's letterhead.

E. Qualified Analysts – Review by Professional

All of the laboratory work will be preformed by qualified analysts. The educational qualifications and work experience of all analysts performing laboratory work for the CNLVUD shall be available for review. The City of North Las Vegas Utilities Department shall be notified when there is a change in the principal analysts. The qualifications of the new principal analyst(s) will be submitted to the CNLVUD for review.

Each analytical result will be reviewed and approved by a Quality Assurance Officer or other staff member not directly involved with performing the analysis before the final report is released to the CNLVUD. All data will be subjected to a structured Quality Assurance review by a qualified professional not involved with producing the data.

IV. DELIVERY OF ANALYSES

A. Routine Turnarounds

1. Routine Samples Other Than Coli form and Nitrate:

A report for each routinely scheduled sample, except coliform and nitrate samples will be sent to the CNLVUD within 14 – days after receipt of sample. A special effort will be made to ensure that all of the analytical results for the previous calendar month are complete and have been submitted by the 7th of the following month. Laboratory will notify the following CNLVUD personnel any time that a complete report is not issued within 14-days:

- Director
- Deputy Director

- Water Reclamation Facility Administrator

There will be a reduction in the cost of any test that was not reported within 14-days. The following cost reductions will apply:

Final report submitted between 15 and 21-working days after receipt of sample: 0.8 multiplied by the contract price for each test not reported on the initial report.

Final report submitted between 22 and 30-working days after receipt of sample: 0.5 multiplied by the contract price for each test not reported on the initial report.

Final report submitted more than 30-working days after receipt of sample: No charge for each test not reported on the initial report.

The cost reductions outlined above will apply only when quality assurance issues are not involved. Laboratory reserves the right to delay final reporting, without reduction in cost of the test, if quality issues involving the data are at stake. Laboratory will not release data which does not meet minimum QA/QC criteria and is, therefore, not legally defensible. A written statement describing the quality issues will accompany the delivery of delayed reports.

2. Coli form and Nitrate Samples:

a. Availability of Samples

CNLVUD will make every effort to make coli form and nitrate samples available to Laboratory by 3:00 p.m. weekdays. Charges for pick ups after 4:00 p.m. on weekdays, on weekends, or on holidays will be based solely on the per hour rate paid to the individual who is assigned to pick up those samples. Laboratory will make a good faith effort to assign individuals who are not on

overtime, in the event that a pick up must occur after 4:00 p.m. on weekdays, on a weekend, or on a holiday.

b. Analysis by Laboratory

Laboratory will analyze coli form and nitrate samples in accordance with the unit prices set forth in Exhibit 1. Laboratory will deliver its analyses in the same manner as set forth above.

c. Immediate Notification Requirements

Laboratory will provide immediate (within two hours) coli form result via facsimile, upon completion of the test, in a form substantially like that set forth in Exhibit 5. If coli form is present in any samples submitted (presumptive or confirmed phase of testing), telephone notification as outlined in Exhibit 6 is also required. Nitrate results will be sent via facsimile within forty eight (48) hours of sample receipt in a form substantially like that set forth in Exhibit 5. Laboratory will then deliver results in the same form as that for regulatory or compliance samples when it has had an opportunity to submit same to its QA/QC process. Telephone notification within 24 hours or less is required, for water supply samples, whenever a chemical, mineral, or radiological sample constituent concentration reaches or exceeds a maximum contaminant level as established by the Nevada Division of Environmental Protection as set forth in Exhibit 6.

B. Reporting Conventions

1. Information Required

The formal record for all samples submitted will be the standard report format found in the Nevada Water Quality Data Entry and Reporting System Write-On, organized with all parameters associated with a single sample. Analyses identified as NPDES, or other requested analyses, will be submitted on Laboratory letterhead and will be approved for release and signed by the laboratory director, or by a designated authorized representative of Laboratory. Both report formats may be requested on special project samples for assurance that all method parameters are reported.

At a minimum, the report will contain the date and time the sample was submitted to the laboratory and the client sample description. For each parameter, the report will include the parameter name, result, units, method, reporting limit, date of analysis, and the analyst. The formats for reporting results from different analytical areas may vary as long as the minimum requirements are met.

The signed laboratory reports from the Laboratory are the formal record for regulatory purposes. If errors, exceptions, or corrections are found after a report has been issued, Laboratory will issue a revised report and an explanation for the revised result to all parties that received the initial report. The report will be clearly marked as a revise or "amended" report. All laboratory data will also be provided electronically in a format compatible with the CNLVUD databases.

2. Reporting Limit Procedures

Laboratory shall provide the CNLVUD with its Method Detection Limits studies for all required parameters and update as necessary. On reports for DPH required monitoring only, the laboratory MDL must be below the DLR specified by DPH and included on the Write-On forms.

For NPDES (EPA, NDEP) reporting, the MDL must be at or below the minimum levels (MLs) as shown in Exhibit. Sample results shall include the applicable ML and the current laboratory generated MDL.

a. Reporting Limits

Reporting requirements specified for NDEP reporting will be followed for Write-On reporting. For NPDES reporting, Laboratory will determine a reporting limit (RL) or limit of quantization (LOQ) for each method and parameter. The RL/LOQ is expected to be based on a combination of laboratory procedure and best professional judgment. The RL/LOQ represents the concentration where the laboratory expects reliable detection and quantification to begin. The RL/LOQ is expected to be higher than the method detection limit (MDL). The RL/LOQ is not the same as a Practical Quantification Level as shown in Exhibit 4 (PQL). The RL/LOQ is based on a single laboratory application of best professional judgment. The PQL is an inter-laboratory value with specified variability criteria for determining permit compliance. The analytical method that has been selected must have a reporting limit that is at or below the lowest MLs listed in the SIP. If the analyte concentration is significantly higher than the lowest ML listed, a higher ML is allowed as long as the ML selected is below the analyte concentration in the sample.

Laboratory will notify the CNLVUD when the laboratory reporting limit for a requested method is not at least as sensitive as the lowest MLs listed in the SIP for that method, and will recommend a more sensitive procedure, if an approved EPA method is available. Laboratory will prepare a list of reporting limits that will be used for each analytical method and parameter. Laboratory will notify the CNLVUD, in writing, when any of the

listed reporting limits have been changed. Values above the reporting limit will be reported as a number.

b. Reporting Not-Detected

The term Not-Detected (N.D.) will be used to indicate that either the analyte was not detected, or that the concentration of the analyte was less than the DLR for DPH required reporting. The alpha designator, N.D. will be reported, along with the DLR on Write-On forms or RL associated with that method, for all values that are less than the reporting limit. A less than value must be reported for VOC data. For EPA/NPDES reporting, values between the laboratory generated MDL and the ML value, when the ML is greater than the MDL, shall be reported as “DNQ” with the estimated value in parentheses. Values below the MDL shall be reported as “ND.”

C. Specials

The cost for parameters (types of tests, not quantities) not included in Exhibit 1 will be billed at Laboratory’s list prices, less fifteen percent (15%). Laboratory’s Standard Price List is attached as Exhibit 3. In the event that the CNLVUD begins to use a test with regularity for which there is no price set forth in Exhibit 1, CNLVUD can request an amendment to Exhibit 1. The CNLVUD may request that the process of analysis and reporting be expedited and will expect an adjustment of costs for these analyses. In the event that the CNLVUD does request an expedited turnaround, the CNLVUD will pay a premium, calculated as follows:

For special samples that require an expedited analysis and/or report, to the extent that Laboratory can perform such expedited services, the CNLVUD agrees to pay an additional fifty percent (50%) of the cost of the test for the expedited turnaround. An

expedited analysis shall not be defined as anything equal to or more than the turnaround times specified in Section IV.

For compliance testing, the following premium values will apply:

Final report requested and delivered within 48-hours of sample receipt: 1.25 multiplied by the Laboratory list price.

Final report requested and delivered within 72-hours of sample receipt: 1.15 multiplied by the Laboratory list price.

Final report requested and delivered within five (5) days of sample receipt: 1.05 multiplied by the Laboratory list price.

D. Documentation of unanalyzed samples

Laboratory will provide written notification when a requested parameter is not analyzed for any sample logged into the laboratory. The notification will indicate that the sample was received and the reason why no analytical result for the parameter was produced. Telephone notification should be made as soon as the problem is discovered. It may be possible for the CNLVUD to comply with permit or regulatory requirements by submitting a resample on a subsequent day.

V. GENERAL PROCEDURES

A. Sample Containers

Laboratory will provide all required sample bottles containers, precleaned, with attached labels and containing the proper preservatives. Any necessary sampling instructions to ensure sample integrity will be submitted to CNLVUD with the first set of containers, any time there is a change in the sampling instructions, and annually thereafter. All sample containers used for these samples will be new. Additional bottles for external quality control samples will be supplied when requested.

Sample containers of each type will be randomly selected for a bottle audit. The bottle audit will demonstrate that the cleaning and conditioning procedures, when used,

are adequate. Each bottle will be filled with laboratory grade deionized water and analyzed for each analyte in that analytical group. Laboratory will perform a bottle audit as required by ELAP.

B. Preservatives

The acid used for preservation and digestion of metals samples for these samples will be ULTREX nitric acid or equivalent. ACS reagent grade sulfuric acid will be used for preservation of nitrogen samples. If preservation is done at the sampling site, a reagent blank, prepared by adding the same amount of preservative to 18 megohm deionized water as is added to samples, will be analyzed for each lot of acid used to preserve samples for North Las Vegas. Laboratory will supply preservatives, and reagent blanks will be prepared and submitted by CNLVUD staff and analysis will be charged as samples. The results of the reagent blanks will be reported to the CNLVUD.

C. Chain of Custody

The chain of custody for all samples will be documented on forms provided by CNLVUD or Laboratory. Each sample will be logged into the Laboratory with the CNLVUD assigned unique sample identifier. The sample identifier will be cross referenced to the site location and date and time assigned by the sampling team. A copy of the completed chain of custody form will be attached to the report for each sample. Additionally, the chain of custody information set forth in attachment "A", Part 3 will be provided in the electronic/digital write-on data transfer to the CNLVUD.

VI. METHODS AND SAMPLING PLANS

For reporting purposes, ELAP certified methods shall be used. A written routine sampling plan for the subsequent month will be submitted to Laboratory at least seven days before the beginning of the next month. The majority of the analyses under this agreement are expected to be routine, scheduled samples. The CNLVUD reserves the right to modify the sampling plan at any time.

VII. QUALITY CONTROL

Laboratory will maintain and implement a written quality assurance plan. All quality assurance and quality control procedures required by the referenced test methods and Nevada Division of Environmental Protection' ELAP requirements will be implemented as outlined in the quality assurance plan submitted by Laboratory, which is incorporated by reference into this Agreement. These procedures will include the following: standardization, calibration, certification, and documentation of maintenance of laboratory equipment and instruments and documentation and quality assurance checks throughout all phases of testing procedures. CNLVUD reserves the right to audit the quality assurance plan, documentation and records.

A. Internal Quality Control

Laboratory will analyze internal quality control on a per batch basis. A batch shall consist of a maximum of 20 samples. Batch quality control (QC) will consist of the following as applicable:

Laboratory Control Samples (LCS)

Matrix Spike (required for trace analyses)

Duplicate analysis (LCSD, MSD, or sample duplicate)

Method Blank

Laboratory will ensure that all laboratory QC requirements and data acceptance criteria are met. Where possible, all CNLVUD samples in a batch will be reanalyzed, if any laboratory acceptance criteria are not met.

Method blanks will be prepared by carrying a sample of deionized water through the exact procedure used to prepare each sample for analysis. The method blank will be exposed to the same glassware, procedures, and reagents as the sample.

Laboratory control standards will be analyzed with each batch. The concentration of the laboratory control standard will be selected to be near the median

concentration of the samples in the batch. For samples where the results are expected to be not detected, or below reporting thresholds, an additional LCS shall be analyzed in the batch with the concentration at or near the reporting threshold (RL or ML).

Matrix spikes, when applicable, will be analyzed for each batch. A sample will be randomly selected from each batch and will be spiked with a known amount of a laboratory standard and the percent recovery calculated. In general, the concentration of the spike will be approximately equal to the concentration of the sample.

Either a duplicate of the matrix spike or a duplicate of a sample taken at random will be analyzed for each batch and the percent relative difference will be calculated.

A report will be prepared monthly that lists all exceptions to standard quality control procedures and acceptance criteria that are related to compliance samples submitted by the CNLVUD. This report should also include any comments that are related to samples submitted by the CNLVUD and the analytical procedures used to develop data. The report will discuss the significance of the QC exceptions to the reported result and will contain a determination as to whether the data should be rejected or reported. A report shall be submitted indicating that there are no relevant comments or exceptions for the calendar month, if no comments or exceptions were noted. One copy of this report will be sent to CNLVUD personnel at the Water Reclamation facility and one copy of the report will be sent to the attention of the Deputy Director for the CNLVUD:

Water Reclamation Facility
2580 Betty Lane
North Las Vegas, NV 89156
Attn: D. Commons

City of North Las Vegas Utilities Department
2829 Fort Sumter Drive
North Las Vegas, NV 89030
Attn: R. Scheppmann

All batch quality control data will be on file at Laboratory for at least 24 months and a copy of the batch QC will be submitted with the analytical reports. Laboratory will submit a QC summary report monthly.

B. External Quality Control

CNLVUD will submit external quality control samples as blind samples to Laboratory. The external quality control samples may include field duplicates, matrix spike duplicates, and certified standard reference materials. CNLVUD will pay for these samples in accordance with the contract. If there are problems with external control samples that can only be resolved by reanalyzing the samples, CNLVUD will not pay for the reanalysis if the analytical problem identified is related to Laboratory's performance.

C. QA/QC Documentation

On specific samples, an elevated level of reporting similar to superfund project reports may be requested for QA/QC documentation. This may include stringent sample custody documentation and copies of laboratory instrumentation printouts for sample analysis, including standards/calibration data. Cost for this level of reporting will be negotiable at the time of the request and depend on the documentation required. This cost shall not exceed a 25% increase over standard list pricing for the analysis requested.

D. Annual Report

An annual report will be prepared for CNLVUD by February 28th of each year, which summarizes the quality assurance (QA) activities for the previous year. Laboratory will provide the specific quality control documentation described in this Agreement in a form suitable for the annual report.

E. Dispute Resolution

In the event that CNLVUD disputes the effectiveness of Laboratory's QA/QC processes, the parties will meet and confer to establish mutually acceptable QA/QC processes.

VIII. DATA REVIEW

Data will be formally reviewed by the Quality Assurance Officer. Every data element in each data set will be reviewed. No data will be reported until the review has been completed. The signature on the report is a certification that the following data review criteria have been applied.

Laboratory warrants that it will perform the following data review:

Review the data set for completeness. Confirm that all sample sites and parameters are reported or that there is an explanation for each missing data point.

Review the data report. Confirm that all titles, labels, column headings, and footnotes are accurate and complete. Confirm that all titles, labels, column headings, and footnotes are accurate and complete. Confirm that all parameters are reported in proper units.

Review the date and time documentation. Confirm that the sample dates and times are consistent with the date and time received in the laboratory. Confirm that the dates and time for analysis are consistent with the dates and times of the analysis. Confirm that the holding times were not exceeded, based on a comparison of sampling and analysis date and times.

Review the internal quality control results. Confirm that spike recovery percentages on matrix spikes, relative percent difference on laboratory duplicates, and percent error on laboratory control standards were within acceptance limits. Confirm that digestion blanks, reagent blanks, and method blanks do not contain concentrations of analyte that interfere with interpretation of data.

Review all values that are reported as None Detected. Confirm that reporting limits are below Write-On DLRs or MLs listed in the SIP.

Confirm that all values are either reported as values or as ND with a corresponding reporting limit.

IX. CERTIFICATION STATEMENT

The laboratory Director for Laboratory will sign the following verbatim certification statement for the data submitted for each calendar month. This certification statement will be submitted with the sample data reports on a monthly basis.

“I certify that all laboratory reports were prepared under my direction or supervision, and that all analyses were performed in accordance with a system designed to assure that qualified personnel perform the analysis, use the specified EPA approved methods, and review the data before it is reported. Based on my inquiry of the person or persons who manage the system, or the persons directly responsible for gathering the information, the information reported is, to the best of my knowledge and belief, true, accurate, and complete.”

X. SUPPORT SERVICES

A customer service representative will be assigned to work directly with CNLVUD staff.

CNLVUD staff and their designated technical consultants will have access to the QA/QC manager, laboratory director, and section supervisors, for issues that cannot be resolved by the customer service representative, at no additional cost.

Laboratory will provide written clarification and response to technical questions related to work performed, when specifically requested by the CNLVUD.

XI. AUDITS

The CNLVUD or its designated technical representative will be authorized to perform a complete audit of the facilities and procedures used by Laboratory every six

months. Audits may be scheduled or unannounced. Audits will include a detailed review of internal quality control data, reporting procedures, and any specific terms and conditions of this agreement.

XII. PAYMENTS TO THE LABORATORY

Laboratory shall submit to CNLVUD its standard invoice describing the Services performed and expenses incurred with each analytical report. CNLVUD shall make payment of all undisputed portions of such invoice and provide written justification for the withholding of any disputed portions to Laboratory within thirty (30) calendar days after receipt of Laboratory's monthly invoice. For all services – CNLVUD shall pay the Laboratory for services performed or furnished under this Agreement on the basis set forth in Exhibit "1". Payment shall be made to Laboratory based on the billing rates set forth in Exhibit "2". The total fee for all services shall not exceed _____ (_____).

CITY OF NORTH LAS VEGAS

INSERT
LABORATORY
NAME

CITY COUNCIL

BY: _____
Shari L. Buck, Mayor
City of North Las Vegas

BY: _____

BY: _____
Reed Scheppman, Acting, Director TITLE
City of North Las Vegas Utilities Department

[Corporate Seal]

**ANALYTICAL SERVICES CONTRACT
WATER RECLAMATION**

Attachment "B"

- Part 1 – Estimated Annual Needs
- Part 2 – Electronic Submittal Specifications
- Part 3 – Chain of Custody Specification
- Part 4 – Laboratory Contract

ATTACHMENT "B"
WATER RECLAMATION
PART 1
ESTIMATED ANNUAL ANALYTICAL NEEDS

ANALYTICAL TEST	EPA TEST METHOD	QUANTITY PER YEAR
Biological		
Coli form (fecal), MF, colony-forming units per 100 mL 74055 1 0	p. 124	365
Coli form (total), MF, colony-forming units per 100 mL	p. 108	365
Inorganic		
Nitrogen, Ammonia, total (as N), mg/L 00610 1 0	350.1	365
Antimony, total, mg/L 01268 1 0	200.9, 200.7, 200.8	12
Arsenic, total, mg/L 00978 1 0	206.5, 206.2, 206.3, 200.9, 200.7, 200.8	12
Asbestos 00948 1 0	100.1, 100.2	12
Beryllium, total, mg/L 00998 1 0	200.7, 200.8, 200.9, 210.1, 210.2	12
Biochemical Oxygen Demand (BOD5), mg/L 00310 1 0	405.1	1095
Cadmium, total, mg/L 01113 1 0	200.7, 200.8, 200.9, 213.1, 213.2	12
Chromium VI dissolved, mg/L	218.6	12
Chromium, total, mg/L 01118 1 0	200.7, 200.8, 200.9, 218.1, 218.2, 218.3	12
Copper, total, mg/L 01119 1 0	200.7, 200.8, 200.9, 220.1, 220.2	12
Cyanide, total (as CN), mg/L 00720 1 0	335.2, 335.3, 335.4	12
Hardness, total (as CaCO3), mg/L	130.1, 130.2	4
Iron, total, mg/L	200.7, 200.9, 236.1, 236.2	12
Kjeldahl Nitrogen, total (as N), mg/L 00625 1 0	351.1, 351.2, 351.3, 351.4	52

Lead, total, mg/L 01114 1 0	200.8, 200.9, 239.1, 239.2	12
Molybdenum, total, mg/L	200.7, 200.8, 200.9, 246.1, 246.2	12
Mercury, total, mg/L 71901 1 0	245.1, 245.2, 200.8	12
Nickel, total, mg/L 01074 1 0	200.7, 200.8, 200.9, 249.1, 249.2	12
Nitrate plus Nitrite, total (as N), mg/L 00630 1 0	300.0, 300.1, 353.2	52
Orthophosphate (as P), mg/L 04175 1 0	300.0, 300.1, 365.1, 365.5, 365.6	365
Phosphorus, total, mg/L 00665 1 0	365.1, 365.3, 365.4	365
Potassium, total, mg/L	200.7,200.8, 200.9	4
Residue, filterable, mg/L (TDS, Total Dissolved Solids) 70295 1 0	160.1	52
Residue, non-filterable, mg/L (TSS, Total Suspended Solids) 00530 1 0	160.2	730
Selenium, total, mg/L 00981 1 0	200.8, 200.9,270.2, 270.2, 270.3	12
Sulfide (as S), mg/L	300.0, 376.1, 376.3	4
Silver, total, mg/L 01077 1 0	200.7, 200.8, 200.9, 272.1 272.2	12
Thallium, total, mg/L 00982 1 0	200.8, 200.9, 279.1, 279.2	12
Zinc, total, mg/L 01094 1 0	200.7, 200.8, 289.1, 289.2	12
Non-Pesticide Organics		
Purgeables	624, 624-S, 1624B, 1625B	12
Acrolein 34210 1 0		
Acrylonitrile 34215 1 0		
Benzene 34030 1 0		
Bromodichloromethane 32101 1 0		
Bromoform 32104 1 0		
Bromomethane (Methyl		

bromide) 34413 1 0		
Carbon tetrachloride 32102 1 0		
Chlorobenzene 34301 1 0		
Choroethane 85811 1 0		
2-Chloroethylvinyl ether 34576 1 0		
Chloroform 32106 1 0		
Chloromethane (Methyl chloride) 34418 1 0		
Dibromochloromethane 34556 1 0		
1,2-Dichlorobenzene 34536 1 0		
1,3-Dichlorobenzene 34566 1 0		
1,4-Dichlorobenzene 34571 1 0		
1,1-Dichloroethane 34496 1 0		
1,2-Dichloroethane 32103 1 0		
1,1-Dichloroethene 34501 1 0		
Trans-1,2-Dichloroethene 34546 1 0		
1,2-Dichlorophenol 34541 1 0		
Cis-1,3-Dichloropropene 34704 1 0		
Trans-1,3-Dichloropropene 34699 1 0		
Ethylbenzene 34371 1 0		
Methylene chloride 34423 1 0		
1,1,2,2-Tetrachloroethane 34516 1 0		
Tetrachloroethene 34475 1 0		
Toluene 34010 1 0		
1,1,1-Trichloroethane 34506 1 0		
1,1,2-Trichloroethane		

34511 1 0		
Trichloroethylene 39180 1 0		
Vinyl chloride 39175 1 0		
Nitrosamines	607, 1625B, 6255	12
N-Nitrosodimethylamine (NDMA) 34438 1 0		
N-Nitrosodi-n-propylamine 34428 1 0		
N-Nitrosodiphenylamine 34433 1 0		
Acids and Base/Neutrals including PCBs	625, 625-S, 1625B	12
Acenaphthene 34205 1 0		
Acenaphthylene 34200 1 0		
Anthracene 34220 1 0		
Benzidine 39120 1 0		
Benzo (a) anthracene 34526 1 0		
Benzo (b) pyrene 34247 1 0		
Benzo (b) fluoranthene 34230 1 0		
Benzo (g,h,i) perylene 34521 1 0		
Benzo (k) fluoranthene 34242 1 0		
Benzy butyl phthalate 34292 1 0		
Bis (2-chloroethoxy) methane 34278 1 0		
Bis (2-chloroethyl) ether 34273 1 0		
Bis (2-ethylexyl) phthalate 39100 1 0		
4-Bromophenyl phenyl ether 34636 1 0		
4-Chloro-3-methyl phenol 70012 1 0		
2-Chloronaphthalene 34581 1 0		
2-Chlorophenol		

34586 1 0		
4-Chlorophenyl phenyl ether 34641 1 0		
Chrysene 34320 1 0		
Dibenzo (a,h) anthracene 34556 1 0		
3,3-Dichlorobenzidine 34631 1 0		
2,4-Dichlorophenol 34601 1 0		
Diethyl phthalate 34336 1 0		
2,4-Dimethylphenol 34606 1 0		
Dimethyl phthalate 34341 1 0		
Di-n-butyl phthalate 39110 1 0		
Di-n-octyl phthalate 34596 1 0		
2,4-Dinitrotoluene 34611 1 0		
2,6-Dinitrotoluene 34626 1 0		
Fluoranthene 34371 1 0		
Fluorene 34381 1 0		
Hexachlorobenzene 39700 1 0		
Hexachlorobutadiene 34391 1 0		
Hexachlorocyclopentadiene 34386 1 0		
Hexachloroethane 34396 1 0		
Ideno (1,2,3-cd) pyrene 34403 1 0		
Isophorone 34408 1 0		
2-Methyl-4,6-dinitrophenol 03615 1 0		
Naphthalene 34696 1 0		
Nitrobenzene 34447 1 0		
2-Nitrophenol 34591 1 0		

4-Nitrophenol 34646 1 0		
2,2'-Oxybis (2-chloropropane) [Bis (2-chloroisoprpyl) ether] 34283 1 0		
PCB-1016 34671 1 0		
PCB-1221 39488 1 0		
PCB-1232 39492 1 0		
PCB-1242 39496 1 0		
PCB-1248 39500 1 0		
PCB-1254 39504 1 0		
PCB-1260 39508 1 0		
Pentachlorophenol 39032 1 0		
Phenanthrene 34461 1 0		
Phenol 34694 1 0		
Pyrene 34469 1 0		
2,3,7,8-Tetra-chlorodibenzo- p-dioxin 34675 1 0		
1,2,4-Trichlorobenzene 34551 1 0		
2,4,6-Trichlorophenol 34621 1 0		
Pesticides		
Organochlorine Pesticides	608	12
Aldrin 39330 1 0		
Alpha-BHC 39336 1 0		
Beta-BHC 39338 1 0		
Delta-BHC 34198 1 0		
Gamma-BHC (Lindane) 39344 1 0		
Chlordane		

39350 1 0		
4,4'-DDD 39310 1 0		
4,4'-DDE 39320 1 0		
4,4'-DDT 39300 1 0		
Dieldrin 39380 1 0		
Endosulfan I 34361 1 0		
Endosulfan II 34356 1 0		
Endosulfan Sulfate 34351 1 0		
Endrin 39390 1 0		
Endrin aldehyde 34366 1 0		
Heptachlor 39410 1 0		
Heptachlor epoxide 39420 1 0		
Toxaphene 39400 1 0		
Radiological		
Gross Alpha & Gross Beta	900.0	1
Uranium	908.1	1

EPA website link:

<http://www.epa.gov/region09/qa/dataval.html>

NPDES PRIORITY POLLUTANT LIST

Attachment "G"

ATTACHMENT G – EPA PRIORITY POLLUTANT LIST

EPA PRIORITY POLLUTANT LIST		
Metals	Acid Extractibles	Base/Neutral Extractibles (continuation)
1. Antimony	45. 2-Chlorophenol	91. Hexachloroethane
2. Arsenic	46. 2,4-Dichlorophenol	92. Ideno (1,2,3-cd) Pyrene
3. Beryllium	47. 2,4-Dimethylphenol	93. Isophorone
4. Cadmium	48. 2-Methyl-4, 6-Dinitrophenol	94. Naphthalene
5a. Chromium (III)	49. 2,4-Dinitrophenol	95. Nitrobenzene
5b. Chromium (IV)	50. 2-Nitrophenol	96. N-Nitrosodimethylamine
6. Copper	51. 4-Nitrophenol	97. N-Nitrosodi-N-Propylamine
7. Lead	52. 3-Methyl-4-Chlorophenol	98. N-Nitrosodiphenylamine
8. Mercury	53. Pentachlorophenyl	99. Phenanthrene
9. Nickel	54. Phenol	100. Pyrene
10. Selenium	55. 2,4,6 – Trichlorophenol	101. 1,2,4-Trichlorobenzene
11. Silver	Base/Neutral Extractibles	Pesticides
12. Thallium	56. Acenaphthene	102. Aldrin
13. Zinc	57. Acenaphthylene	103. Alpha BHC
Miscellaneous	58. Anthracene	104. Beta BHC
14. Cyanide	59. Benzidine	105. Delta BHC
15. Asbestos	60. Benzo (a) Anthacene	106. Gamma BHC
16. 2,3,7,8-Tetrachlorodibenzo-P-Dioxin (TCDD)	61. Benzo (a) Pyrene	107. Chlordane
Volatile Organics	62. Benzo (b) Fluoranthene	108. 4,4' – DDT
17. Acrolein	63. Benzo (g,h,i) Perylene	109. 4,4' – DDE
18. Acrylonitrile	64. Benzo (k) Fluoranthene	110. 4,4' – DDD
19. Benzene	65. Bis (2-Chloroethoxy) Methane	111. Dieldrin
20. Bromoform	66. Bis (2-Chloroethyl) Ether	112. Alpha Endosulfan
21. Carbon Tetrachloride	67. Bis (2-Chloroisopropyl) Ether	113. Beta Endosulfan
22. Chlorobenzene	68. Bis (2-Ethylhexyl) Phthalate	114. Endosulfan Sulfate
23. Chlorodibromomethane	69. 4-Bromophenyl Phenyl Ether	115. Endrin
24. Chloroethane	70. Butylbenzyl Phthalate	116. Endrin Aldehyde
25. 2-Chloroethyl Vinyl Ether	71. 2-Chloroaphthalene	117. Heptachlor
26. Chloroform	72. 4-Chlorophenyl Phenyl Ether	118. Heptachlor Epoxide
27. Dichlorobromomethane	73. Chrysene	119. PCB 1016

28. I,1-Dichloroethane	74. Dibenzo (a,h) Anthracene	120. PCB 1221
29. I,2-Dichloroethane	75. I,2-Dichlorobenzene	121. PCB 1232
30. I,1-Dichloroethylene	76. I,3-Dichlorobenzene	122. PCB 1242
31. I,2-Dichloropropane	77. I,4-Dichlorobenzene	123. PCB 1248
32. I,3-Dichloropropylene	78. 3,3'-Dichlorobenzidine	124. PCB 1254
33. Ethylbenzene	79. Diethyl Phthalate	125. PCB 1260
34. Methyl Bromide	80. Dimethyl Phthalate	126. Toxaphene
35. Methyl Chloride	81. Di-n-Butyl Phthalate	
36. Methylene Chloride	82. 1,2-Diphenylhydrazine	
37. I,1,1,2-Tetrachloroethane	83. 2-6-Dinitrotoluene	
38. Tetrachloroethylene	84. Di-n-Octyl Phthalate	
39. Toluene	85. 1,2-Diphenylhydrazine	
40. I,2-Trans-Dichloroethylene	86. Fluoranthene	
41. I,1,1-Trichloroethane	87. Fluorene	
42. I,1,2-Trichloroethane	88. Hexachlorobenzene	
43. Trichloroethylene	89. Hexachlorobutadiene	
	90.	
44. Vinyl Chloride	Hexachlorocyclopentadiene	

ATTACHMENT "B"
PART 2
SPECIFICATIONS AND FORMAT REQUIREMENTS
FOR THE ELECTRONIC AND/OR
DIGITAL TRANSFER OF ANALYTICAL RESULTS

The following will cover the technical issues with regard to the electronic data transfer of water quality data between analytical laboratories and CNLVUD.

The lab will be capable of producing an electronic analysis results transfer file. The file will contain individual parameter results on individual lines within the file.

Each line of data will contain the following fields:

Analysis ID number, Site Name, Lab Name, Sample Date, Sample Time, collected By, Submit Date, Submit Time, Submit By Name, Parameter Description, Analysis Value, Analysis Units, Analysis RDL, Analysis Method, Analysis Date and Sample Type. Each field will be separated with a TAB. A sample file is available on request.

After contract award, the laboratory will provide assistance to CNLVUD staff and consultants to coordinate issues with the electronic interface between their data system and the CNLVUD database.

Specifically the laboratory will provide assistance with:

Demonstration of the ability to send analysis results files as email attachments.

Mapping laboratory naming conventions for parameters into CNLVUD parameter names. The CNLVUD data base uses STORET numbers to define analytical parameters.

Mapping of CNLVUD analysis method names to the laboratory method names for all EPA Methods.

Verification that the sampling location names supplied by CNLVUD in the sample submittals are captured by the laboratory data system and are returned exactly in the report file.

ATTACHMENT "B"
PART 3
SPECIFICATIONS AND FORMAT REQUIREMENTS FOR THE CHAIN OF
CUSTODY TO ACCOMPANY THE ANALYSIS AND ANALYTICAL
RESULTS

The laboratory shall provide labels and chain of custody records for each sample bottle to CNLVUD. CNLVUD will fill out all sample information providing a unique identifier for each site with required analyses and sampling information.

The Chain of Custody shall be a three part NCR form with original top copy returned completed with analytical