JURUPA COMMUNITY SERVICES DISTRICT

REQUEST FOR PROPOSAL

Disposal Services of the Nitrate Specific Ion Exchange Spent Resin

Jurupa Community Services District
11201 Harrel Street
Jurupa Valley, CA 91752

Issue Date: May 1, 2024,
Due Date: May 15, 2024
Wednesday, 10:00 a.m. PST

Project Manager: Jesse Ruiz
Phone: (951) 685-7434
jruiz@jcsd.us

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I. INTRODUCTION

The Jurupa Community Services District ("District") invites fixed price proposals for turnkey disposal service of the nitrate specific ion exchange spent resin at Roger Teagarden Ion Exchange Treatment Plant which is designed to remove nitrate from water. The spent resin contains PFAS compounds. The supplier shall be responsible for handling, transporting, disposal, and all labor associated with the Offered service.

II. PROPOSAL SUBMITTAL

Proposals are due on or before **Wednesday May 15, 2024, by 10:00 A.M. PST**. Potential Proposers who wish to submit to Jurupa Community Services District ("JCSD") must submit their proposals electronically (PDF format) to:

Jesse Ruiz
Water Systems Field Supervisor
jruiz@jcsd.us

All proposals after the deadline shall be rejected. The email subject shall read **"Proposal from (Supplier's Name): Disposal Services of the Nitrate Specific Ion Exchange Spent Resin."**

Proposers are encouraged to send their electronic proposals utilizing the DELIVERY and READ receipts enabled.

Copies of this RFP are available online at https://www.jcsd.us/bids. All addenda related to this procurement will be posted online to JCSD's website.

The delivery receipt will be the proposer's verification that the proposal has been sent to JCSD prior to the 10:00 A.M. deadline; all electronic files must be less than 20MB in size, as this is JCSD's limit for email submission.

Proposals will not be opened immediately. JCSD will open and review all proposals at a later time. Results will be readily accessible to all proposers once a determination has been decided.

III. ANTICIPATED SCHEDULE

The following estimated dates have been set for this Request for Proposal:

ACTION	DATE
Release of Request for Proposal	**May 1, 2024**

Last day to submit questions for clarification received by the District on or before 5:00 P.M.	**May 7, 2024**
Deadline for Receipt of Proposals received by the District on or before 10:00 A.M.	**May 15, 2024**

The above scheduled dates are tentative and the District retains the sole discretion to adjust the above schedule. Nothing set forth herein shall be deemed to bind the District to award a contract for the above described professional Services and the District retains the sole discretion to cancel or modify any part of or all of this RFP at any time.

Proposals must be binding for a period of ninety (90) days from bid closing. All Proposers are hereby alerted that a waiting period of up to 90 calendar days from the date of the proposal submittal deadline **may** be required before proceedings are completed and an award is made. Proposers shall assume full responsibility for the effect of the waiting period on all proposal prices and terms.

The JCSD is not, nor shall be deemed liable for any costs incurred by Proposers in the preparation, submission, or presentation of their proposals.

All Proposers shall fully complete all forms and certificates provided in this solicitation as listed below:

I. **Supplier Identification Form.**

II. **Workers' Compensation Certificate.**

III. **Non-Collusion Affidavit.**

IV. **Exception Form.**

V. **References Form.**

VI. **Price Proposal Schedule.**

VII. **Completed W9 Form.**

VIII. **Certificate(s) of Insurance and endorsements as required in sample Contract, EXHIBIT "B".**

IV. INQUIRIES

Discrepancies in and/or omissions from the Bid or Contract Documents or questions as to their meaning shall be immediately brought to the attention of the JCSD by submission of a written

request for an interpretation or correction to the following email: jruiz@jcsd.us, NO LATER THAN **May 7, 2024**, by 5:00 P.M. PST.

Should it be found necessary, a written addendum will be sent to all known Proposers on **May 8, 2024, by 5:00 P.M. PST**. Inquiries received after the date and time stated will not be accepted. Any addendum issued prior to the proposal opening shall form a part of this solicitation and shall become a part of the submitted proposal.

V. INSURANCE

Proposer's attention is directed to the insurance requirements set forth in the Sample Contract, Section VIII, **EXHIBIT "B"**. It is highly recommended that Proposers confer with their respective insurance carriers or brokers to determine, in advance of proposal submission, the availability of insurance certificates and endorsements as prescribed therein. If an apparent low Proposer fails to strictly comply with said insurance requirements, that Proposer may be disqualified from award of the Contract.

VI. WITHDRAWAL OF PROPOSAL BEFORE CLOSING

Any Proposer may request withdrawal of their submitted proposal, either in person or by written request, at any time prior to the scheduled closing date and time. Upon receiving the written request to withdraw any proposal, the JCSD will consider the Proposer's proposal null and void and shall return the proposal to the Proposer unopened. Withdrawal of Proposer's proposal will not prejudice Proposer's resubmittal for this or any future proposal(s).

Any Proposer may withdraw their proposal after the proposal due date **only** if the Proposer can establish to the JCSD's satisfaction, that a mistake was made in preparing the proposal.

A. A Proposer declaring a mistake must give a written notice to the JCSD within five calendar days after the proposal due date, specifying in detail, how the mistake occurred, and how the mistake made the proposal different than it was intended.

B. Withdrawal of the proposal will only be permitted for mistakes made in the completion of the proposal and will not be permitted for mistakes resulting from errors in judgment or carelessness in interpreting the specifications. A Proposer who claims a mistake shall be PROHIBITED from participating in further bidding on the related project under which the mistake in proposal was claimed. (Public Contract Code 5105).

VII. PROPOSAL ACCEPTANCE

The JCSD reserves the right to accept or reject any or all proposals or waive any informalities or irregularities in any of the received proposals, if said action is deemed to be in the best interest of the JCSD.

VIII. AWARD/SELECTION CRITERIA

The following criteria will be used in the rating process for selection of a Supplier to provide the required services.

A. Proposed price to provide turnkey disposal services to the JCSD.

B. Ability to ensure timely disposal of the specified spent resin.

C. Past record of performance for disposal of similar products.

D. Completeness and accuracy of proposal.

E. Quantity and significance of Proposer's exceptions taken to this Request for Proposal document and sample contract, EXHIBIT "B".

F. Compliance with all insurance requirements.

Although not anticipated in conjunction with this activity, the JCSD reserves the right to award multiple contracts from this Request for Proposal, if said action is deemed to be in the best interest of the JCSD.

IX. PUBLIC RECORD

Be advised that **all** information contained in proposals submitted in response to this solicitation **shall** be subject to the California Public Records Act (Government Code Section 6250 et seq.), and information's use and disclosure are governed by this Act.

Those elements in each Proposal which the Proposer considers to be trade secrets, as that term is defined in Civil Code Section 3426.1(d), or otherwise exempt by law from disclosure, should be prominently marked as "TRADE SECRET," "CONFIDENTIAL," OR "PROPRIETARY," by the Proposer. The JCSD will use its best efforts to inform the Proposer of any request for disclosure of any such document. The JCSD, shall not in any way, be liable or responsible for the disclosure of any such records including, without limitation; those so marked if disclosure is deemed to be required by law or by an order of the Court.

In the event of litigation concerning disclosure of information which the Proposer considers exempt from disclosure, the JCSD will act as a stakeholder only; holding the information until otherwise ordered by a court or other legal process. If the JCSD is required to defend an action arising out of a Public Records Act request, for any of the contents of a Proposer's proposal marked "TRADE SECRET," "CONFIDENTIAL," or "PROPRIETARY," Proposer shall defend and indemnify JCSD from any and all liability, damages, costs, and expense, including attorneys' fee, in any action or proceeding arising under the Public Records Act.

To ensure confidentiality, Proposers are instructed to enclose all “TRADE SECRET,” “CONFIDENTIAL,” or “PROPRIETARY,” data in separate sealed envelopes, which are then included with Proposal documents. Because the Proposal documents are available for review by any person following the Proposal opening, and during the Proposal review period, and after an award of a contract resulting from a Request for Proposal, the JCSD shall not in any way be held responsible for disclosure of any “TRADE SECRET,” “CONFIDENTIAL,” or “PROPRIETARY,” documents that are not contained in labeled and sealed envelopes.

X. TERM OF CONTRACT

The initial term of the Contract anticipated in conjunction with this solicitation shall be approximately ninety days, from approximately **June 3, 2024, September 3, 2024.**

XI. ACCEPTANCE AND PAYMENT

The selected Proposer's invoice(s), subsequent to the completion of a valid and binding contract, shall include a specific reference to the Contract Number, the associated PO number, and be accompanied by detailed supporting documentation. The JCSD shall pay the Proposer's properly executed invoices, subject to approval by the JCSD, within thirty (30) days following receipt of the invoice.

XII. CONTRACT EXECUTION(S) / EXCEPTIONS

The selected Proposer shall execute a contract with the JCSD which establishes the terms and conditions covering the services provided. A sample of the JCSD’s standard contract is provided as **EXHIBIT “B”** of this RFP. The executed contract will incorporate this RFP and the Proposer’s proposal. Thus, the Proposer is encouraged to carefully review and consider the sample contract. The Proposer must advise the JCSD of any exceptions to the contract’s content or to the content of the RFP by submitting the attached Exceptions Form with their proposal.

XIII. SCOPE OF WORK

Supplier turnkey disposal services, and responsibilities shall include and be in accordance with the following:

A. ANALYTICAL RESULTS OF SPENT RESIN

Provided as **EXHIBIT “A”** of this RFP.

B. TURNKEY DISPOSAL REQUIREMENTS

Supplier shall dispose nitrate specific ion exchange spent resin, via “bulk” truck loads and/or containers as specified in **EXHIBIT “A”, SPENT RESIN ANALYTICAL RESULTS**. All disposal services supplied under this contract shall be in accordance with industry standards, and

shall comply with all applicable Federal, State, and local rules and regulations in effect at the time of service. Additionally, Supplier shall be required to follow all OSHA, CAL/OSHA, and the Department of Transportation requirements for the transportation and disposal of spent resin. The successful bidder and its agent, including common carriers shall abide by the Department of Transportation rules and regulations.

C. ESTIMATED QUANTITIES

The District has about **4,068 cubic feet** of spent resin (**117** super sacks). The resin is Purolite A400E Type I strong base Anion Resin that was pulled out of Roger Teagarden Ion Exchange Plant vessels.

D. DISPOSAL INSTRUCTIONS

Disposal shall be made within **fourteen calendar days** from receipt of written notice to proceed order from JCSD personnel. Nitrate spent resin super sacks are stored at Roger Teagarden Ion Exchange Plant located at 4150 Etiwanda Avenue, Jurupa Valley CA 91752.

E. LOADING AND UNLOADING

Upon arrival, the Supplier person will report to the JCSD Operations Building and inform available Operations staff of the pending turnkey disposal service. After such notification, a JCSD operator will observe and approve all the loading of each super sack. The Supplier's person shall allow up to 15 minutes between relaying notification and approval by JCSD operators to load the super sack. Procedures for loading and unloading of all shipments shall comply with Cal-OSHA Standards. Loading and unloading of all shipments **SHALL** not commence without a JCSD Operator present. The Supplier's equipment **must** be fully compatible with JCSD facilities and equipment. Removal and loading of the spent resin shall be executed without any spillage of material. **Any** spilled material, however minor, shall immediately be contained and properly removed by the Supplier. Any damage or disfigurement to JCSD property caused by a spill shall be replaced/corrected by the Supplier as soon as possible and solely at the supplier's cost.

F. EMERGENCY TELEPHONE NUMBER

The Supplier shall provide a telephone number(s) where a representative may be contacted 24 hours a day, seven days a week in the event of an emergency.

SUPPLIER IDENTIFICATION FORM

Name of Bidder: _____

Contact Person: _____

Business Mailing Address: _____

_____

Business Street Address: _____

_____

Telephone: ( ) Fax: ( )

_____

Type of Firm (provide completed W9 Form):
☐ Sole Proprietor ☐ Partnership ☐ Corporation ☐ Other _____

If corporation, indicate State where incorporated: _____

Business License number issued by the city where the Proposer's principal place of business is located.

Number: ___ Issuing City: _____

Proposer's Federal Tax Identification Number: _____

Proposer's California DIR Registration Number: _____

Contractor License Number: _____ Type: _____

Emergency Contact Number: _____

Proposer's Contact Office Telephone Number: _____

Proposer's Contact Mobile Telephone Number: _____

Proposer's Account Representative e-mail address: _____

WORKERS' COMPENSATION CERTIFICATE

The Proposer shall execute the following form as required by the California Labor Code, Sections 1860 and 1861:

> I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and on behalf of my firm, I will comply with such provisions before commencing the performance of the work of any Contract entered into by the JCSD.

_____	_____
Signature	Company Name
_____	
Printed Name	
_____	_____
Title	Date

NON-COLLUSION AFFIDAVIT

State of California)
) ss.
County of)

_____, being first duly sworn, deposes and says that he or she is

_____, of ("Proposer") the party making the foregoing proposal, that the proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the proposal is genuine and not collusive or sham; that the Proposer has not directly or indirectly solicited any other Proposer to put in a false or sham proposal, and has not directly or indirectly colluded, conspired, connived, or agreed with any other Proposer or anyone else to put in a sham proposal, or that anyone shall refrain from bidding; that the Proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the proposal fee or the Proposer or any other Proposer, or to fix any overhead, profit, or cost element of the proposal fee, or of that of any other Proposer, or to secure any advantage against the public body awarding the Contract of anyone interested in the proposed Contract; that all statements contained in the proposal are true; and, further, that the Proposer has not, directly or indirectly, submitted his or her proposal fee or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, proposal depository, or to any member or agent thereof to effectuate a collusive or sham proposal.

_____ _____
Signature Company Name

_____ _____
Printed Name Business License Number

_____ _____
Title Date

(Balance of Page intentionally left blank.)

EXCEPTIONS FORM

Should your firm take exception to **ANY** of the terms and conditions provided in the Request for Proposal, submit the following form with your proposal, use additional pages if necessary. If no exception(s) are taken, enter "none" after item number one.

1. Page Number _____ Section Title: _____
   Paragraph Number _____
   Exception Taken: _____

2. Page Number _____ Section Title: _____
   Paragraph Number _____
   Exception Taken: _____

3. Page Number _____ Section Title: _____
   Paragraph Number _____
   Exception Taken: _____

4. Page Number _____ Section Title: _____
   Paragraph Number _____
   Exception Taken: _____

5. Page Number _____ Section Title: _____
   Paragraph Number _____
   Exception Taken: _____

REFERENCES

List a minimum of five (5) references for which similar spent nitrate resin disposal has been supplied.

COMPENSATION AND PAYMENT
FOR DISPOSAL OF SPENT NITRATE RESIN

I. AMOUNT OF COMPENSATION

As consideration for performance of the Work required herein, District agrees to pay Contractor the Total Contract Price of **($) ( )** provided that such amount shall be subject to adjustment pursuant to the applicable terms of this Contract or written change orders approved and signed in advance by the District.

II. PAYMENT OF COMPENSATION

If the Work is scheduled for completion in thirty (30) or less calendar days, District will arrange for payment of the Total Contract Price upon completion and approval by District of the Work. If the Work is scheduled for completion in more than thirty (30) calendar days, District will pay Contractor on a monthly basis as provided for herein. On or before the fifth (5th) day of each month, Contractor shall submit to the District an itemized application for payment in the format supplied by the District indicating the amount of Work completed since commencement of the Work or since the last progress payment. These applications shall be supported by evidence which is required by this Contract and such other documentation as the District may require. The Contractor shall certify that the Work for which payment is requested has been done and that the materials listed are stored where indicated. Contractor may be required to furnish a detailed schedule of values upon request of the District and in such detail and form as the District shall request, showing the quantities, unit prices, overhead, profit, and all other expenses involved in order to provide a basis for determining the amount of progress payments.

III. District shall review and pay all progress payment requests in accordance with the provisions set forth in Section 20104.50 of the California Public Contract Code. No progress payments will be made for Work not completed in accordance with this Contract.

THE UNDERSIGNED AGREES, IF THIS PROPOSAL IS ACCEPTED BY THE JCSD WITHIN 90 CALENDAR DAYS AFTER THE DATE OF PROPOSAL CLOSING, TO PROVIDE THE TURNKEY DISPOSAL SERVICES IN STRICT ACCORDANCE WITH THESE REQUEST FOR PROPOSAL SPECIFICATIONS.

Signature	Company Name
Printed Name	
Title	Date

EXHIBIT “A”, ANALYTICAL RESULTS OF SPENT RESIN
For Jurupa Community Services District (JCSD)

WECK LABORATORIES, INC.

Certificate of Analysis
FINAL REPORT

Work Order 4C21078

Project Name: Analytical Testing
Project Number: CITY OF JURUPA NITRATE SAMPLE
P.O. #:

Report Date: 4/18/2024
Received Date: 3/21/2024 2:35 pm
Turnaround Time: Normal
Billing Code:

Attn: Raymond Farthing
Client: Evoqua Water Technologies - Los Angeles 90021
1441 East Washington Blvd.
Los Angeles, CA 90021

Phones: (213) 748-8511
Fax: (213) 746-7230

Case Narrative

Partial Report: This is a final but incomplete report. Additional partial report(s) or a complete report may be issued to complete the order. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted by qualifiers or written in the Case Narrative. This analytical report and counterpart partial report(s) must be reproduced in its entirety.

Sample Results

Sample: NItrate Resin Sample

4C21078-01 (Solid) Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods							
Method: EPA 160.3M			**Instr:** BAL04				
Batch ID: W4C2192 **Preparation:** _NONE (METALS)			**Prepared:** 03/27/24 16:29				**Analyst:** brh
Moisture	**55.7**		0.100	% w/w	1	03/28/24	
Hydrocarbons by GC or GC/MS							
Method: EPA 8015B			**Instr:** GC04				
Batch ID: W4C2275 **Preparation:** EPA 8015/Micro Ext.			**Prepared:** 03/28/24 12:32				**Analyst:** ALF
Diesel Range Organics (C10-C23)	ND		20	mg/kg	1	04/04/24	O-09
Oil Range Organics (C25-C36)	ND		200	mg/kg	1	04/04/24	O-09
Surrogate(s)							
n-Tetracosane	*96%*		*53-134*	*Conc: 47.7*		*04/04/24*	
Method: EPA 8260B			**Instr:** GCMS17				
Batch ID: W4C2097 **Preparation:** EPA 5030B			**Prepared:** 03/27/24 08:53				**Analyst:** JAN
Gasoline Range Organics (C6-C10)	ND		0.50	mg/kg	1	03/27/24	O-14
Surrogate(s)							
4-Bromofluorobenzene	*78%*		*82-125*	*Conc: 0.0380*		*03/27/24*	*O-14, S-04*
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods							

Sample Results

(Continued)

Sample: NItrate Resin Sample

(Continued)

4C21078-01 (Solid)

Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 6010B			**Instr:** ICP03				
Batch ID: W4C1754 **Preparation:** EPA 3050B			**Prepared:** 03/21/24 15:50				**Analyst:** kvm
Antimony, Total	ND		10	mg/kg	1	04/04/24	
Arsenic, Total	ND		1.0	mg/kg	1	04/04/24	
Barium, Total	ND		2.0	mg/kg	1	04/04/24	
Beryllium, Total	ND		0.50	mg/kg	1	04/04/24	
Cadmium, Total	ND		0.50	mg/kg	1	04/04/24	
Chromium, Total	**1.3**		1.0	mg/kg	1	04/04/24	
Cobalt, Total	**1.1**		1.0	mg/kg	1	04/04/24	
Copper, Total	ND		5.0	mg/kg	1	04/04/24	
Lead, Total	ND		1.0	mg/kg	1	04/04/24	
Molybdenum, Total	ND		5.0	mg/kg	1	04/04/24	
Nickel, Total	ND		2.0	mg/kg	1	04/04/24	
Selenium, Total	ND		2.0	mg/kg	1	04/04/24	
Silver, Total	ND		2.0	mg/kg	1	04/04/24	
Thallium, Total	ND		3.0	mg/kg	1	04/04/24	
Vanadium, Total	ND		1.0	mg/kg	1	04/04/24	
Zinc, Total	ND		20	mg/kg	1	04/04/24	
Method: EPA 6020			**Instr:** ICPMS08				
Batch ID: W4C1756 **Preparation:** EPA 3050B			**Prepared:** 03/21/24 16:10				**Analyst:** ALN
Uranium, Total	ND		0.50	mg/kg	1	03/27/24	
Method: EPA 6020			**Instr:** ICPMS08				
Batch ID: W4D0153 **Preparation:** EPA 3050B			**Prepared:** 04/02/24 10:42				**Analyst:** ALN
Thorium, Total	ND		5.0	mg/kg	1	04/04/24	
Method: EPA 7471A			**Instr:** HG03				
Batch ID: W4C1929 **Preparation:** EPA 7471A			**Prepared:** 03/25/24 12:22				**Analyst:** KVM
Mercury, Total	**0.062**		0.020	mg/kg	1	04/08/24	O-04

Volatile Organic Compounds by P&T and GC/MS

Method: EPA 8260B			**Instr:** GCMS17				
Batch ID: W4C1904 **Preparation:** EPA 5035			**Prepared:** 03/25/24 10:59				**Analyst:** JAN
1,1,1,2-Tetrachloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,1,1-Trichloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,1,2,2-Tetrachloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,1,2-Trichloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,1-Dichloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,1-Dichloroethene	ND		5.0	ug/kg	1	03/26/24	O-09
1,1-Dichloropropene	ND		5.0	ug/kg	1	03/26/24	O-09

Sample Results

(Continued)

Sample: NItrate Resin Sample

(Continued)

4C21078-01 (Solid)

Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 8260B			**Instr:** GCMS17				
Batch ID: W4C1904 **Preparation:** EPA 5035			**Prepared:** 03/25/24 10:59				**Analyst:** JAN
1,2,3-Trichlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
1,2,3-Trichloropropane	ND		5.0	ug/kg	1	03/26/24	O-09
1,2,4-Trichlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
1,2,4-Trimethylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
1,2-Dibromo-3-chloropropane	ND		5.0	ug/kg	1	03/26/24	O-09
1,2-Dibromoethane (EDB)	ND		5.0	ug/kg	1	03/26/24	O-09
1,2-Dichloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,2-Dichloropropane	ND		5.0	ug/kg	1	03/26/24	O-09
1,3,5-Trimethylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
1,3-Dichloropropane	ND		5.0	ug/kg	1	03/26/24	O-09
2,2-Dichloropropane	ND		5.0	ug/kg	1	03/26/24	O-09
2-Butanone	ND		5.0	ug/kg	1	03/26/24	O-09
2-Chlorotoluene	ND		5.0	ug/kg	1	03/26/24	O-09
2-Hexanone	ND		5.0	ug/kg	1	03/26/24	O-09
4-Chlorotoluene	ND		5.0	ug/kg	1	03/26/24	O-09
4-Methyl-2-pentanone	ND		5.0	ug/kg	1	03/26/24	O-09
Acetone	ND		10	ug/kg	1	03/26/24	O-09
Acrolein	ND		5.0	ug/kg	1	03/26/24	O-09
Acrylonitrile	ND		5.0	ug/kg	1	03/26/24	O-09
Benzene	ND		5.0	ug/kg	1	03/26/24	O-09
Bromobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Bromochloromethane	ND		5.0	ug/kg	1	03/26/24	O-09
Bromodichloromethane	ND		5.0	ug/kg	1	03/26/24	O-09
Bromoform	ND		5.0	ug/kg	1	03/26/24	O-09
Bromomethane	ND		5.0	ug/kg	1	03/26/24	O-09
Carbon tetrachloride	ND		5.0	ug/kg	1	03/26/24	O-09
Chlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Chloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
Chloroform	ND		5.0	ug/kg	1	03/26/24	O-09
Chloromethane	ND		5.0	ug/kg	1	03/26/24	O-09
cis-1,2-Dichloroethene	ND		5.0	ug/kg	1	03/26/24	O-09
cis-1,3-Dichloropropene	ND		5.0	ug/kg	1	03/26/24	O-09
Dibromochloromethane	ND		5.0	ug/kg	1	03/26/24	O-09
Dibromomethane	ND		5.0	ug/kg	1	03/26/24	O-09
Dichlorodifluoromethane (Freon 12)	ND		5.0	ug/kg	1	03/26/24	O-09
Ethylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Hexachlorobutadiene	ND		5.0	ug/kg	1	03/26/24	O-09
Isopropylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09

Sample Results

(Continued)

Sample: NItrate Resin Sample

(Continued)

4C21078-01 (Solid)

Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 8260B			**Instr:** GCMS17				
Batch ID: W4C1904 **Preparation:** EPA 5035			**Prepared:** 03/25/24 10:59				**Analyst:** JAN
m,p-Xylene	ND		5.0	ug/kg	1	03/26/24	O-09
m-Dichlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Methyl tert-butyl ether (MTBE)	ND		5.0	ug/kg	1	03/26/24	O-09
Methylene chloride	**8.2**		5.0	ug/kg	1	03/26/24	O-09
Naphthalene	ND		5.0	ug/kg	1	03/26/24	O-09
n-Butylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
n-Propylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
o-Dichlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
o-Xylene	ND		5.0	ug/kg	1	03/26/24	O-09
p-Dichlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
p-Isopropyltoluene	ND		5.0	ug/kg	1	03/26/24	O-09
sec-Butylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Styrene	ND		5.0	ug/kg	1	03/26/24	O-09
tert-Butylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Tetrachloroethene	ND		5.0	ug/kg	1	03/26/24	O-09
Toluene	ND		5.0	ug/kg	1	03/26/24	O-09
trans-1,2-Dichloroethene	ND		5.0	ug/kg	1	03/26/24	O-09
trans-1,3-Dichloropropene	ND		5.0	ug/kg	1	03/26/24	O-09
Trichloroethene	ND		5.0	ug/kg	1	03/26/24	O-09
Trichlorofluoromethane	ND		5.0	ug/kg	1	03/26/24	O-09
Vinyl chloride	ND		5.0	ug/kg	1	03/26/24	O-09
Surrogate(s)							
1,2-Dichloroethane-d4	*101%*		*78-140*	*Conc: 49.5*		*03/26/24*	
4-Bromofluorobenzene	*97%*		*85-116*	*Conc: 47.7*		*03/26/24*	
Dibromofluoromethane	*108%*		*84-120*	*Conc: 52.9*		*03/26/24*	
Toluene-d8	*96%*		*82-120*	*Conc: 47.2*		*03/26/24*	

Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2192 - _NONE (METALS)										
Duplicate (W4C2192-DUP1)	Source: 4C20133-02		Prepared: 03/27/24		Analyzed: 03/28/24					
Moisture	68.6	0.100	% w/w		*69.3*			1	20	

Hydrocarbons by GC or GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2097 - EPA 5030B										
Blank (W4C2097-BLK1)			Prepared & Analyzed: 03/27/24							
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg							
Surrogate(s)										
4-Bromofluorobenzene	*0.0494*		*mg/kg*	*0.0500*		*99*	*82-125*			
LCS (W4C2097-BS1)			Prepared & Analyzed: 03/27/24							
Gasoline Range Organics (C6-C10)	1.05	0.50	mg/kg	1.00		105	53-136			
Surrogate(s)										
4-Bromofluorobenzene	*0.0523*		*mg/kg*	*0.0500*		*105*	*82-125*			
LCS Dup (W4C2097-BSD1)			Prepared & Analyzed: 03/27/24							
Gasoline Range Organics (C6-C10)	1.03	0.50	mg/kg	1.00		103	53-136	2	25	
Surrogate(s)										
4-Bromofluorobenzene	*0.0505*		*mg/kg*	*0.0500*		*101*	*82-125*			
Batch: W4C2275 - EPA 8015/Micro Ext.										
Blank (W4C2275-BLK1)			Prepared: 03/28/24		Analyzed: 04/03/24					
Diesel Range Organics (C10-C23)	ND	10	mg/kg							
Oil Range Organics (C25-C36)	ND	100	mg/kg							
Surrogate(s)										
n-Tetracosane	*24.9*		*mg/kg*	*25.0*		*100*	*53-134*			
LCS (W4C2275-BS1)			Prepared: 03/28/24		Analyzed: 04/04/24					
Diesel Range Organics (C10-C23)	40.2	10	mg/kg	50.0		80	70-130			
Surrogate(s)										
n-Tetracosane	*23.5*		*mg/kg*	*25.0*		*94*	*53-134*			
Matrix Spike (W4C2275-MS1)	Source: 4C22033-01		Prepared: 03/28/24		Analyzed: 04/04/24					
Diesel Range Organics (C10-C23)	84.8	20	mg/kg	99.2	*ND*	85	42-121			
Surrogate(s)										
n-Tetracosane	*49.0*		*mg/kg*	*49.6*		*99*	*53-134*			
Matrix Spike Dup (W4C2275-MSD1)	Source: 4C22033-01		Prepared: 03/28/24		Analyzed: 04/04/24					

Quality Control Results

(Continued)

Hydrocarbons by GC or GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2275 - EPA 8015/Micro Ext. (Continued)										
Matrix Spike Dup (W4C2275-MSD1)	Source: 4C22033-01		Prepared: 03/28/24		Analyzed: 04/04/24					
Diesel Range Organics (C10-C23)	82.9	20	mg/kg	98.6	*ND*	84	42-121	2	25	
Surrogate(s)										
n-Tetracosane	*48.1*		*mg/kg*	*49.3*		*98*	*53-134*			

Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1754 - EPA 3050B										
Blank (W4C1754-BLK1)			Prepared: 03/21/24 Analyzed: 04/04/24							
Antimony, Total	ND	10	mg/kg							
Arsenic, Total	ND	1.0	mg/kg							
Barium, Total	ND	2.0	mg/kg							
Beryllium, Total	ND	0.50	mg/kg							
Cadmium, Total	ND	0.50	mg/kg							
Chromium, Total	ND	1.0	mg/kg							
Cobalt, Total	ND	1.0	mg/kg							
Copper, Total	ND	5.0	mg/kg							
Lead, Total	ND	1.0	mg/kg							
Molybdenum, Total	ND	5.0	mg/kg							
Nickel, Total	ND	2.0	mg/kg							
Selenium, Total	ND	2.0	mg/kg							
Silver, Total	ND	2.0	mg/kg							
Thallium, Total	ND	3.0	mg/kg							
Vanadium, Total	ND	1.0	mg/kg							
Zinc, Total	ND	20	mg/kg							
LCS (W4C1754-BS1)			Prepared: 03/21/24 Analyzed: 04/04/24							
Antimony, Total	50.0	10	mg/kg	49.6		101	80-120			
Arsenic, Total	50.0	1.0	mg/kg	49.6		101	80-125			
Barium, Total	52.3	2.0	mg/kg	49.6		106	80-125			
Beryllium, Total	51.9	0.50	mg/kg	49.6		105	80-120			
Cadmium, Total	49.6	0.50	mg/kg	49.6		100	80-120			
Chromium, Total	51.3	1.0	mg/kg	49.6		103	80-120			
Cobalt, Total	48.5	1.0	mg/kg	49.6		98	80-120			
Copper, Total	53.2	5.0	mg/kg	49.6		107	80-120			
Lead, Total	50.0	1.0	mg/kg	49.6		101	80-120			
Molybdenum, Total	51.5	5.0	mg/kg	49.6		104	80-120			
Nickel, Total	51.1	2.0	mg/kg	49.6		103	80-120			
Selenium, Total	46.8	2.0	mg/kg	49.6		94	80-120			
Silver, Total	52.2	2.0	mg/kg	49.6		105	80-125			
Thallium, Total	50.5	3.0	mg/kg	49.6		102	80-120			
Vanadium, Total	53.9	1.0	mg/kg	49.6		109	80-120			
Zinc, Total	49.2	20	mg/kg	49.6		99	80-120			
Matrix Spike (W4C1754-MS1)	Source: 4C21078-01		Prepared: 03/21/24 Analyzed: 04/04/24							
Antimony, Total	32.6	10	mg/kg	49.9	*ND*	65	75-125			MS-01
Arsenic, Total	49.4	1.0	mg/kg	49.9	*ND*	99	75-125			
Barium, Total	51.5	2.0	mg/kg	49.9	*ND*	103	75-125			

Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1754 - EPA 3050B (Continued)										
Matrix Spike (W4C1754-MS1)	Source: 4C21078-01		Prepared: 03/21/24		Analyzed: 04/04/24					
Beryllium, Total	50.2	0.50	mg/kg	49.9	*ND*	101	75-125			
Cadmium, Total	47.3	0.50	mg/kg	49.9	*ND*	95	75-125			
Chromium, Total	51.0	1.0	mg/kg	49.9	*1.26*	100	75-125			
Cobalt, Total	48.6	1.0	mg/kg	49.9	*1.14*	95	75-125			
Copper, Total	53.3	5.0	mg/kg	49.9	*ND*	107	75-125			
Lead, Total	47.9	1.0	mg/kg	49.9	*ND*	96	75-125			
Molybdenum, Total	49.3	5.0	mg/kg	49.9	*ND*	99	75-125			
Nickel, Total	50.0	2.0	mg/kg	49.9	*ND*	100	75-125			
Selenium, Total	46.9	2.0	mg/kg	49.9	*0.827*	92	75-125			
Silver, Total	49.5	2.0	mg/kg	49.9	*ND*	99	75-125			
Thallium, Total	25.6	3.0	mg/kg	49.9	*ND*	51	75-125			MS-01
Vanadium, Total	53.4	1.0	mg/kg	49.9	*0.677*	106	75-125			
Zinc, Total	48.5	20	mg/kg	49.9	*ND*	97	75-125			
Matrix Spike Dup (W4C1754-MSD1)	Source: 4C21078-01		Prepared: 03/21/24		Analyzed: 04/04/24					
Antimony, Total	35.6	10	mg/kg	49.5	*ND*	72	75-125	9	20	MS-01
Arsenic, Total	49.5	1.0	mg/kg	49.5	*ND*	100	75-125	0.2	20	
Barium, Total	51.9	2.0	mg/kg	49.5	*ND*	105	75-125	0.8	20	
Beryllium, Total	50.4	0.50	mg/kg	49.5	*ND*	102	75-125	0.3	20	
Cadmium, Total	47.6	0.50	mg/kg	49.5	*ND*	96	75-125	0.6	20	
Chromium, Total	51.0	1.0	mg/kg	49.5	*1.26*	101	75-125	0.02	20	
Cobalt, Total	48.5	1.0	mg/kg	49.5	*1.14*	96	75-125	0.3	20	
Copper, Total	53.5	5.0	mg/kg	49.5	*ND*	108	75-125	0.4	20	
Lead, Total	48.5	1.0	mg/kg	49.5	*ND*	98	75-125	1	20	
Molybdenum, Total	49.9	5.0	mg/kg	49.5	*ND*	101	75-125	1	20	
Nickel, Total	49.9	2.0	mg/kg	49.5	*ND*	101	75-125	0.1	20	
Selenium, Total	48.1	2.0	mg/kg	49.5	*0.827*	95	75-125	2	20	
Silver, Total	49.9	2.0	mg/kg	49.5	*ND*	101	75-125	0.7	20	
Thallium, Total	26.2	3.0	mg/kg	49.5	*ND*	53	75-125	2	20	MS-01
Vanadium, Total	53.4	1.0	mg/kg	49.5	*0.677*	107	75-125	0.02	20	
Zinc, Total	48.9	20	mg/kg	49.5	*ND*	99	75-125	0.7	20	
Batch: W4C1756 - EPA 3050B										
Blank (W4C1756-BLK1)			Prepared: 03/21/24		Analyzed: 03/27/24					
Uranium, Total	ND	0.50	mg/kg							
LCS (W4C1756-BS1)			Prepared: 03/21/24		Analyzed: 03/27/24					
Uranium, Total	50.9	0.50	mg/kg				80-120			
Matrix Spike (W4C1756-MS1)	Source: 4B27001-01		Prepared: 03/21/24		Analyzed: 03/27/24					
Uranium, Total	50.8	0.50	mg/kg		*2.74*		75-125			

Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1756 - EPA 3050B (Continued)										
Matrix Spike Dup (W4C1756-MSD1)	Source: 4B27001-01		Prepared: 03/21/24		Analyzed: 03/27/24					
Uranium, Total	51.9	0.45	mg/kg		*2.74*		75-125	2	20	
Batch: W4C1929 - EPA 7471A										
Blank (W4C1929-BLK1)			Prepared: 03/25/24		Analyzed: 04/08/24					
Mercury, Total	ND	0.020	mg/kg							
LCS (W4C1929-BS1)			Prepared: 03/25/24		Analyzed: 04/08/24					
Mercury, Total	0.167	0.020	mg/kg	0.166		101	80-120			
Matrix Spike (W4C1929-MS1)	Source: 4C21078-01		Prepared: 03/25/24		Analyzed: 04/08/24					
Mercury, Total	0.0956	0.020	mg/kg	0.165	*0.0624*	20	47-138			MS-01
Matrix Spike Dup (W4C1929-MSD1)	Source: 4C21078-01		Prepared: 03/25/24		Analyzed: 04/08/24					
Mercury, Total	0.0817	0.020	mg/kg	0.166	*0.0624*	12	47-138	16	20	MS-01
Batch: W4D0153 - EPA 3050B										
Blank (W4D0153-BLK1)			Prepared: 04/02/24		Analyzed: 04/04/24					
Thorium, Total	ND	5.0	mg/kg							
LCS (W4D0153-BS1)			Prepared: 04/02/24		Analyzed: 04/04/24					
Thorium, Total	50.8	5.0	mg/kg	48.0		106	80-120			
Matrix Spike (W4D0153-MS1)	Source: 4C21078-01		Prepared: 04/02/24		Analyzed: 04/04/24					
Thorium, Total	52.4	5.0	mg/kg	49.9	*ND*	105	75-125			
Matrix Spike Dup (W4D0153-MSD1)	Source: 4C21078-01		Prepared: 04/02/24		Analyzed: 04/04/24					
Thorium, Total	53.5	5.0	mg/kg	49.3	*ND*	109	75-125	2	20	

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035										
Blank (W4C1904-BLK1)			Prepared & Analyzed: 03/25/24							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2-Trichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
1,1-Dichloropropene	ND	5.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg							
1,2-Dichloroethane	ND	5.0	ug/kg							
1,2-Dichloropropane	ND	5.0	ug/kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/kg							
1,3-Dichloropropane	ND	5.0	ug/kg							
2,2-Dichloropropane	ND	5.0	ug/kg							
2-Butanone	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
2-Hexanone	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
4-Methyl-2-pentanone	ND	5.0	ug/kg							
Acetone	ND	10	ug/kg							
Acrolein	ND	5.0	ug/kg							
Acrylonitrile	ND	5.0	ug/kg							
Benzene	ND	5.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	5.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	5.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	5.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	5.0	ug/kg							

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035 (Continued)										
Blank (W4C1904-BLK1)			Prepared & Analyzed: 03/25/24							
cis-1,3-Dichloropropene	ND	5.0	ug/kg							
Dibromochloromethane	ND	5.0	ug/kg							
Dibromomethane	ND	5.0	ug/kg							
Dichlorodifluoromethane (Freon 12)	ND	5.0	ug/kg							
Ethylbenzene	ND	5.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	5.0	ug/kg							
m,p-Xylene	ND	5.0	ug/kg							
m-Dichlorobenzene	ND	5.0	ug/kg							
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
n-Propylbenzene	ND	5.0	ug/kg							
o-Dichlorobenzene	ND	5.0	ug/kg							
o-Xylene	ND	5.0	ug/kg							
p-Dichlorobenzene	ND	5.0	ug/kg							
p-Isopropyltoluene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
Styrene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Tetrachloroethene	ND	5.0	ug/kg							
Toluene	ND	5.0	ug/kg							
trans-1,2-Dichloroethene	ND	5.0	ug/kg							
trans-1,3-Dichloropropene	ND	5.0	ug/kg							
Trichloroethene	ND	5.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
Surrogate(s)										
1,2-Dichloroethane-d4	*49.4*		*ug/kg*	*50.0*		*99*	*78-140*			
4-Bromofluorobenzene	*50.4*		*ug/kg*	*50.0*		*101*	*85-116*			
Dibromofluoromethane	*53.5*		*ug/kg*	*50.0*		*107*	*84-120*			
Toluene-d8	*49.7*		*ug/kg*	*50.0*		*99*	*82-120*			
LCS (W4C1904-BS1)			Prepared & Analyzed: 03/25/24							
1,1,1,2-Tetrachloroethane	49.4	5.0	ug/kg	50.0		99	81-120			
1,1,1-Trichloroethane	49.5	5.0	ug/kg	50.0		99	78-125			
1,1,2,2-Tetrachloroethane	46.4	5.0	ug/kg	50.0		93	67-115			

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035 (Continued)										
LCS (W4C1904-BS1)			Prepared & Analyzed: 03/25/24							
1,1,2-Trichloroethane	51.0	5.0	ug/kg	50.0		102	85-121			
1,1-Dichloroethane	49.9	5.0	ug/kg	50.0		100	84-118			
1,1-Dichloroethene	51.1	5.0	ug/kg	50.0		102	80-123			
1,1-Dichloropropene	49.2	5.0	ug/kg	50.0		98	79-128			
1,2,3-Trichlorobenzene	44.5	5.0	ug/kg	50.0		89	36-201			
1,2,3-Trichloropropane	46.6	5.0	ug/kg	50.0		93	65-115			
1,2,4-Trichlorobenzene	45.4	5.0	ug/kg	50.0		91	69-143			
1,2,4-Trimethylbenzene	48.1	5.0	ug/kg	50.0		96	70-119			
1,2-Dibromo-3-chloropropane	45.6	5.0	ug/kg	50.0		91	62-140			
1,2-Dibromoethane (EDB)	47.2	5.0	ug/kg	50.0		94	86-125			
1,2-Dichloroethane	47.7	5.0	ug/kg	50.0		95	74-123			
1,2-Dichloropropane	50.9	5.0	ug/kg	50.0		102	83-122			
1,3,5-Trimethylbenzene	47.6	5.0	ug/kg	50.0		95	66-122			
1,3-Dichloropropane	48.0	5.0	ug/kg	50.0		96	85-122			
2,2-Dichloropropane	52.8	5.0	ug/kg	50.0		106	78-124			
2-Butanone	51.6	5.0	ug/kg	50.0		103	65-139			
2-Chlorotoluene	48.0	5.0	ug/kg	50.0		96	65-118			
2-Hexanone	53.6	5.0	ug/kg	50.0		107	72-138			
4-Chlorotoluene	49.1	5.0	ug/kg	50.0		98	71-116			
4-Methyl-2-pentanone	50.0	5.0	ug/kg	50.0		100	70-133			
Acetone	525	10	ug/kg	500		105	57-138			
Acrolein	53.9	5.0	ug/kg	50.0		108	57-139			
Acrylonitrile	52.2	5.0	ug/kg	50.0		104	78-124			
Benzene	49.9	5.0	ug/kg	50.0		100	83-121			
Bromobenzene	46.7	5.0	ug/kg	50.0		93	67-115			
Bromochloromethane	47.2	5.0	ug/kg	50.0		94	82-117			
Bromodichloromethane	50.0	5.0	ug/kg	50.0		100	78-122			
Bromoform	48.8	5.0	ug/kg	50.0		98	83-125			
Bromomethane	53.7	5.0	ug/kg	50.0		107	58-133			
Carbon tetrachloride	49.6	5.0	ug/kg	50.0		99	79-126			
Chlorobenzene	47.3	5.0	ug/kg	50.0		95	84-118			
Chloroethane	54.3	5.0	ug/kg	50.0		109	58-135			
Chloroform	52.4	5.0	ug/kg	50.0		105	80-123			
Chloromethane	51.1	5.0	ug/kg	50.0		102	58-128			
cis-1,2-Dichloroethene	52.4	5.0	ug/kg	50.0		105	83-120			
cis-1,3-Dichloropropene	46.5	5.0	ug/kg	50.0		93	88-123			
Dibromochloromethane	46.0	5.0	ug/kg	50.0		92	83-124			
Dibromomethane	50.6	5.0	ug/kg	50.0		101	84-123			

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035 (Continued)										
LCS (W4C1904-BS1)				Prepared & Analyzed: 03/25/24						
Dichlorodifluoromethane (Freon 12)	52.9	5.0	ug/kg	50.0		106	67-126			
Ethylbenzene	47.0	5.0	ug/kg	50.0		94	80-120			
Hexachlorobutadiene	49.4	5.0	ug/kg	50.0		99	70-130			
Isopropylbenzene	47.2	5.0	ug/kg	50.0		94	66-122			
m,p-Xylene	46.0	5.0	ug/kg	50.0		92	78-120			
m-Dichlorobenzene	49.9	5.0	ug/kg	50.0		100	75-119			
Methyl tert-butyl ether (MTBE)	206	5.0	ug/kg	200		103	83-122			
Methylene chloride	53.4	5.0	ug/kg	50.0		107	76-118			
Naphthalene	48.2	5.0	ug/kg	50.0		96	42-190			
n-Butylbenzene	47.6	5.0	ug/kg	50.0		95	68-119			
n-Propylbenzene	47.4	5.0	ug/kg	50.0		95	64-120			
o-Dichlorobenzene	51.3	5.0	ug/kg	50.0		103	77-117			
o-Xylene	46.5	5.0	ug/kg	50.0		93	77-126			
p-Dichlorobenzene	48.5	5.0	ug/kg	50.0		97	76-119			
p-Isopropyltoluene	47.1	5.0	ug/kg	50.0		94	70-123			
sec-Butylbenzene	48.8	5.0	ug/kg	50.0		98	67-120			
Styrene	49.1	5.0	ug/kg	50.0		98	84-125			
tert-Butylbenzene	47.3	5.0	ug/kg	50.0		95	70-119			
Tetrachloroethene	47.2	5.0	ug/kg	50.0		94	80-129			
Toluene	52.0	5.0	ug/kg	50.0		104	81-126			
trans-1,2-Dichloroethene	51.1	5.0	ug/kg	50.0		102	82-123			
trans-1,3-Dichloropropene	47.0	5.0	ug/kg	50.0		94	81-131			
Trichloroethene	47.9	5.0	ug/kg	50.0		96	82-118			
Trichlorofluoromethane	49.8	5.0	ug/kg	50.0		100	72-129			
Vinyl chloride	51.0	5.0	ug/kg	50.0		102	63-130			
Surrogate(s)										
1,2-Dichloroethane-d4	*50.9*		*ug/kg*	*50.0*		*102*	*78-140*			
4-Bromofluorobenzene	*51.6*		*ug/kg*	*50.0*		*103*	*85-116*			
Dibromofluoromethane	*53.4*		*ug/kg*	*50.0*		*107*	*84-120*			
Toluene-d8	*52.7*		*ug/kg*	*50.0*		*105*	*82-120*			
LCS Dup (W4C1904-BSD1)				Prepared & Analyzed: 03/25/24						
1,1,1,2-Tetrachloroethane	49.8	5.0	ug/kg	50.0		100	81-120	0.7	25	
1,1,1-Trichloroethane	46.6	5.0	ug/kg	50.0		93	78-125	6	25	
1,1,2,2-Tetrachloroethane	46.5	5.0	ug/kg	50.0		93	67-115	0.2	25	
1,1,2-Trichloroethane	46.9	5.0	ug/kg	50.0		94	85-121	8	25	
1,1-Dichloroethane	46.9	5.0	ug/kg	50.0		94	84-118	6	25	
1,1-Dichloroethene	46.7	5.0	ug/kg	50.0		93	80-123	9	25	

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035 (Continued)										
LCS Dup (W4C1904-BSD1)			Prepared & Analyzed: 03/25/24							
1,1-Dichloropropene	45.9	5.0	ug/kg	50.0		92	79-128	7	25	
1,2,3-Trichlorobenzene	42.6	5.0	ug/kg	50.0		85	36-201	5	25	
1,2,3-Trichloropropane	47.5	5.0	ug/kg	50.0		95	65-115	2	25	
1,2,4-Trichlorobenzene	43.2	5.0	ug/kg	50.0		86	69-143	5	25	
1,2,4-Trimethylbenzene	48.2	5.0	ug/kg	50.0		96	70-119	0.4	25	
1,2-Dibromo-3-chloropropane	47.7	5.0	ug/kg	50.0		95	62-140	4	25	
1,2-Dibromoethane (EDB)	45.4	5.0	ug/kg	50.0		91	86-125	4	25	
1,2-Dichloroethane	44.7	5.0	ug/kg	50.0		89	74-123	6	25	
1,2-Dichloropropane	48.5	5.0	ug/kg	50.0		97	83-122	5	25	
1,3,5-Trimethylbenzene	48.0	5.0	ug/kg	50.0		96	66-122	0.7	25	
1,3-Dichloropropane	45.5	5.0	ug/kg	50.0		91	85-122	5	25	
2,2-Dichloropropane	49.1	5.0	ug/kg	50.0		98	78-124	7	25	
2-Butanone	49.0	5.0	ug/kg	50.0		98	65-139	5	25	
2-Chlorotoluene	48.9	5.0	ug/kg	50.0		98	65-118	2	25	
2-Hexanone	52.6	5.0	ug/kg	50.0		105	72-138	2	25	
4-Chlorotoluene	49.5	5.0	ug/kg	50.0		99	71-116	0.7	25	
4-Methyl-2-pentanone	52.3	5.0	ug/kg	50.0		105	70-133	4	25	
Acetone	486	10	ug/kg	500		97	57-138	8	25	
Acrolein	47.4	5.0	ug/kg	50.0		95	57-139	13	25	
Acrylonitrile	49.6	5.0	ug/kg	50.0		99	78-124	5	25	
Benzene	47.1	5.0	ug/kg	50.0		94	83-121	6	25	
Bromobenzene	47.7	5.0	ug/kg	50.0		95	67-115	2	25	
Bromochloromethane	43.5	5.0	ug/kg	50.0		87	82-117	8	25	
Bromodichloromethane	47.2	5.0	ug/kg	50.0		94	78-122	6	25	
Bromoform	47.1	5.0	ug/kg	50.0		94	83-125	3	25	
Bromomethane	49.7	5.0	ug/kg	50.0		99	58-133	8	25	
Carbon tetrachloride	46.0	5.0	ug/kg	50.0		92	79-126	8	25	
Chlorobenzene	47.0	5.0	ug/kg	50.0		94	84-118	0.6	25	
Chloroethane	53.6	5.0	ug/kg	50.0		107	58-135	1	25	
Chloroform	48.8	5.0	ug/kg	50.0		98	80-123	7	25	
Chloromethane	48.0	5.0	ug/kg	50.0		96	58-128	6	25	
cis-1,2-Dichloroethene	48.8	5.0	ug/kg	50.0		98	83-120	7	25	
cis-1,3-Dichloropropene	44.8	5.0	ug/kg	50.0		90	88-123	4	25	
Dibromochloromethane	43.9	5.0	ug/kg	50.0		88	83-124	5	25	
Dibromomethane	47.2	5.0	ug/kg	50.0		94	84-123	7	25	
Dichlorodifluoromethane (Freon 12)	48.3	5.0	ug/kg	50.0		97	67-126	9	25	
Ethylbenzene	47.5	5.0	ug/kg	50.0		95	80-120	1	25	
Hexachlorobutadiene	45.8	5.0	ug/kg	50.0		92	70-130	8	25	

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035 (Continued)										
LCS Dup (W4C1904-BSD1)			Prepared & Analyzed: 03/25/24							
Isopropylbenzene	47.2	5.0	ug/kg	50.0		94	66-122	0.05	25	
m,p-Xylene	46.2	5.0	ug/kg	50.0		92	78-120	0.3	25	
m-Dichlorobenzene	48.9	5.0	ug/kg	50.0		98	75-119	2	25	
Methyl tert-butyl ether (MTBE)	193	5.0	ug/kg	200		97	83-122	6	25	
Methylene chloride	49.4	5.0	ug/kg	50.0		99	76-118	8	25	
Naphthalene	47.6	5.0	ug/kg	50.0		95	42-190	1	25	
n-Butylbenzene	44.9	5.0	ug/kg	50.0		90	68-119	6	25	
n-Propylbenzene	48.3	5.0	ug/kg	50.0		97	64-120	2	25	
o-Dichlorobenzene	51.7	5.0	ug/kg	50.0		103	77-117	0.7	25	
o-Xylene	46.4	5.0	ug/kg	50.0		93	77-126	0.3	25	
p-Dichlorobenzene	47.2	5.0	ug/kg	50.0		94	76-119	3	25	
p-Isopropyltoluene	46.0	5.0	ug/kg	50.0		92	70-123	2	25	
sec-Butylbenzene	48.5	5.0	ug/kg	50.0		97	67-120	0.7	25	
Styrene	49.3	5.0	ug/kg	50.0		99	84-125	0.5	25	
tert-Butylbenzene	47.9	5.0	ug/kg	50.0		96	70-119	1	25	
Tetrachloroethene	44.5	5.0	ug/kg	50.0		89	80-129	6	25	
Toluene	48.3	5.0	ug/kg	50.0		97	81-126	7	25	
trans-1,2-Dichloroethene	47.7	5.0	ug/kg	50.0		95	82-123	7	25	
trans-1,3-Dichloropropene	45.4	5.0	ug/kg	50.0		91	81-131	3	25	
Trichloroethene	45.3	5.0	ug/kg	50.0		91	82-118	6	25	
Trichlorofluoromethane	46.2	5.0	ug/kg	50.0		92	72-129	7	25	
Vinyl chloride	48.4	5.0	ug/kg	50.0		97	63-130	5	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*47.2*		*ug/kg*	*50.0*		*94*	*78-140*			
4-Bromofluorobenzene	*50.9*		*ug/kg*	*50.0*		*102*	*85-116*			
Dibromofluoromethane	*50.0*		*ug/kg*	*50.0*		*100*	*84-120*			
Toluene-d8	*49.5*		*ug/kg*	*50.0*		*99*	*82-120*			

Notes and Definitions

Item	Definition
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
O-04	This analysis was performed outside the EPA recommended holding time.
O-09	This sample was received with the EPA recommended holding time expired.
O-14	This analysis was requested by the client after the holding time was exceeded.
S-04	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
%REC	Percent Recovery
Dil	Dilution
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Analyses Accreditation

Analyte	CAS #	Not By ELAP-CA	Not By NELAP	Not By ANAB ISO 17025
EPA 160.3M in Solid				
Moisture		⊗	⊗	⊗
EPA 537M in Solid				
FOSA	754-91-6		⊗	
10:2 FTS	108026-35-3		⊗	
PFHxDA	67905-19-5		⊗	
7:3 FTCA	812-70-4		⊗	
3:3 FTCA	356-02-5		⊗	
5:3 FTCA	914637-49-3		⊗	
NFDHA	151772-58-6		⊗	
PFEESA	113507-82-7		⊗	
PFMPA	377-73-1		⊗	
PFMBA	863090-89-5		⊗	

Analyses Accreditation

(Continued)

Analyte	CAS #	Not By ELAP-CA	Not By NELAP	Not By ANAB ISO 17025
EPA 6020 in Solid				
Thorium, Total	7440-29-1	⊗	⊗	⊗
Uranium, Total	7440-61-1	⊗		⊗
EPA 8260B in Solid				
Acrolein	107-02-8	⊗		⊗
Acrylonitrile	107-13-1	⊗		⊗
Acetone	67-64-1	⊗		⊗
2,2-Dichloropropane	594-20-7	⊗		⊗
2-Butanone	78-93-3	⊗		⊗
1,1-Dichloropropene	563-58-6	⊗		⊗
1,3-Dichloropropane	142-28-9			⊗
2-Hexanone	591-78-6	⊗		⊗
Isopropylbenzene	98-82-8	⊗		⊗
2-Chlorotoluene	95-49-8	⊗		⊗
1,3,5-Trimethylbenzene	108-67-8	⊗		⊗
1,2,4-Trimethylbenzene	95-63-6	⊗		⊗
p-Isopropyltoluene	99-87-6	⊗	⊗	⊗
1,2,3-Trichlorobenzene	87-61-6	⊗		⊗
1,3-Dichloropropene, Total	542-75-6	⊗		⊗
EPA 8270C in Solid				
Pyridine	110-86-1	⊗		⊗
Phenol	108-95-2	⊗		⊗
2-Methylphenol	95-48-7	⊗		⊗
Bis(2-chloroisopropyl)ether	108-60-1	⊗	⊗	⊗
3 & 4-Methylphenol		⊗		⊗
Hexachloroethane	67-72-1	⊗		⊗
Isophorone	78-59-1			⊗
1,2,4-Trichlorobenzene	120-82-1	⊗		⊗
Hexachlorobutadiene	87-68-3	⊗		⊗
2-Methylnaphthalene	91-57-6			⊗
Hexachlorocyclopentadiene	77-47-4	⊗		⊗

Analyses Accreditation

(Continued)

Analyte	CAS #	Not By ELAP-CA	Not By NELAP	Not By ANAB ISO 17025
EPA 8270C in Solid (Continued)				
2,4,6-Trichlorophenol	88-06-2	⊗		⊗
2,4,5-Trichlorophenol	95-95-4	⊗		⊗
2,6-Dinitrotoluene	606-20-2		⊗	
4,6-Dinitro-2-methylphenol	534-52-1	⊗	⊗	⊗
Diphenylamine/N-Nitrosodiphenylamine	122-39-4	⊗		⊗
1,2-Diphenylhydrazine/Azobenzene	122-66-7	⊗		⊗
Hexachlorobenzene	118-74-1	⊗		⊗
Phenanthrene	85-01-8			⊗
Carbazole	86-74-8			⊗
Pyrene	129-00-0	⊗		⊗
Bis(2-ethylhexyl)phthalate	117-81-7		⊗	
Indeno (1,2,3-cd) pyrene	193-39-5			⊗
Azobenzene/1,2-Diphenylhydrazine	103-33-3	⊗		⊗
2-Fluorophenol	367-12-4		⊗	⊗
Phenol-d5	4165-62-2			⊗
2-Fluorobiphenyl	321-60-8			⊗
2,4,6-Tribromophenol	118-79-6			⊗
Terphenyl-d14	1718-51-0			⊗

This laboratory report may contain results for target analytes that are not currently certifiable by the California Environmental Laboratory Accreditation Program (ELAP). ELAP is the state agency that accredits environmental testing laboratories in California<https://www.waterboards.ca.gov/drinking_water/certlic/labs/index.html>. ELAP certification is required for laboratories that perform testing for regulatory purposes, such as drinking water, wastewater, hazardous waste, and ambient water<https://www.waterboards.ca.gov/drinking_water/certlic/labs/apply.html>. However, ELAP does not certify all analytes or methods that a laboratory may offer. Therefore, some of the target analytes in this report may not have been tested under ELAP-approved methods or quality control procedures. The results for these analytes are provided for informational purposes only and should not be used for regulatory compliance or decision making. Please contact the laboratory if you have any questions or concerns about the report.

Reviewed by:

Tiffany T. Felix
Project Manager

DoD-ELAP ANAB #ADE-2882 ● DoD-ISO ANAB # ● ELAP-CA #1132 ● EPA-UCMR #CA00211 ● ISO17025 ANAB #L2457.01 ● LACSD #10143 ● NELAP-OR #4047 ● NJ-DEP #CA015 ● NV-DEP #NAC 445A ● SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1964
14859 Clark Avenue : Industry : CA 91745
Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Standard CHAIN OF CUSTODY RECORD

WECK WKO# 4C21078

CLIENT NAME:

PROJECT: CITY OF JURUPA NITRATE SAMPLE

ADDRESS:

PHONE:

FAX:

EMAIL: RAYMOND.FARTHING@XYLEM.COM

PROJECT MANAGER

SAMPLER: CITY OF JURUPA

ID# (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	Cl_2 Y/N	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	VOC's 8260 - 8270	Cam 17 Metals Total	Moisture Percentage	Total Thorium 6020	Total Uranium 6020	Ingrowth EPA 901.1	HSL 300 Actinides	Boro, Carbon, Chrom	PFAS
	2-26-24		DW		Nitrate Resin Sample	2	X	X	X	X	X	X	X	X	X

ANALYSES REQUESTED

SPECIAL HANDLING
- Same Day Rush 150%
- 24 Hour Rush 100%
- 48-72 Hour Rush 75%
- 4 - 5 Day Rush 30%
- Rush Extractions 50%
- 10 - 15 Business Days
- QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS: Sample's Needed Rushed.

informed Raymond F. will not be logging in HSL300 + Ingrowth -TF 03/4/24

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
Raymond Farthing	3/21/24 1435	CSA	3/21/24 1435
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME

SAMPLE CONDITION:
Actual Temperature: T-0 306 25.1°c
Received On Ice: Y / N
Preserved: Y / N
Evidence Seals Present: Y / N
Container Attacked: Y / N
Preserved at Lab: Y / N

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION

COC Version 012707

Page_____ of _____

WECK LABORATORIES, INC.

Sample Receipt Checklist

Weck WKO: **4C21078**
WKO Logged by: Jerico Bolotano
Samples Checked by: Jerico Bolotano

Date/Time Received: 03/21/24 @ 14:35
# of Samples: 01
Delivered by: Client

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	☒	☐		
	COC properly completed?	☒	☐		
	COC matches sample labels?	☒	☐		
	Project Manager notified about COC discrepancy?	☐	☐	☒	
Receipt Information	Sample Temperature	25.1°C			
	Samples received on ice?	☐	☒		
	Ice Type (Blue/Wet)				
	All samples intact?	☒	☐		
	Samples in proper containers?	☒	☐		
	Sufficient sample volume?	☒	☐		
	Samples intact?	☒	☐		
	Received within holding time?	☒	☐		
	Project Manager notified?	☐	☐	☒	
Sample Preservation Verification?	Sample labels checked for correct preservation?	☒	☐	☐	
	VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	☐	☐	☒	☐ <6mm/Pea size?
	pH verified upon receipt? Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2; 6710B<2; 608.3 5-9	☐	☐	☒	pH paper Lot#
	Free Chlorine Tested <0.1 (Organic Analyses)	☐	☐	☒	Cl Test Strip Lot#
	O&G pH <2 verified?	☐	☐	☐	pH paper Lot# / pH Reading:
	pH adjusted for O&G	☐	☐	☐	Acid Lot# / Amt added:
	Project Manager notified about sample preservation?	☐	☐	☒	

PM Comments

Sample Receipt Checklist Prepared by:
Signature: Jerico Bolotano Date: 03/26/24

QAF-006 V1.0 12/16/2021
C:\Users\samplelogin2\Downloads\220726 Sample Receipt Checklist.docx

WECK LABORATORIES, INC.

Certificate of Analysis
SUPPLEMENTAL REPORT

Work Order 4C21078

Project Name: Analytical Testing
Project Number: CITY OF JURUPA NITRATE SAMPLE
P.O. #:

Report Date: 4/24/2024
Received Date: 3/21/2024 2:35 pm
Turnaround Time: Normal
Billing Code:

Attn: Raymond Farthing
Client: Evoqua Water Technologies - Los Angeles 90021
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Los Angeles, CA 90021

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Case Narrative

This is a Supplement to the Certificate of Analysis previously issued 4/18/2024 for the above referenced Project to Raymond Farthing. With this report including all of the analysis as issued on the chain of custody, including 8270 EPA_s BNA and 537M EPA_s PFAS Ext.

Sample Results

Sample: NItrate Resin Sample

4C21078-01 (Solid) Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods							
Method: EPA 160.3M			**Instr:** BAL04				
Batch ID: W4C2192 **Preparation:** _NONE (METALS)			**Prepared:** 03/27/24 16:29				**Analyst:** brh
Moisture	**55.7**		0.100	% w/w	1	03/28/24	
Hydrocarbons by GC or GC/MS							
Method: EPA 8015B			**Instr:** GC04				
Batch ID: W4C2275 **Preparation:** EPA 8015/Micro Ext.			**Prepared:** 03/28/24 12:32				**Analyst:** ALF
Diesel Range Organics (C10-C23)	ND		20	mg/kg	1	04/04/24	O-09
Oil Range Organics (C25-C36)	ND		200	mg/kg	1	04/04/24	O-09
Surrogate(s)							
n-Tetracosane	*96%*		*53-134*	*Conc: 47.7*		*04/04/24*	
Method: EPA 8260B			**Instr:** GCMS17				
Batch ID: W4C2097 **Preparation:** EPA 5030B			**Prepared:** 03/27/24 08:53				**Analyst:** JAN
Gasoline Range Organics (C6-C10)	ND		0.50	mg/kg	1	03/27/24	O-14
Surrogate(s)							
4-Bromofluorobenzene	*78%*		*82-125*	*Conc: 0.0380*		*03/27/24*	*O-14, S-04*
Metals (Non-Aqueous) by EPA 6000/7000 Series Methods							
Method: EPA 6010B			**Instr:** ICP03				

Sample Results

(Continued)

Sample: NItrate Resin Sample

(Continued)

4C21078-01 (Solid)

Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Batch ID: W4C1754 **Preparation:** EPA 3050B			**Prepared:** 03/21/24 15:50				**Analyst:** kvm
Antimony, Total	ND		10	mg/kg	1	04/04/24	
Arsenic, Total	ND		1.0	mg/kg	1	04/04/24	
Barium, Total	ND		2.0	mg/kg	1	04/04/24	
Beryllium, Total	ND		0.50	mg/kg	1	04/04/24	
Cadmium, Total	ND		0.50	mg/kg	1	04/04/24	
Chromium, Total	**1.3**		1.0	mg/kg	1	04/04/24	
Cobalt, Total	**1.1**		1.0	mg/kg	1	04/04/24	
Copper, Total	ND		5.0	mg/kg	1	04/04/24	
Lead, Total	ND		1.0	mg/kg	1	04/04/24	
Molybdenum, Total	ND		5.0	mg/kg	1	04/04/24	
Nickel, Total	ND		2.0	mg/kg	1	04/04/24	
Selenium, Total	ND		2.0	mg/kg	1	04/04/24	
Silver, Total	ND		2.0	mg/kg	1	04/04/24	
Thallium, Total	ND		3.0	mg/kg	1	04/04/24	
Vanadium, Total	ND		1.0	mg/kg	1	04/04/24	
Zinc, Total	ND		20	mg/kg	1	04/04/24	
Method: EPA 6020			**Instr:** ICPMS08				
Batch ID: W4C1756 **Preparation:** EPA 3050B			**Prepared:** 03/21/24 16:10				**Analyst:** ALN
Uranium, Total	ND		0.50	mg/kg	1	03/27/24	
Method: EPA 6020			**Instr:** ICPMS08				
Batch ID: W4D0153 **Preparation:** EPA 3050B			**Prepared:** 04/02/24 10:42				**Analyst:** ALN
Thorium, Total	ND		5.0	mg/kg	1	04/04/24	
Method: EPA 7471A			**Instr:** HG03				
Batch ID: W4C1929 **Preparation:** EPA 7471A			**Prepared:** 03/25/24 12:22				**Analyst:** KVM
Mercury, Total	**0.062**		0.020	mg/kg	1	04/08/24	O-04

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS

Method: EPA 537M			**Instr:** LCMS06				
Batch ID: W4C2326 **Preparation:** EPA 537M			**Prepared:** 03/29/24 09:52				**Analyst:** JNA
11Cl-PF3OUdS	ND		2.5	ug/kg	1	04/09/24	O-09
4:2 FTS	ND		2.5	ug/kg	1	04/09/24	I-05, O-09
6:2 FTS	ND		2.5	ug/kg	1	04/09/24	O-09
8:2 FTS	ND		4.0	ug/kg	1	04/09/24	O-09
9Cl-PF3ONS	ND		2.5	ug/kg	1	04/09/24	O-09
ADONA	ND		2.5	ug/kg	1	04/09/24	I-05, O-09
EtFOSA	ND		2.5	ug/kg	1	04/09/24	O-09
EtFOSAA	ND		2.5	ug/kg	1	04/09/24	O-09

Sample Results

(Continued)

Sample: NItrate Resin Sample

(Continued)

4C21078-01 (Solid)

Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 537M			**Instr:** LCMS06				
Batch ID: W4C2326 **Preparation:** EPA 537M			**Prepared:** 03/29/24 09:52				**Analyst:** JNA
EtFOSE	ND		2.5	ug/kg	1	04/09/24	O-09
FOSA	ND		2.5	ug/kg	1	04/09/24	O-09
HFPO-DA	ND		2.5	ug/kg	1	04/09/24	O-09
MeFOSA	ND		2.5	ug/kg	1	04/09/24	O-09
MeFOSAA	ND		2.5	ug/kg	1	04/09/24	O-09
MeFOSE	ND		2.5	ug/kg	1	04/09/24	O-09
Perfluorooctanoic acid (PFOA)	**83**		2.5	ug/kg	1	04/09/24	O-09
PFBA	ND		2.5	ug/kg	1	04/09/24	O-09
PFBS	**28**		2.5	ug/kg	1	04/09/24	I-05, O-09
PFDA	ND		2.5	ug/kg	1	04/09/24	O-09
PFDoA	ND		2.5	ug/kg	1	04/09/24	O-09
PFDS	ND		2.5	ug/kg	1	04/09/24	O-09
PFHpA	**11**		2.5	ug/kg	1	04/09/24	O-09
PFHpS	**28**		2.5	ug/kg	1	04/09/24	O-09
PFHxA	**7.9**		2.5	ug/kg	1	04/09/24	O-09
PFHxS	**530**		2.5	ug/kg	1	04/09/24	E-01, I-05, O-09
PFNA	**5.6**		2.5	ug/kg	1	04/09/24	O-09
PFNS	ND		2.5	ug/kg	1	04/09/24	O-09
PFOS	**1100**		2.5	ug/kg	1	04/09/24	E-01, I-05, O-09
PFPeA	**3.0**		2.5	ug/kg	1	04/09/24	O-09
PFPeS	**32**		2.5	ug/kg	1	04/09/24	I-05, O-09
PFTeDA	ND		2.5	ug/kg	1	04/09/24	O-09
PFTrDA	ND		2.5	ug/kg	1	04/09/24	O-09
PFUnA	ND		2.5	ug/kg	1	04/09/24	O-09

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C			**Instr:** GCMS06				
Batch ID: W4C2261 **Preparation:** EPA 3546/Microwave			**Prepared:** 03/28/24 11:05				**Analyst:** rmr
1,2,4-Trichlorobenzene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
1,2-Dichlorobenzene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
1,2-Diphenylhydrazine/Azobenzene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
1,3-Dichlorobenzene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
1,4-Dichlorobenzene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2,4,5-Trichlorophenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2,4,6-Trichlorophenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2,4-Dichlorophenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09

Sample Results

(Continued)

Sample: NItrate Resin Sample

(Continued)

4C21078-01 (Solid)

Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 8270C			**Instr:** GCMS06				
Batch ID: W4C2261	**Preparation:** EPA 3546/Microwave		**Prepared:** 03/28/24 11:05				**Analyst:** rmr
2,4-Dimethylphenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2,4-Dinitrophenol	ND		3.6	mg/kg	2	03/30/24	M-04, O-09
2,4-Dinitrotoluene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2,6-Dinitrotoluene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2-Chloronaphthalene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2-Chlorophenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2-Methylnaphthalene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2-Methylphenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2-Nitroaniline	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
2-Nitrophenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
3 & 4-Methylphenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
3,3'-Dichlorobenzidine	ND		3.6	mg/kg	2	03/30/24	M-04, O-09
3-Nitroaniline	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
4,6-Dinitro-2-methylphenol	ND		3.6	mg/kg	2	03/30/24	M-04, O-09
4-Bromophenyl phenyl ether	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
4-Chloro-3-methylphenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
4-Chloroaniline	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
4-Chlorophenyl phenyl ether	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
4-Nitroaniline	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
4-Nitrophenol	ND		3.6	mg/kg	2	03/30/24	M-04, O-09
Acenaphthene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Acenaphthylene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Aniline	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Anthracene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Benzidine	ND		3.6	mg/kg	2	03/30/24	M-04, O-09
Benzo (a) anthracene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Benzo (a) pyrene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Benzo (b) fluoranthene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Benzo (g,h,i) perylene	ND		0.72	mg/kg	2	03/30/24	M-04, O-09
Benzo (k) fluoranthene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Benzoic acid	ND		18	mg/kg	2	03/30/24	M-04, O-09
Benzyl alcohol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Bis(2-chloroethoxy)methane	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Bis(2-chloroethyl)ether	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Bis(2-chloroisopropyl)ether	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Bis(2-ethylhexyl)phthalate	ND		0.72	mg/kg	2	03/30/24	M-04, O-09
Butyl benzyl phthalate	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Carbazole	ND		0.36	mg/kg	2	03/30/24	M-04, O-09

Sample Results

(Continued)

Sample: NItrate Resin Sample

(Continued)

4C21078-01 (Solid)

Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 8270C			**Instr:** GCMS06				
Batch ID: W4C2261 **Preparation:** EPA 3546/Microwave			**Prepared:** 03/28/24 11:05				**Analyst:** rmr
Chrysene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Dibenzo (a,h) anthracene	ND		0.72	mg/kg	2	03/30/24	M-04, O-09
Dibenzofuran	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Diethyl phthalate	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Dimethyl phthalate	ND		0.72	mg/kg	2	03/30/24	M-04, O-09
Di-n-butyl phthalate	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Di-n-octyl phthalate	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Diphenylamine/N-Nitrosodiphenylamine	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Fluoranthene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Fluorene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Hexachlorobenzene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Hexachlorobutadiene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Hexachlorocyclopentadiene	ND		0.72	mg/kg	2	03/30/24	M-04, O-09
Hexachloroethane	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Indeno (1,2,3-cd) pyrene	ND		0.72	mg/kg	2	03/30/24	M-04, O-09
Isophorone	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Naphthalene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Nitrobenzene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
N-Nitrosodimethylamine	**1.0**		0.36	mg/kg	2	03/30/24	M-04, O-09
N-Nitrosodi-n-propylamine	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Pentachlorophenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Phenanthrene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Phenol	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Pyrene	ND		0.36	mg/kg	2	03/30/24	M-04, O-09
Pyridine	ND		0.72	mg/kg	2	03/30/24	M-04, O-09
Surrogate(s)							
2,4,6-Tribromophenol	*59%*		*32-103*	*Conc: 4.25*		*03/30/24*	
2-Fluorobiphenyl	*83%*		*36-107*	*Conc: 2.99*		*03/30/24*	
2-Fluorophenol	*78%*		*33-119*	*Conc: 5.66*		*03/30/24*	
Nitrobenzene-d5	*90%*		*36-114*	*Conc: 3.24*		*03/30/24*	
Phenol-d5	*79%*		*40-118*	*Conc: 5.71*		*03/30/24*	
Terphenyl-d14	*102%*		*40-121*	*Conc: 3.69*		*03/30/24*	

Volatile Organic Compounds by P&T and GC/MS

Method: EPA 8260B **Instr:** GCMS17

Batch ID: W4C1904 **Preparation:** EPA 5035 **Prepared:** 03/25/24 10:59 **Analyst:** JAN

Sample Results

(Continued)

Sample: NItrate Resin Sample

(Continued)

4C21078-01 (Solid)

Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 8260B			**Instr:** GCMS17				
Batch ID: W4C1904 **Preparation:** EPA 5035			**Prepared:** 03/25/24 10:59				**Analyst:** JAN
1,1,1,2-Tetrachloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,1,1-Trichloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,1,2,2-Tetrachloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,1,2-Trichloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,1-Dichloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,1-Dichloroethene	ND		5.0	ug/kg	1	03/26/24	O-09
1,1-Dichloropropene	ND		5.0	ug/kg	1	03/26/24	O-09
1,2,3-Trichlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
1,2,3-Trichloropropane	ND		5.0	ug/kg	1	03/26/24	O-09
1,2,4-Trichlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
1,2,4-Trimethylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
1,2-Dibromo-3-chloropropane	ND		5.0	ug/kg	1	03/26/24	O-09
1,2-Dibromoethane (EDB)	ND		5.0	ug/kg	1	03/26/24	O-09
1,2-Dichloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
1,2-Dichloropropane	ND		5.0	ug/kg	1	03/26/24	O-09
1,3,5-Trimethylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
1,3-Dichloropropane	ND		5.0	ug/kg	1	03/26/24	O-09
2,2-Dichloropropane	ND		5.0	ug/kg	1	03/26/24	O-09
2-Butanone	ND		5.0	ug/kg	1	03/26/24	O-09
2-Chlorotoluene	ND		5.0	ug/kg	1	03/26/24	O-09
2-Hexanone	ND		5.0	ug/kg	1	03/26/24	O-09
4-Chlorotoluene	ND		5.0	ug/kg	1	03/26/24	O-09
4-Methyl-2-pentanone	ND		5.0	ug/kg	1	03/26/24	O-09
Acetone	ND		10	ug/kg	1	03/26/24	O-09
Acrolein	ND		5.0	ug/kg	1	03/26/24	O-09
Acrylonitrile	ND		5.0	ug/kg	1	03/26/24	O-09
Benzene	ND		5.0	ug/kg	1	03/26/24	O-09
Bromobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Bromochloromethane	ND		5.0	ug/kg	1	03/26/24	O-09
Bromodichloromethane	ND		5.0	ug/kg	1	03/26/24	O-09
Bromoform	ND		5.0	ug/kg	1	03/26/24	O-09
Bromomethane	ND		5.0	ug/kg	1	03/26/24	O-09
Carbon tetrachloride	ND		5.0	ug/kg	1	03/26/24	O-09
Chlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Chloroethane	ND		5.0	ug/kg	1	03/26/24	O-09
Chloroform	ND		5.0	ug/kg	1	03/26/24	O-09
Chloromethane	ND		5.0	ug/kg	1	03/26/24	O-09
cis-1,2-Dichloroethene	ND		5.0	ug/kg	1	03/26/24	O-09

Sample Results

(Continued)

Sample: NItrate Resin Sample

(Continued)

4C21078-01 (Solid)

Sampled: 02/26/24 0:00 by City of Jurupa

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 8260B			**Instr:** GCMS17				
Batch ID: W4C1904 **Preparation:** EPA 5035			**Prepared:** 03/25/24 10:59				**Analyst:** JAN
cis-1,3-Dichloropropene	ND		5.0	ug/kg	1	03/26/24	O-09
Dibromochloromethane	ND		5.0	ug/kg	1	03/26/24	O-09
Dibromomethane	ND		5.0	ug/kg	1	03/26/24	O-09
Dichlorodifluoromethane (Freon 12)	ND		5.0	ug/kg	1	03/26/24	O-09
Ethylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Hexachlorobutadiene	ND		5.0	ug/kg	1	03/26/24	O-09
Isopropylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
m,p-Xylene	ND		5.0	ug/kg	1	03/26/24	O-09
m-Dichlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Methyl tert-butyl ether (MTBE)	ND		5.0	ug/kg	1	03/26/24	O-09
Methylene chloride	**8.2**		5.0	ug/kg	1	03/26/24	O-09
Naphthalene	ND		5.0	ug/kg	1	03/26/24	O-09
n-Butylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
n-Propylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
o-Dichlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
o-Xylene	ND		5.0	ug/kg	1	03/26/24	O-09
p-Dichlorobenzene	ND		5.0	ug/kg	1	03/26/24	O-09
p-Isopropyltoluene	ND		5.0	ug/kg	1	03/26/24	O-09
sec-Butylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Styrene	ND		5.0	ug/kg	1	03/26/24	O-09
tert-Butylbenzene	ND		5.0	ug/kg	1	03/26/24	O-09
Tetrachloroethene	ND		5.0	ug/kg	1	03/26/24	O-09
Toluene	ND		5.0	ug/kg	1	03/26/24	O-09
trans-1,2-Dichloroethene	ND		5.0	ug/kg	1	03/26/24	O-09
trans-1,3-Dichloropropene	ND		5.0	ug/kg	1	03/26/24	O-09
Trichloroethene	ND		5.0	ug/kg	1	03/26/24	O-09
Trichlorofluoromethane	ND		5.0	ug/kg	1	03/26/24	O-09
Vinyl chloride	ND		5.0	ug/kg	1	03/26/24	O-09
Surrogate(s)							
1,2-Dichloroethane-d4	*101%*		*78-140*	*Conc: 49.5*		*03/26/24*	
4-Bromofluorobenzene	*97%*		*85-116*	*Conc: 47.7*		*03/26/24*	
Dibromofluoromethane	*108%*		*84-120*	*Conc: 52.9*		*03/26/24*	
Toluene-d8	*96%*		*82-120*	*Conc: 47.2*		*03/26/24*	

Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2192 - _NONE (METALS)										
Duplicate (W4C2192-DUP1)	Source: 4C20133-02		Prepared: 03/27/24		Analyzed: 03/28/24					
Moisture	68.6	0.100	% w/w		*69.3*			1	20	

Hydrocarbons by GC or GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2097 - EPA 5030B										
Blank (W4C2097-BLK1)			Prepared & Analyzed: 03/27/24							
Gasoline Range Organics (C6-C10)	ND	0.50	mg/kg							
Surrogate(s)										
4-Bromofluorobenzene	*0.0494*		*mg/kg*	*0.0500*		*99*	*82-125*			
LCS (W4C2097-BS1)			Prepared & Analyzed: 03/27/24							
Gasoline Range Organics (C6-C10)	1.05	0.50	mg/kg	1.00		105	53-136			
Surrogate(s)										
4-Bromofluorobenzene	*0.0523*		*mg/kg*	*0.0500*		*105*	*82-125*			
LCS Dup (W4C2097-BSD1)			Prepared & Analyzed: 03/27/24							
Gasoline Range Organics (C6-C10)	1.03	0.50	mg/kg	1.00		103	53-136	2	25	
Surrogate(s)										
4-Bromofluorobenzene	*0.0505*		*mg/kg*	*0.0500*		*101*	*82-125*			
Batch: W4C2275 - EPA 8015/Micro Ext.										
Blank (W4C2275-BLK1)			Prepared: 03/28/24		Analyzed: 04/03/24					
Diesel Range Organics (C10-C23)	ND	10	mg/kg							
Oil Range Organics (C25-C36)	ND	100	mg/kg							
Surrogate(s)										
n-Tetracosane	*24.9*		*mg/kg*	*25.0*		*100*	*53-134*			
LCS (W4C2275-BS1)			Prepared: 03/28/24		Analyzed: 04/04/24					
Diesel Range Organics (C10-C23)	40.2	10	mg/kg	50.0		80	70-130			
Surrogate(s)										
n-Tetracosane	*23.5*		*mg/kg*	*25.0*		*94*	*53-134*			
Matrix Spike (W4C2275-MS1)	Source: 4C22033-01		Prepared: 03/28/24		Analyzed: 04/04/24					
Diesel Range Organics (C10-C23)	84.8	20	mg/kg	99.2	*ND*	85	42-121			
Surrogate(s)										
n-Tetracosane	*49.0*		*mg/kg*	*49.6*		*99*	*53-134*			
Matrix Spike Dup (W4C2275-MSD1)	Source: 4C22033-01		Prepared: 03/28/24		Analyzed: 04/04/24					

Quality Control Results

(Continued)

Hydrocarbons by GC or GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2275 - EPA 8015/Micro Ext. (Continued)										
Matrix Spike Dup (W4C2275-MSD1)	Source: 4C22033-01			Prepared: 03/28/24	Analyzed: 04/04/24					
Diesel Range Organics (C10-C23)	82.9	20	mg/kg	98.6	*ND*	84	42-121	2	25	
Surrogate(s)										
n-Tetracosane	*48.1*		*mg/kg*	*49.3*		*98*	*53-134*			

Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1754 - EPA 3050B										
Blank (W4C1754-BLK1)			Prepared: 03/21/24 Analyzed: 04/04/24							
Antimony, Total	ND	10	mg/kg							
Arsenic, Total	ND	1.0	mg/kg							
Barium, Total	ND	2.0	mg/kg							
Beryllium, Total	ND	0.50	mg/kg							
Cadmium, Total	ND	0.50	mg/kg							
Chromium, Total	ND	1.0	mg/kg							
Cobalt, Total	ND	1.0	mg/kg							
Copper, Total	ND	5.0	mg/kg							
Lead, Total	ND	1.0	mg/kg							
Molybdenum, Total	ND	5.0	mg/kg							
Nickel, Total	ND	2.0	mg/kg							
Selenium, Total	ND	2.0	mg/kg							
Silver, Total	ND	2.0	mg/kg							
Thallium, Total	ND	3.0	mg/kg							
Vanadium, Total	ND	1.0	mg/kg							
Zinc, Total	ND	20	mg/kg							
LCS (W4C1754-BS1)			Prepared: 03/21/24 Analyzed: 04/04/24							
Antimony, Total	50.0	10	mg/kg	49.6		101	80-120			
Arsenic, Total	50.0	1.0	mg/kg	49.6		101	80-125			
Barium, Total	52.3	2.0	mg/kg	49.6		106	80-125			
Beryllium, Total	51.9	0.50	mg/kg	49.6		105	80-120			
Cadmium, Total	49.6	0.50	mg/kg	49.6		100	80-120			
Chromium, Total	51.3	1.0	mg/kg	49.6		103	80-120			
Cobalt, Total	48.5	1.0	mg/kg	49.6		98	80-120			
Copper, Total	53.2	5.0	mg/kg	49.6		107	80-120			
Lead, Total	50.0	1.0	mg/kg	49.6		101	80-120			
Molybdenum, Total	51.5	5.0	mg/kg	49.6		104	80-120			
Nickel, Total	51.1	2.0	mg/kg	49.6		103	80-120			
Selenium, Total	46.8	2.0	mg/kg	49.6		94	80-120			
Silver, Total	52.2	2.0	mg/kg	49.6		105	80-125			
Thallium, Total	50.5	3.0	mg/kg	49.6		102	80-120			
Vanadium, Total	53.9	1.0	mg/kg	49.6		109	80-120			
Zinc, Total	49.2	20	mg/kg	49.6		99	80-120			
Matrix Spike (W4C1754-MS1)	Source: 4C21078-01		Prepared: 03/21/24 Analyzed: 04/04/24							
Antimony, Total	32.6	10	mg/kg	49.9	*ND*	65	75-125			MS-01
Arsenic, Total	49.4	1.0	mg/kg	49.9	*ND*	99	75-125			
Barium, Total	51.5	2.0	mg/kg	49.9	*ND*	103	75-125			

Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1754 - EPA 3050B (Continued)										
Matrix Spike (W4C1754-MS1)	Source: 4C21078-01		Prepared: 03/21/24		Analyzed: 04/04/24					
Beryllium, Total	50.2	0.50	mg/kg	49.9	*ND*	101	75-125			
Cadmium, Total	47.3	0.50	mg/kg	49.9	*ND*	95	75-125			
Chromium, Total	51.0	1.0	mg/kg	49.9	*1.26*	100	75-125			
Cobalt, Total	48.6	1.0	mg/kg	49.9	*1.14*	95	75-125			
Copper, Total	53.3	5.0	mg/kg	49.9	*ND*	107	75-125			
Lead, Total	47.9	1.0	mg/kg	49.9	*ND*	96	75-125			
Molybdenum, Total	49.3	5.0	mg/kg	49.9	*ND*	99	75-125			
Nickel, Total	50.0	2.0	mg/kg	49.9	*ND*	100	75-125			
Selenium, Total	46.9	2.0	mg/kg	49.9	*0.827*	92	75-125			
Silver, Total	49.5	2.0	mg/kg	49.9	*ND*	99	75-125			
Thallium, Total	25.6	3.0	mg/kg	49.9	*ND*	51	75-125			MS-01
Vanadium, Total	53.4	1.0	mg/kg	49.9	*0.677*	106	75-125			
Zinc, Total	48.5	20	mg/kg	49.9	*ND*	97	75-125			
Matrix Spike Dup (W4C1754-MSD1)	Source: 4C21078-01		Prepared: 03/21/24		Analyzed: 04/04/24					
Antimony, Total	35.6	10	mg/kg	49.5	*ND*	72	75-125	9	20	MS-01
Arsenic, Total	49.5	1.0	mg/kg	49.5	*ND*	100	75-125	0.2	20	
Barium, Total	51.9	2.0	mg/kg	49.5	*ND*	105	75-125	0.8	20	
Beryllium, Total	50.4	0.50	mg/kg	49.5	*ND*	102	75-125	0.3	20	
Cadmium, Total	47.6	0.50	mg/kg	49.5	*ND*	96	75-125	0.6	20	
Chromium, Total	51.0	1.0	mg/kg	49.5	*1.26*	101	75-125	0.02	20	
Cobalt, Total	48.5	1.0	mg/kg	49.5	*1.14*	96	75-125	0.3	20	
Copper, Total	53.5	5.0	mg/kg	49.5	*ND*	108	75-125	0.4	20	
Lead, Total	48.5	1.0	mg/kg	49.5	*ND*	98	75-125	1	20	
Molybdenum, Total	49.9	5.0	mg/kg	49.5	*ND*	101	75-125	1	20	
Nickel, Total	49.9	2.0	mg/kg	49.5	*ND*	101	75-125	0.1	20	
Selenium, Total	48.1	2.0	mg/kg	49.5	*0.827*	95	75-125	2	20	
Silver, Total	49.9	2.0	mg/kg	49.5	*ND*	101	75-125	0.7	20	
Thallium, Total	26.2	3.0	mg/kg	49.5	*ND*	53	75-125	2	20	MS-01
Vanadium, Total	53.4	1.0	mg/kg	49.5	*0.677*	107	75-125	0.02	20	
Zinc, Total	48.9	20	mg/kg	49.5	*ND*	99	75-125	0.7	20	
Batch: W4C1756 - EPA 3050B										
Blank (W4C1756-BLK1)			Prepared: 03/21/24		Analyzed: 03/27/24					
Uranium, Total	ND	0.50	mg/kg							
LCS (W4C1756-BS1)			Prepared: 03/21/24		Analyzed: 03/27/24					
Uranium, Total	50.9	0.50	mg/kg				80-120			
Matrix Spike (W4C1756-MS1)	Source: 4B27001-01		Prepared: 03/21/24		Analyzed: 03/27/24					
Uranium, Total	50.8	0.50	mg/kg		*2.74*		75-125			

Quality Control Results

(Continued)

Metals (Non-Aqueous) by EPA 6000/7000 Series Methods (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1756 - EPA 3050B (Continued)										
Matrix Spike Dup (W4C1756-MSD1)	Source: 4B27001-01		Prepared: 03/21/24		Analyzed: 03/27/24					
Uranium, Total	51.9	0.45	mg/kg		*2.74*		75-125	2	20	
Batch: W4C1929 - EPA 7471A										
Blank (W4C1929-BLK1)			Prepared: 03/25/24		Analyzed: 04/08/24					
Mercury, Total	ND	0.020	mg/kg							
LCS (W4C1929-BS1)			Prepared: 03/25/24		Analyzed: 04/08/24					
Mercury, Total	0.167	0.020	mg/kg	0.166		101	80-120			
Matrix Spike (W4C1929-MS1)	Source: 4C21078-01		Prepared: 03/25/24		Analyzed: 04/08/24					
Mercury, Total	0.0956	0.020	mg/kg	0.165	*0.0624*	20	47-138			MS-01
Matrix Spike Dup (W4C1929-MSD1)	Source: 4C21078-01		Prepared: 03/25/24		Analyzed: 04/08/24					
Mercury, Total	0.0817	0.020	mg/kg	0.166	*0.0624*	12	47-138	16	20	MS-01
Batch: W4D0153 - EPA 3050B										
Blank (W4D0153-BLK1)			Prepared: 04/02/24		Analyzed: 04/04/24					
Thorium, Total	ND	5.0	mg/kg							
LCS (W4D0153-BS1)			Prepared: 04/02/24		Analyzed: 04/04/24					
Thorium, Total	50.8	5.0	mg/kg	48.0		106	80-120			
Matrix Spike (W4D0153-MS1)	Source: 4C21078-01		Prepared: 04/02/24		Analyzed: 04/04/24					
Thorium, Total	52.4	5.0	mg/kg	49.9	*ND*	105	75-125			
Matrix Spike Dup (W4D0153-MSD1)	Source: 4C21078-01		Prepared: 04/02/24		Analyzed: 04/04/24					
Thorium, Total	53.5	5.0	mg/kg	49.3	*ND*	109	75-125	2	20	

Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2326 - EPA 537M										
Blank (W4C2326-BLK1)			Prepared: 03/29/24 Analyzed: 04/09/24							
11Cl-PF3OUdS	ND	2.5	ug/kg							
4:2 FTS	ND	2.5	ug/kg							
6:2 FTS	ND	2.5	ug/kg							
8:2 FTS	ND	4.0	ug/kg							
9Cl-PF3ONS	ND	2.5	ug/kg							
ADONA	ND	2.5	ug/kg							
EtFOSA	ND	2.5	ug/kg							
EtFOSAA	ND	2.5	ug/kg							
EtFOSE	ND	2.5	ug/kg							
FOSA	ND	2.5	ug/kg							
HFPO-DA	ND	2.5	ug/kg							
MeFOSA	ND	2.5	ug/kg							
MeFOSAA	ND	2.5	ug/kg							
MeFOSE	ND	2.5	ug/kg							
Perfluorooctanoic acid (PFOA)	ND	2.5	ug/kg							
PFBA	ND	2.5	ug/kg							
PFBS	ND	2.5	ug/kg							
PFDA	ND	2.5	ug/kg							
PFDoA	ND	2.5	ug/kg							
PFDS	ND	2.5	ug/kg							
PFHpA	ND	2.5	ug/kg							
PFHpS	ND	2.5	ug/kg							
PFHxA	ND	2.5	ug/kg							
PFHxS	ND	2.5	ug/kg							
PFNA	ND	2.5	ug/kg							
PFNS	ND	2.5	ug/kg							
PFOS	ND	2.5	ug/kg							
PFPeA	ND	2.5	ug/kg							
PFPeS	ND	2.5	ug/kg							
PFTeDA	ND	2.5	ug/kg							
PFTrDA	ND	2.5	ug/kg							
PFUnA	ND	2.5	ug/kg							
LCS (W4C2326-BS1)			Prepared: 03/29/24 Analyzed: 04/09/24							
11Cl-PF3OUdS	2.18	2.5	ug/kg	2.50		87	70-130			
4:2 FTS	2.45	2.5	ug/kg	2.50		98	62-145			
6:2 FTS	2.16	2.5	ug/kg	2.50		86	64-140			
8:2 FTS	2.63	4.0	ug/kg	2.50		105	65-137			
9Cl-PF3ONS	2.30	2.5	ug/kg	2.50		92	70-130			

Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2326 - EPA 537M (Continued)										
LCS (W4C2326-BS1)			Prepared: 03/29/24 Analyzed: 04/09/24							
ADONA	2.24	2.5	ug/kg	2.50		89	70-130			
EtFOSA	2.00	2.5	ug/kg	2.50		80	70-130			
EtFOSAA	2.56	2.5	ug/kg	2.50		102	61-139			
EtFOSE	2.60	2.5	ug/kg	2.50		104	70-130			
FOSA	2.31	2.5	ug/kg	2.50		92	67-137			
HFPO-DA	2.26	2.5	ug/kg	2.50		90	70-130			
MeFOSA	3.08	2.5	ug/kg	2.50		123	70-130			
MeFOSAA	2.00	2.5	ug/kg	2.50		80	63-144			
MeFOSE	2.31	2.5	ug/kg	2.50		92	70-130			
Perfluorooctanoic acid (PFOA)	2.26	2.5	ug/kg	2.50		90	69-133			
PFBA	2.25	2.5	ug/kg	2.50		90	40-150			
PFBS	2.20	2.5	ug/kg	2.50		88	72-128			
PFDA	2.25	2.5	ug/kg	2.50		90	69-133			
PFDoA	2.24	2.5	ug/kg	2.50		90	69-135			
PFDS	2.37	2.5	ug/kg	2.50		95	59-134			
PFHpA	2.07	2.5	ug/kg	2.50		83	71-131			
PFHpS	2.25	2.5	ug/kg	2.50		90	70-132			
PFHxA	2.05	2.5	ug/kg	2.50		82	70-132			
PFHxS	2.27	2.5	ug/kg	2.50		91	67-130			
PFNA	2.29	2.5	ug/kg	2.50		92	72-129			
PFNS	2.30	2.5	ug/kg	2.50		92	69-125			
PFOS	2.39	2.5	ug/kg	2.50		96	68-136			
PFPeA	2.18	2.5	ug/kg	2.50		87	69-132			
PFPeS	2.13	2.5	ug/kg	2.50		85	73-123			
PFTeDA	2.91	2.5	ug/kg	2.50		116	69-133			
PFTrDA	2.17	2.5	ug/kg	2.50		87	66-139			
PFUnA	2.29	2.5	ug/kg	2.50		92	64-136			
LCS Dup (W4C2326-BSD1)			Prepared: 03/29/24 Analyzed: 04/09/24							
11Cl-PF3OUdS	2.07	2.5	ug/kg	2.50		83	70-130	5	30	
4:2 FTS	2.11	2.5	ug/kg	2.50		85	62-145	15	30	
6:2 FTS	2.47	2.5	ug/kg	2.50		99	64-140	13	30	
8:2 FTS	2.86	4.0	ug/kg	2.50		114	65-137	9	30	
9Cl-PF3ONS	2.01	2.5	ug/kg	2.50		80	70-130	14	30	
ADONA	2.25	2.5	ug/kg	2.50		90	70-130	0.6	30	
EtFOSA	2.18	2.5	ug/kg	2.50		87	70-130	9	30	
EtFOSAA	1.77	2.5	ug/kg	2.50		71	61-139	36	30	Q-12
EtFOSE	1.75	2.5	ug/kg	2.50		70	70-130	39	30	Q-12
FOSA	2.31	2.5	ug/kg	2.50		92	67-137	0.3	30	

Quality Control Results

(Continued)

Per- and Polyflourinated Alkyl Substances (PFAS) by LC-MS/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2326 - EPA 537M (Continued)										
LCS Dup (W4C2326-BSD1)			Prepared: 03/29/24 Analyzed: 04/09/24							
HFPO-DA	2.35	2.5	ug/kg	2.50		94	70-130	4	30	
MeFOSA	2.33	2.5	ug/kg	2.50		93	70-130	28	30	
MeFOSAA	2.47	2.5	ug/kg	2.50		99	63-144	21	30	
MeFOSE	2.08	2.5	ug/kg	2.50		83	70-130	10	30	
Perfluorooctanoic acid (PFOA)	2.25	2.5	ug/kg	2.50		90	69-133	0.4	30	
PFBA	2.31	2.5	ug/kg	2.50		92	40-150	2	30	
PFBS	2.40	2.5	ug/kg	2.50		96	72-128	9	30	
PFDA	2.16	2.5	ug/kg	2.50		87	69-133	4	30	
PFDoA	2.40	2.5	ug/kg	2.50		96	69-135	7	30	
PFDS	1.96	2.5	ug/kg	2.50		78	59-134	19	30	
PFHpA	2.31	2.5	ug/kg	2.50		92	71-131	11	30	
PFHpS	2.37	2.5	ug/kg	2.50		95	70-132	5	30	
PFHxA	2.15	2.5	ug/kg	2.50		86	70-132	5	30	
PFHxS	2.26	2.5	ug/kg	2.50		91	67-130	0.3	30	
PFNA	2.20	2.5	ug/kg	2.50		88	72-129	4	30	
PFNS	2.24	2.5	ug/kg	2.50		89	69-125	3	30	
PFOS	2.44	2.5	ug/kg	2.50		98	68-136	2	30	
PFPeA	2.19	2.5	ug/kg	2.50		88	69-132	0.4	30	
PFPeS	2.20	2.5	ug/kg	2.50		88	73-123	3	30	
PFTeDA	3.00	2.5	ug/kg	2.50		120	69-133	3	30	
PFTrDA	2.25	2.5	ug/kg	2.50		90	66-139	4	30	
PFUnA	2.28	2.5	ug/kg	2.50		91	64-136	0.6	30	

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2261 - EPA 3546/Microwave										
Blank (W4C2261-BLK1)			Prepared: 03/28/24 Analyzed: 03/30/24							
1,2,4-Trichlorobenzene	ND	0.20	mg/kg							
1,2-Dichlorobenzene	ND	0.20	mg/kg							
1,2-Diphenylhydrazine/Azobenzene	ND	0.20	mg/kg							
1,3-Dichlorobenzene	ND	0.20	mg/kg							
1,4-Dichlorobenzene	ND	0.20	mg/kg							
2,4,5-Trichlorophenol	ND	0.20	mg/kg							
2,4,6-Trichlorophenol	ND	0.20	mg/kg							
2,4-Dichlorophenol	ND	0.20	mg/kg							
2,4-Dimethylphenol	ND	0.20	mg/kg							
2,4-Dinitrophenol	ND	2.0	mg/kg							
2,4-Dinitrotoluene	ND	0.20	mg/kg							
2,6-Dinitrotoluene	ND	0.20	mg/kg							
2-Chloronaphthalene	ND	0.20	mg/kg							
2-Chlorophenol	ND	0.20	mg/kg							
2-Methylnaphthalene	ND	0.20	mg/kg							
2-Methylphenol	ND	0.20	mg/kg							
2-Nitroaniline	ND	0.20	mg/kg							
2-Nitrophenol	ND	0.20	mg/kg							
3 & 4-Methylphenol	ND	0.20	mg/kg							
3,3'-Dichlorobenzidine	ND	2.0	mg/kg							
3-Nitroaniline	ND	0.20	mg/kg							
4,6-Dinitro-2-methylphenol	ND	2.0	mg/kg							
4-Bromophenyl phenyl ether	ND	0.20	mg/kg							
4-Chloro-3-methylphenol	ND	0.20	mg/kg							
4-Chloroaniline	ND	0.20	mg/kg							
4-Chlorophenyl phenyl ether	ND	0.20	mg/kg							
4-Nitroaniline	ND	0.20	mg/kg							
4-Nitrophenol	ND	2.0	mg/kg							
Acenaphthene	ND	0.20	mg/kg							
Acenaphthylene	ND	0.20	mg/kg							
Aniline	ND	0.20	mg/kg							
Anthracene	ND	0.20	mg/kg							
Benzidine	ND	2.0	mg/kg							
Benzo (a) anthracene	ND	0.20	mg/kg							
Benzo (a) pyrene	ND	0.20	mg/kg							
Benzo (b) fluoranthene	ND	0.20	mg/kg							
Benzo (g,h,i) perylene	ND	0.40	mg/kg							
Benzo (k) fluoranthene	ND	0.20	mg/kg							

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2261 - EPA 3546/Microwave (Continued)										
Blank (W4C2261-BLK1)			Prepared: 03/28/24 Analyzed: 03/30/24							
Benzoic acid	ND	10	mg/kg							
Benzyl alcohol	ND	0.20	mg/kg							
Bis(2-chloroethoxy)methane	ND	0.20	mg/kg							
Bis(2-chloroethyl)ether	ND	0.20	mg/kg							
Bis(2-chloroisopropyl)ether	ND	0.20	mg/kg							
Bis(2-ethylhexyl)phthalate	ND	0.40	mg/kg							
Butyl benzyl phthalate	ND	0.20	mg/kg							
Carbazole	ND	0.20	mg/kg							
Chrysene	ND	0.20	mg/kg							
Dibenzo (a,h) anthracene	ND	0.40	mg/kg							
Dibenzofuran	ND	0.20	mg/kg							
Diethyl phthalate	ND	0.20	mg/kg							
Dimethyl phthalate	ND	0.40	mg/kg							
Di-n-butyl phthalate	ND	0.20	mg/kg							
Di-n-octyl phthalate	ND	0.20	mg/kg							
Diphenylamine/N-Nitrosodiphenylamine	ND	0.20	mg/kg							
Fluoranthene	ND	0.20	mg/kg							
Fluorene	ND	0.20	mg/kg							
Hexachlorobenzene	ND	0.20	mg/kg							
Hexachlorobutadiene	ND	0.20	mg/kg							
Hexachlorocyclopentadiene	ND	0.40	mg/kg							
Hexachloroethane	ND	0.20	mg/kg							
Indeno (1,2,3-cd) pyrene	ND	0.40	mg/kg							
Isophorone	ND	0.20	mg/kg							
Naphthalene	ND	0.20	mg/kg							
Nitrobenzene	ND	0.20	mg/kg							
N-Nitrosodimethylamine	ND	0.20	mg/kg							
N-Nitrosodi-n-propylamine	ND	0.20	mg/kg							
Pentachlorophenol	ND	0.20	mg/kg							
Phenanthrene	ND	0.20	mg/kg							
Phenol	ND	0.20	mg/kg							
Pyrene	ND	0.20	mg/kg							
Pyridine	ND	0.40	mg/kg							
Surrogate(s)										
2,4,6-Tribromophenol	*6.00*		*mg/kg*	*8.00*		*75*	*32-103*			
2-Fluorobiphenyl	*3.34*		*mg/kg*	*4.00*		*84*	*36-107*			
2-Fluorophenol	*7.38*		*mg/kg*	*8.00*		*92*	*33-119*			

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2261 - EPA 3546/Microwave (Continued)										
Blank (W4C2261-BLK1)			Prepared: 03/28/24 Analyzed: 03/30/24							
Surrogate(s)										
Nitrobenzene-d5	*3.64*		*mg/kg*	*4.00*		*91*	*36-114*			
Phenol-d5	*7.52*		*mg/kg*	*8.00*		*94*	*40-118*			
Terphenyl-d14	*4.34*		*mg/kg*	*4.00*		*109*	*40-121*			
LCS (W4C2261-BS1)			Prepared: 03/28/24 Analyzed: 03/30/24							
1,2,4-Trichlorobenzene	3.43	0.20	mg/kg	4.00		86	32-111			
1,2-Dichlorobenzene	3.19	0.20	mg/kg	4.00		80	0-200			
1,3-Dichlorobenzene	3.13	0.20	mg/kg	4.00		78	0-200			
1,4-Dichlorobenzene	3.39	0.20	mg/kg	4.00		85	30-111			
2,4,6-Trichlorophenol	3.62	0.20	mg/kg	4.00		90	0-200			
2,4-Dichlorophenol	3.60	0.20	mg/kg	4.00		90	0-200			
2,4-Dimethylphenol	4.14	0.20	mg/kg	4.00		104	0-200			
2,4-Dinitrophenol	3.16	2.0	mg/kg	4.00		79	0-200			
2,4-Dinitrotoluene	3.79	0.20	mg/kg	4.00		95	49-119			
2,6-Dinitrotoluene	3.73	0.20	mg/kg	4.00		93	0-200			
2-Chloronaphthalene	3.53	0.20	mg/kg	4.00		88	0-200			
2-Chlorophenol	3.48	0.20	mg/kg	4.00		87	31-111			
2-Nitrophenol	3.97	0.20	mg/kg	4.00		99	0-200			
3,3'-Dichlorobenzidine	2.39	2.0	mg/kg	4.00		60	0-200			
4,6-Dinitro-2-methylphenol	3.47	2.0	mg/kg	4.00		87	0-200			
4-Bromophenyl phenyl ether	3.57	0.20	mg/kg	4.00		89	0-200			
4-Chloro-3-methylphenol	3.69	0.20	mg/kg	4.00		92	27-138			
4-Chlorophenyl phenyl ether	3.36	0.20	mg/kg	4.00		84	0-200			
4-Nitrophenol	3.41	2.0	mg/kg	4.00		85	35-109			
Acenaphthene	3.68	0.20	mg/kg	4.00		92	44-118			
Acenaphthylene	3.81	0.20	mg/kg	4.00		95	0-200			
Anthracene	3.81	0.20	mg/kg	4.00		95	0-200			
Benzo (a) anthracene	3.94	0.20	mg/kg	4.00		99	0-200			
Benzo (a) pyrene	4.17	0.20	mg/kg	4.00		104	0-200			
Benzo (b) fluoranthene	4.17	0.20	mg/kg	4.00		104	0-200			AN-IP
Benzo (g,h,i) perylene	4.16	0.40	mg/kg	4.00		104	0-200			
Benzo (k) fluoranthene	4.05	0.20	mg/kg	4.00		101	0-200			AN-IP
Bis(2-chloroethoxy)methane	3.60	0.20	mg/kg	4.00		90	0-200			
Bis(2-chloroethyl)ether	3.27	0.20	mg/kg	4.00		82	0-200			
Bis(2-chloroisopropyl)ether	3.48	0.20	mg/kg	4.00		87	0-200			
Bis(2-ethylhexyl)phthalate	4.63	0.40	mg/kg	4.00		116	0-200			
Butyl benzyl phthalate	4.61	0.20	mg/kg	4.00		115	0-200			

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2261 - EPA 3546/Microwave (Continued)										
LCS (W4C2261-BS1)			Prepared: 03/28/24 Analyzed: 03/30/24							
Chrysene	3.86	0.20	mg/kg	4.00		97	0-200			
Dibenzo (a,h) anthracene	3.68	0.40	mg/kg	4.00		92	0-200			
Diethyl phthalate	3.47	0.20	mg/kg	4.00		87	0-200			
Dimethyl phthalate	3.40	0.40	mg/kg	4.00		85	0-200			
Di-n-butyl phthalate	4.02	0.20	mg/kg	4.00		101	0-200			
Di-n-octyl phthalate	4.25	0.20	mg/kg	4.00		106	0-200			
Diphenylamine/N-Nitrosodiphenylamine	2.90	0.20	mg/kg				0-200			
Fluoranthene	4.12	0.20	mg/kg	4.00		103	0-200			
Fluorene	3.58	0.20	mg/kg	4.00		90	0-200			
Hexachlorobenzene	3.41	0.20	mg/kg	4.00		85	0-200			
Hexachlorobutadiene	3.46	0.20	mg/kg	4.00		86	0-200			
Hexachlorocyclopentadiene	3.23	0.40	mg/kg	4.00		81	0-200			
Hexachloroethane	3.42	0.20	mg/kg	4.00		85	0-200			
Indeno (1,2,3-cd) pyrene	3.74	0.40	mg/kg	4.00		94	0-200			
Isophorone	3.09	0.20	mg/kg	4.00		77	0-200			
Naphthalene	3.61	0.20	mg/kg	4.00		90	0-200			
Nitrobenzene	3.48	0.20	mg/kg	4.00		87	0-200			
N-Nitrosodimethylamine	3.04	0.20	mg/kg	4.00		76	33-100			
N-Nitrosodi-n-propylamine	3.50	0.20	mg/kg	4.00		87	32-127			
Pentachlorophenol	3.01	0.20	mg/kg	4.00		75	11-114			
Phenanthrene	3.97	0.20	mg/kg	4.00		99	0-200			
Phenol	3.07	0.20	mg/kg	4.00		77	33-106			
Pyrene	4.22	0.20	mg/kg	4.00		106	56-127			
Surrogate(s)										
2,4,6-Tribromophenol	*8.98*		*mg/kg*	*8.00*		*112*	*32-103*			*S-11*
2-Fluorobiphenyl	*4.36*		*mg/kg*	*4.00*		*109*	*36-107*			*S-11*
2-Fluorophenol	*8.76*		*mg/kg*	*8.00*		*110*	*33-119*			
Nitrobenzene-d5	*4.49*		*mg/kg*	*4.00*		*112*	*36-114*			
Phenol-d5	*8.81*		*mg/kg*	*8.00*		*110*	*40-118*			
Terphenyl-d14	*5.80*		*mg/kg*	*4.00*		*145*	*40-121*			*S-11*
Matrix Spike (W4C2261-MS1)	Source: 4C21078-01		Prepared: 03/28/24 Analyzed: 03/30/24							
1,2,4-Trichlorobenzene	3.30	0.40	mg/kg	3.93	*ND*	84	29-108			M-04
1,2-Dichlorobenzene	3.17	0.40	mg/kg	3.93	*ND*	81	0-200			M-04
1,3-Dichlorobenzene	3.03	0.40	mg/kg	3.93	*ND*	77	0-200			M-04
1,4-Dichlorobenzene	3.25	0.40	mg/kg	3.93	*ND*	83	37-96			M-04
2,4,6-Trichlorophenol	2.90	0.40	mg/kg	3.93	*ND*	74	0-200			M-04
2,4-Dichlorophenol	2.80	0.40	mg/kg	3.93	*ND*	71	0-200			M-04

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2261 - EPA 3546/Microwave (Continued)										
Matrix Spike (W4C2261-MS1)	Source: 4C21078-01			Prepared: 03/28/24		Analyzed: 03/30/24				
2,4-Dimethylphenol	1.15	0.40	mg/kg	3.93	*ND*	29	0-200			M-04
2,4-Dinitrophenol	ND	4.0	mg/kg	3.93	*ND*		0-200			M-04
2,4-Dinitrotoluene	3.50	0.40	mg/kg	3.93	*ND*	89	45-106			M-04
2,6-Dinitrotoluene	3.47	0.40	mg/kg	3.93	*ND*	88	0-200			M-04
2-Chloronaphthalene	3.35	0.40	mg/kg	3.93	*ND*	85	0-200			M-04
2-Chlorophenol	2.67	0.40	mg/kg	3.93	*ND*	68	35-97			M-04
2-Nitrophenol	3.64	0.40	mg/kg	3.93	*ND*	93	0-200			M-04
3,3'-Dichlorobenzidine	ND	4.0	mg/kg	3.93	*ND*		0-200			M-04
4,6-Dinitro-2-methylphenol	3.32	4.0	mg/kg	3.93	*ND*	84	0-200			M-04
4-Bromophenyl phenyl ether	3.42	0.40	mg/kg	3.93	*ND*	87	0-200			M-04
4-Chloro-3-methylphenol	3.05	0.40	mg/kg	3.93	*ND*	78	38-114			M-04
4-Chlorophenyl phenyl ether	3.27	0.40	mg/kg	3.93	*ND*	83	0-200			M-04
4-Nitrophenol	2.93	4.0	mg/kg	3.93	*ND*	75	28-115			M-04
Acenaphthene	3.69	0.40	mg/kg	3.93	*ND*	94	49-103			M-04
Acenaphthylene	3.63	0.40	mg/kg	3.93	*ND*	92	0-200			M-04
Anthracene	3.45	0.40	mg/kg	3.93	*ND*	88	0-200			M-04
Benzo (a) anthracene	3.82	0.40	mg/kg	3.93	*ND*	97	0-200			M-04
Benzo (a) pyrene	4.06	0.40	mg/kg	3.93	*ND*	103	0-200			M-04
Benzo (b) fluoranthene	4.26	0.40	mg/kg	3.93	*ND*	108	0-200			M-04, AN-IP
Benzo (g,h,i) perylene	3.88	0.80	mg/kg	3.93	*ND*	99	0-200			M-04
Benzo (k) fluoranthene	3.87	0.40	mg/kg	3.93	*ND*	98	0-200			M-04, AN-IP
Bis(2-chloroethoxy)methane	3.30	0.40	mg/kg	3.93	*ND*	84	0-200			M-04
Bis(2-chloroethyl)ether	3.20	0.40	mg/kg	3.93	*ND*	81	0-200			M-04
Bis(2-chloroisopropyl)ether	3.13	0.40	mg/kg	3.93	*ND*	80	0-200			M-04
Bis(2-ethylhexyl)phthalate	4.50	0.80	mg/kg	3.93	*ND*	114	0-200			M-04
Butyl benzyl phthalate	4.50	0.40	mg/kg	3.93	*ND*	114	0-200			M-04
Chrysene	3.80	0.40	mg/kg	3.93	*ND*	97	0-200			M-04
Dibenzo (a,h) anthracene	3.48	0.80	mg/kg	3.93	*ND*	89	0-200			M-04
Diethyl phthalate	3.34	0.40	mg/kg	3.93	*ND*	85	0-200			M-04
Dimethyl phthalate	3.26	0.80	mg/kg	3.93	*ND*	83	0-200			M-04
Di-n-butyl phthalate	3.92	0.40	mg/kg	3.93	*ND*	100	0-200			M-04
Di-n-octyl phthalate	4.37	0.40	mg/kg	3.93	*ND*	111	0-200			M-04
Diphenylamine/N-Nitrosodiphenylamine	0.457	0.40	mg/kg		*ND*		0-200			M-04
Fluoranthene	3.85	0.40	mg/kg	3.93	*ND*	98	0-200			M-04
Fluorene	3.60	0.40	mg/kg	3.93	*ND*	92	0-200			M-04
Hexachlorobenzene	3.29	0.40	mg/kg	3.93	*ND*	84	0-200			M-04
Hexachlorobutadiene	3.30	0.40	mg/kg	3.93	*ND*	84	0-200			M-04
Hexachlorocyclopentadiene	2.89	0.80	mg/kg	3.93	*ND*	73	0-200			M-04

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2261 - EPA 3546/Microwave (Continued)										
Matrix Spike (W4C2261-MS1)	Source: 4C21078-01		Prepared: 03/28/24	Analyzed: 03/30/24						
Hexachloroethane	3.28	0.40	mg/kg	3.93	*ND*	84	0-200			M-04
Indeno (1,2,3-cd) pyrene	3.61	0.80	mg/kg	3.93	*ND*	92	0-200			M-04
Isophorone	3.04	0.40	mg/kg	3.93	*ND*	77	0-200			M-04
Naphthalene	3.28	0.40	mg/kg	3.93	*ND*	83	0-200			M-04
Nitrobenzene	3.44	0.40	mg/kg	3.93	*ND*	88	0-200			M-04
N-Nitrosodimethylamine	8.77	0.40	mg/kg	3.93	*1.04*	197	33-100			M-04, MS-01
N-Nitrosodi-n-propylamine	3.49	0.40	mg/kg	3.93	*ND*	89	32-127			M-04
Pentachlorophenol	2.66	0.40	mg/kg	3.93	*ND*	68	23-114			M-04
Phenanthrene	3.55	0.40	mg/kg	3.93	*ND*	90	0-200			M-04
Phenol	2.73	0.40	mg/kg	3.93	*ND*	69	31-102			M-04
Pyrene	3.96	0.40	mg/kg	3.93	*ND*	101	47-122			M-04
Surrogate(s)										
2,4,6-Tribromophenol	*5.13*		*mg/kg*	*7.86*		*65*	*32-103*			
2-Fluorobiphenyl	*3.43*		*mg/kg*	*3.93*		*87*	*36-107*			
2-Fluorophenol	*5.67*		*mg/kg*	*7.86*		*72*	*33-119*			
Nitrobenzene-d5	*3.50*		*mg/kg*	*3.93*		*89*	*36-114*			
Phenol-d5	*5.88*		*mg/kg*	*7.86*		*75*	*40-118*			
Terphenyl-d14	*4.30*		*mg/kg*	*3.93*		*109*	*40-121*			
Matrix Spike Dup (W4C2261-MSD1)	Source: 4C21078-01		Prepared: 03/28/24	Analyzed: 03/30/24						
1,2,4-Trichlorobenzene	2.99	0.40	mg/kg	3.90	*ND*	77	29-108	10	30	M-04
1,2-Dichlorobenzene	2.78	0.40	mg/kg	3.90	*ND*	71	0-200	13	200	M-04
1,3-Dichlorobenzene	2.68	0.40	mg/kg	3.90	*ND*	69	0-200	12	200	M-04
1,4-Dichlorobenzene	2.94	0.40	mg/kg	3.90	*ND*	75	37-96	10	30	M-04
2,4,6-Trichlorophenol	2.65	0.40	mg/kg	3.90	*ND*	68	0-200	9	200	M-04
2,4-Dichlorophenol	2.73	0.40	mg/kg	3.90	*ND*	70	0-200	2	200	M-04
2,4-Dimethylphenol	2.44	0.40	mg/kg	3.90	*ND*	63	0-200	72	200	M-04
2,4-Dinitrophenol	ND	4.0	mg/kg	3.90	*ND*		0-200	200	200	M-04
2,4-Dinitrotoluene	3.40	0.40	mg/kg	3.90	*ND*	87	45-106	3	30	M-04
2,6-Dinitrotoluene	3.17	0.40	mg/kg	3.90	*ND*	81	0-200	9	200	M-04
2-Chloronaphthalene	3.04	0.40	mg/kg	3.90	*ND*	78	0-200	10	200	M-04
2-Chlorophenol	2.60	0.40	mg/kg	3.90	*ND*	67	35-97	3	30	M-04
2-Nitrophenol	3.27	0.40	mg/kg	3.90	*ND*	84	0-200	11	200	M-04
3,3'-Dichlorobenzidine	ND	4.0	mg/kg	3.90	*ND*		0-200		200	M-04
4,6-Dinitro-2-methylphenol	3.04	4.0	mg/kg	3.90	*ND*	78	0-200	9	200	M-04
4-Bromophenyl phenyl ether	3.17	0.40	mg/kg	3.90	*ND*	81	0-200	7	200	M-04
4-Chloro-3-methylphenol	2.90	0.40	mg/kg	3.90	*ND*	74	38-114	5	30	M-04
4-Chlorophenyl phenyl ether	3.08	0.40	mg/kg	3.90	*ND*	79	0-200	6	200	M-04

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2261 - EPA 3546/Microwave (Continued)										
Matrix Spike Dup (W4C2261-MSD1)	Source: 4C21078-01			Prepared: 03/28/24		Analyzed: 03/30/24				
4-Nitrophenol	2.59	4.0	mg/kg	3.90	*ND*	67	28-115	12	30	M-04
Acenaphthene	3.53	0.40	mg/kg	3.90	*ND*	90	49-103	5	30	M-04
Acenaphthylene	3.28	0.40	mg/kg	3.90	*ND*	84	0-200	10	200	M-04
Anthracene	3.35	0.40	mg/kg	3.90	*ND*	86	0-200	3	200	M-04
Benzo (a) anthracene	3.43	0.40	mg/kg	3.90	*ND*	88	0-200	11	200	M-04
Benzo (a) pyrene	3.65	0.40	mg/kg	3.90	*ND*	94	0-200	11	200	M-04
Benzo (b) fluoranthene	3.97	0.40	mg/kg	3.90	*ND*	102	0-200	7	200	M-04, AN-IP
Benzo (g,h,i) perylene	3.60	0.80	mg/kg	3.90	*ND*	92	0-200	8	200	M-04
Benzo (k) fluoranthene	3.45	0.40	mg/kg	3.90	*ND*	89	0-200	11	200	M-04, AN-IP
Bis(2-chloroethoxy)methane	3.04	0.40	mg/kg	3.90	*ND*	78	0-200	8	200	M-04
Bis(2-chloroethyl)ether	2.93	0.40	mg/kg	3.90	*ND*	75	0-200	9	200	M-04
Bis(2-chloroisopropyl)ether	2.85	0.40	mg/kg	3.90	*ND*	73	0-200	9	200	M-04
Bis(2-ethylhexyl)phthalate	4.00	0.80	mg/kg	3.90	*ND*	103	0-200	12	200	M-04
Butyl benzyl phthalate	4.13	0.40	mg/kg	3.90	*ND*	106	0-200	9	200	M-04
Chrysene	3.53	0.40	mg/kg	3.90	*ND*	90	0-200	7	200	M-04
Dibenzo (a,h) anthracene	3.19	0.80	mg/kg	3.90	*ND*	82	0-200	9	200	M-04
Diethyl phthalate	3.15	0.40	mg/kg	3.90	*ND*	81	0-200	6	200	M-04
Dimethyl phthalate	2.98	0.80	mg/kg	3.90	*ND*	76	0-200	9	200	M-04
Di-n-butyl phthalate	3.68	0.40	mg/kg	3.90	*ND*	94	0-200	6	200	M-04
Di-n-octyl phthalate	4.02	0.40	mg/kg	3.90	*ND*	103	0-200	8	200	M-04
Diphenylamine/N-Nitrosodiphenylamine	1.71	0.40	mg/kg		*ND*		0-200	116	200	M-04
Fluoranthene	3.70	0.40	mg/kg	3.90	*ND*	95	0-200	4	200	M-04
Fluorene	3.41	0.40	mg/kg	3.90	*ND*	87	0-200	5	200	M-04
Hexachlorobenzene	3.13	0.40	mg/kg	3.90	*ND*	80	0-200	5	200	M-04
Hexachlorobutadiene	2.89	0.40	mg/kg	3.90	*ND*	74	0-200	13	200	M-04
Hexachlorocyclopentadiene	2.55	0.80	mg/kg	3.90	*ND*	65	0-200	12	200	M-04
Hexachloroethane	2.83	0.40	mg/kg	3.90	*ND*	73	0-200	15	200	M-04
Indeno (1,2,3-cd) pyrene	3.31	0.80	mg/kg	3.90	*ND*	85	0-200	9	200	M-04
Isophorone	2.83	0.40	mg/kg	3.90	*ND*	73	0-200	7	200	M-04
Naphthalene	2.98	0.40	mg/kg	3.90	*ND*	76	0-200	10	200	M-04
Nitrobenzene	3.15	0.40	mg/kg	3.90	*ND*	81	0-200	9	200	M-04
N-Nitrosodimethylamine	4.71	0.40	mg/kg	3.90	*1.04*	94	33-100	60	30	M-04, R-02
N-Nitrosodi-n-propylamine	3.20	0.40	mg/kg	3.90	*ND*	82	32-127	9	30	M-04
Pentachlorophenol	2.22	0.40	mg/kg	3.90	*ND*	57	23-114	18	30	M-04
Phenanthrene	3.46	0.40	mg/kg	3.90	*ND*	89	0-200	3	200	M-04
Phenol	2.55	0.40	mg/kg	3.90	*ND*	65	31-102	7	30	M-04
Pyrene	3.65	0.40	mg/kg	3.90	*ND*	94	47-122	8	30	M-04

Quality Control Results

(Continued)

Semivolatile Organic Compounds by GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C2261 - EPA 3546/Microwave (Continued)										
Matrix Spike Dup (W4C2261-MSD1)	Source: 4C21078-01		Prepared: 03/28/24		Analyzed: 03/30/24					
Surrogate(s)										
2,4,6-Tribromophenol	*4.95*		*mg/kg*	*7.80*		*63*	*32-103*			
2-Fluorobiphenyl	*3.06*		*mg/kg*	*3.90*		*79*	*36-107*			
2-Fluorophenol	*5.44*		*mg/kg*	*7.80*		*70*	*33-119*			
Nitrobenzene-d5	*3.22*		*mg/kg*	*3.90*		*83*	*36-114*			
Phenol-d5	*5.54*		*mg/kg*	*7.80*		*71*	*40-118*			
Terphenyl-d14	*4.13*		*mg/kg*	*3.90*		*106*	*40-121*			

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035										
Blank (W4C1904-BLK1)			Prepared & Analyzed: 03/25/24							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,1-Trichloroethane	ND	5.0	ug/kg							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg							
1,1,2-Trichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethane	ND	5.0	ug/kg							
1,1-Dichloroethene	ND	5.0	ug/kg							
1,1-Dichloropropene	ND	5.0	ug/kg							
1,2,3-Trichlorobenzene	ND	5.0	ug/kg							
1,2,3-Trichloropropane	ND	5.0	ug/kg							
1,2,4-Trichlorobenzene	ND	5.0	ug/kg							
1,2,4-Trimethylbenzene	ND	5.0	ug/kg							
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg							
1,2-Dibromoethane (EDB)	ND	5.0	ug/kg							
1,2-Dichloroethane	ND	5.0	ug/kg							
1,2-Dichloropropane	ND	5.0	ug/kg							
1,3,5-Trimethylbenzene	ND	5.0	ug/kg							
1,3-Dichloropropane	ND	5.0	ug/kg							
2,2-Dichloropropane	ND	5.0	ug/kg							
2-Butanone	ND	5.0	ug/kg							
2-Chlorotoluene	ND	5.0	ug/kg							
2-Hexanone	ND	5.0	ug/kg							
4-Chlorotoluene	ND	5.0	ug/kg							
4-Methyl-2-pentanone	ND	5.0	ug/kg							
Acetone	ND	10	ug/kg							
Acrolein	ND	5.0	ug/kg							
Acrylonitrile	ND	5.0	ug/kg							
Benzene	ND	5.0	ug/kg							
Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	ug/kg							
Bromodichloromethane	ND	5.0	ug/kg							
Bromoform	ND	5.0	ug/kg							
Bromomethane	ND	5.0	ug/kg							
Carbon tetrachloride	ND	5.0	ug/kg							
Chlorobenzene	ND	5.0	ug/kg							
Chloroethane	ND	5.0	ug/kg							
Chloroform	ND	5.0	ug/kg							
Chloromethane	ND	5.0	ug/kg							
cis-1,2-Dichloroethene	ND	5.0	ug/kg							

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035 (Continued)										
Blank (W4C1904-BLK1)			Prepared & Analyzed: 03/25/24							
cis-1,3-Dichloropropene	ND	5.0	ug/kg							
Dibromochloromethane	ND	5.0	ug/kg							
Dibromomethane	ND	5.0	ug/kg							
Dichlorodifluoromethane (Freon 12)	ND	5.0	ug/kg							
Ethylbenzene	ND	5.0	ug/kg							
Hexachlorobutadiene	ND	5.0	ug/kg							
Isopropylbenzene	ND	5.0	ug/kg							
m,p-Xylene	ND	5.0	ug/kg							
m-Dichlorobenzene	ND	5.0	ug/kg							
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	ug/kg							
Naphthalene	ND	5.0	ug/kg							
n-Butylbenzene	ND	5.0	ug/kg							
n-Propylbenzene	ND	5.0	ug/kg							
o-Dichlorobenzene	ND	5.0	ug/kg							
o-Xylene	ND	5.0	ug/kg							
p-Dichlorobenzene	ND	5.0	ug/kg							
p-Isopropyltoluene	ND	5.0	ug/kg							
sec-Butylbenzene	ND	5.0	ug/kg							
Styrene	ND	5.0	ug/kg							
tert-Butylbenzene	ND	5.0	ug/kg							
Tetrachloroethene	ND	5.0	ug/kg							
Toluene	ND	5.0	ug/kg							
trans-1,2-Dichloroethene	ND	5.0	ug/kg							
trans-1,3-Dichloropropene	ND	5.0	ug/kg							
Trichloroethene	ND	5.0	ug/kg							
Trichlorofluoromethane	ND	5.0	ug/kg							
Vinyl chloride	ND	5.0	ug/kg							
Surrogate(s)										
1,2-Dichloroethane-d4	*49.4*		*ug/kg*	*50.0*		*99*	*78-140*			
4-Bromofluorobenzene	*50.4*		*ug/kg*	*50.0*		*101*	*85-116*			
Dibromofluoromethane	*53.5*		*ug/kg*	*50.0*		*107*	*84-120*			
Toluene-d8	*49.7*		*ug/kg*	*50.0*		*99*	*82-120*			
LCS (W4C1904-BS1)			Prepared & Analyzed: 03/25/24							
1,1,1,2-Tetrachloroethane	49.4	5.0	ug/kg	50.0		99	81-120			
1,1,1-Trichloroethane	49.5	5.0	ug/kg	50.0		99	78-125			
1,1,2,2-Tetrachloroethane	46.4	5.0	ug/kg	50.0		93	67-115			

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035 (Continued)										
LCS (W4C1904-BS1)			Prepared & Analyzed: 03/25/24							
1,1,2-Trichloroethane	51.0	5.0	ug/kg	50.0		102	85-121			
1,1-Dichloroethane	49.9	5.0	ug/kg	50.0		100	84-118			
1,1-Dichloroethene	51.1	5.0	ug/kg	50.0		102	80-123			
1,1-Dichloropropene	49.2	5.0	ug/kg	50.0		98	79-128			
1,2,3-Trichlorobenzene	44.5	5.0	ug/kg	50.0		89	36-201			
1,2,3-Trichloropropane	46.6	5.0	ug/kg	50.0		93	65-115			
1,2,4-Trichlorobenzene	45.4	5.0	ug/kg	50.0		91	69-143			
1,2,4-Trimethylbenzene	48.1	5.0	ug/kg	50.0		96	70-119			
1,2-Dibromo-3-chloropropane	45.6	5.0	ug/kg	50.0		91	62-140			
1,2-Dibromoethane (EDB)	47.2	5.0	ug/kg	50.0		94	86-125			
1,2-Dichloroethane	47.7	5.0	ug/kg	50.0		95	74-123			
1,2-Dichloropropane	50.9	5.0	ug/kg	50.0		102	83-122			
1,3,5-Trimethylbenzene	47.6	5.0	ug/kg	50.0		95	66-122			
1,3-Dichloropropane	48.0	5.0	ug/kg	50.0		96	85-122			
2,2-Dichloropropane	52.8	5.0	ug/kg	50.0		106	78-124			
2-Butanone	51.6	5.0	ug/kg	50.0		103	65-139			
2-Chlorotoluene	48.0	5.0	ug/kg	50.0		96	65-118			
2-Hexanone	53.6	5.0	ug/kg	50.0		107	72-138			
4-Chlorotoluene	49.1	5.0	ug/kg	50.0		98	71-116			
4-Methyl-2-pentanone	50.0	5.0	ug/kg	50.0		100	70-133			
Acetone	525	10	ug/kg	500		105	57-138			
Acrolein	53.9	5.0	ug/kg	50.0		108	57-139			
Acrylonitrile	52.2	5.0	ug/kg	50.0		104	78-124			
Benzene	49.9	5.0	ug/kg	50.0		100	83-121			
Bromobenzene	46.7	5.0	ug/kg	50.0		93	67-115			
Bromochloromethane	47.2	5.0	ug/kg	50.0		94	82-117			
Bromodichloromethane	50.0	5.0	ug/kg	50.0		100	78-122			
Bromoform	48.8	5.0	ug/kg	50.0		98	83-125			
Bromomethane	53.7	5.0	ug/kg	50.0		107	58-133			
Carbon tetrachloride	49.6	5.0	ug/kg	50.0		99	79-126			
Chlorobenzene	47.3	5.0	ug/kg	50.0		95	84-118			
Chloroethane	54.3	5.0	ug/kg	50.0		109	58-135			
Chloroform	52.4	5.0	ug/kg	50.0		105	80-123			
Chloromethane	51.1	5.0	ug/kg	50.0		102	58-128			
cis-1,2-Dichloroethene	52.4	5.0	ug/kg	50.0		105	83-120			
cis-1,3-Dichloropropene	46.5	5.0	ug/kg	50.0		93	88-123			
Dibromochloromethane	46.0	5.0	ug/kg	50.0		92	83-124			
Dibromomethane	50.6	5.0	ug/kg	50.0		101	84-123			

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035 (Continued)										
LCS (W4C1904-BS1)				Prepared & Analyzed: 03/25/24						
Dichlorodifluoromethane (Freon 12)	52.9	5.0	ug/kg	50.0		106	67-126			
Ethylbenzene	47.0	5.0	ug/kg	50.0		94	80-120			
Hexachlorobutadiene	49.4	5.0	ug/kg	50.0		99	70-130			
Isopropylbenzene	47.2	5.0	ug/kg	50.0		94	66-122			
m,p-Xylene	46.0	5.0	ug/kg	50.0		92	78-120			
m-Dichlorobenzene	49.9	5.0	ug/kg	50.0		100	75-119			
Methyl tert-butyl ether (MTBE)	206	5.0	ug/kg	200		103	83-122			
Methylene chloride	53.4	5.0	ug/kg	50.0		107	76-118			
Naphthalene	48.2	5.0	ug/kg	50.0		96	42-190			
n-Butylbenzene	47.6	5.0	ug/kg	50.0		95	68-119			
n-Propylbenzene	47.4	5.0	ug/kg	50.0		95	64-120			
o-Dichlorobenzene	51.3	5.0	ug/kg	50.0		103	77-117			
o-Xylene	46.5	5.0	ug/kg	50.0		93	77-126			
p-Dichlorobenzene	48.5	5.0	ug/kg	50.0		97	76-119			
p-Isopropyltoluene	47.1	5.0	ug/kg	50.0		94	70-123			
sec-Butylbenzene	48.8	5.0	ug/kg	50.0		98	67-120			
Styrene	49.1	5.0	ug/kg	50.0		98	84-125			
tert-Butylbenzene	47.3	5.0	ug/kg	50.0		95	70-119			
Tetrachloroethene	47.2	5.0	ug/kg	50.0		94	80-129			
Toluene	52.0	5.0	ug/kg	50.0		104	81-126			
trans-1,2-Dichloroethene	51.1	5.0	ug/kg	50.0		102	82-123			
trans-1,3-Dichloropropene	47.0	5.0	ug/kg	50.0		94	81-131			
Trichloroethene	47.9	5.0	ug/kg	50.0		96	82-118			
Trichlorofluoromethane	49.8	5.0	ug/kg	50.0		100	72-129			
Vinyl chloride	51.0	5.0	ug/kg	50.0		102	63-130			
Surrogate(s)										
1,2-Dichloroethane-d4	*50.9*		*ug/kg*	*50.0*		*102*	*78-140*			
4-Bromofluorobenzene	*51.6*		*ug/kg*	*50.0*		*103*	*85-116*			
Dibromofluoromethane	*53.4*		*ug/kg*	*50.0*		*107*	*84-120*			
Toluene-d8	*52.7*		*ug/kg*	*50.0*		*105*	*82-120*			
LCS Dup (W4C1904-BSD1)				Prepared & Analyzed: 03/25/24						
1,1,1,2-Tetrachloroethane	49.8	5.0	ug/kg	50.0		100	81-120	0.7	25	
1,1,1-Trichloroethane	46.6	5.0	ug/kg	50.0		93	78-125	6	25	
1,1,2,2-Tetrachloroethane	46.5	5.0	ug/kg	50.0		93	67-115	0.2	25	
1,1,2-Trichloroethane	46.9	5.0	ug/kg	50.0		94	85-121	8	25	
1,1-Dichloroethane	46.9	5.0	ug/kg	50.0		94	84-118	6	25	
1,1-Dichloroethene	46.7	5.0	ug/kg	50.0		93	80-123	9	25	

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035 (Continued)										
LCS Dup (W4C1904-BSD1)			Prepared & Analyzed: 03/25/24							
1,1-Dichloropropene	45.9	5.0	ug/kg	50.0		92	79-128	7	25	
1,2,3-Trichlorobenzene	42.6	5.0	ug/kg	50.0		85	36-201	5	25	
1,2,3-Trichloropropane	47.5	5.0	ug/kg	50.0		95	65-115	2	25	
1,2,4-Trichlorobenzene	43.2	5.0	ug/kg	50.0		86	69-143	5	25	
1,2,4-Trimethylbenzene	48.2	5.0	ug/kg	50.0		96	70-119	0.4	25	
1,2-Dibromo-3-chloropropane	47.7	5.0	ug/kg	50.0		95	62-140	4	25	
1,2-Dibromoethane (EDB)	45.4	5.0	ug/kg	50.0		91	86-125	4	25	
1,2-Dichloroethane	44.7	5.0	ug/kg	50.0		89	74-123	6	25	
1,2-Dichloropropane	48.5	5.0	ug/kg	50.0		97	83-122	5	25	
1,3,5-Trimethylbenzene	48.0	5.0	ug/kg	50.0		96	66-122	0.7	25	
1,3-Dichloropropane	45.5	5.0	ug/kg	50.0		91	85-122	5	25	
2,2-Dichloropropane	49.1	5.0	ug/kg	50.0		98	78-124	7	25	
2-Butanone	49.0	5.0	ug/kg	50.0		98	65-139	5	25	
2-Chlorotoluene	48.9	5.0	ug/kg	50.0		98	65-118	2	25	
2-Hexanone	52.6	5.0	ug/kg	50.0		105	72-138	2	25	
4-Chlorotoluene	49.5	5.0	ug/kg	50.0		99	71-116	0.7	25	
4-Methyl-2-pentanone	52.3	5.0	ug/kg	50.0		105	70-133	4	25	
Acetone	486	10	ug/kg	500		97	57-138	8	25	
Acrolein	47.4	5.0	ug/kg	50.0		95	57-139	13	25	
Acrylonitrile	49.6	5.0	ug/kg	50.0		99	78-124	5	25	
Benzene	47.1	5.0	ug/kg	50.0		94	83-121	6	25	
Bromobenzene	47.7	5.0	ug/kg	50.0		95	67-115	2	25	
Bromochloromethane	43.5	5.0	ug/kg	50.0		87	82-117	8	25	
Bromodichloromethane	47.2	5.0	ug/kg	50.0		94	78-122	6	25	
Bromoform	47.1	5.0	ug/kg	50.0		94	83-125	3	25	
Bromomethane	49.7	5.0	ug/kg	50.0		99	58-133	8	25	
Carbon tetrachloride	46.0	5.0	ug/kg	50.0		92	79-126	8	25	
Chlorobenzene	47.0	5.0	ug/kg	50.0		94	84-118	0.6	25	
Chloroethane	53.6	5.0	ug/kg	50.0		107	58-135	1	25	
Chloroform	48.8	5.0	ug/kg	50.0		98	80-123	7	25	
Chloromethane	48.0	5.0	ug/kg	50.0		96	58-128	6	25	
cis-1,2-Dichloroethene	48.8	5.0	ug/kg	50.0		98	83-120	7	25	
cis-1,3-Dichloropropene	44.8	5.0	ug/kg	50.0		90	88-123	4	25	
Dibromochloromethane	43.9	5.0	ug/kg	50.0		88	83-124	5	25	
Dibromomethane	47.2	5.0	ug/kg	50.0		94	84-123	7	25	
Dichlorodifluoromethane (Freon 12)	48.3	5.0	ug/kg	50.0		97	67-126	9	25	
Ethylbenzene	47.5	5.0	ug/kg	50.0		95	80-120	1	25	
Hexachlorobutadiene	45.8	5.0	ug/kg	50.0		92	70-130	8	25	

Quality Control Results

(Continued)

Volatile Organic Compounds by P&T and GC/MS (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W4C1904 - EPA 5035 (Continued)										
LCS Dup (W4C1904-BSD1)			Prepared & Analyzed: 03/25/24							
Isopropylbenzene	47.2	5.0	ug/kg	50.0		94	66-122	0.05	25	
m,p-Xylene	46.2	5.0	ug/kg	50.0		92	78-120	0.3	25	
m-Dichlorobenzene	48.9	5.0	ug/kg	50.0		98	75-119	2	25	
Methyl tert-butyl ether (MTBE)	193	5.0	ug/kg	200		97	83-122	6	25	
Methylene chloride	49.4	5.0	ug/kg	50.0		99	76-118	8	25	
Naphthalene	47.6	5.0	ug/kg	50.0		95	42-190	1	25	
n-Butylbenzene	44.9	5.0	ug/kg	50.0		90	68-119	6	25	
n-Propylbenzene	48.3	5.0	ug/kg	50.0		97	64-120	2	25	
o-Dichlorobenzene	51.7	5.0	ug/kg	50.0		103	77-117	0.7	25	
o-Xylene	46.4	5.0	ug/kg	50.0		93	77-126	0.3	25	
p-Dichlorobenzene	47.2	5.0	ug/kg	50.0		94	76-119	3	25	
p-Isopropyltoluene	46.0	5.0	ug/kg	50.0		92	70-123	2	25	
sec-Butylbenzene	48.5	5.0	ug/kg	50.0		97	67-120	0.7	25	
Styrene	49.3	5.0	ug/kg	50.0		99	84-125	0.5	25	
tert-Butylbenzene	47.9	5.0	ug/kg	50.0		96	70-119	1	25	
Tetrachloroethene	44.5	5.0	ug/kg	50.0		89	80-129	6	25	
Toluene	48.3	5.0	ug/kg	50.0		97	81-126	7	25	
trans-1,2-Dichloroethene	47.7	5.0	ug/kg	50.0		95	82-123	7	25	
trans-1,3-Dichloropropene	45.4	5.0	ug/kg	50.0		91	81-131	3	25	
Trichloroethene	45.3	5.0	ug/kg	50.0		91	82-118	6	25	
Trichlorofluoromethane	46.2	5.0	ug/kg	50.0		92	72-129	7	25	
Vinyl chloride	48.4	5.0	ug/kg	50.0		97	63-130	5	25	
Surrogate(s)										
1,2-Dichloroethane-d4	*47.2*		*ug/kg*	*50.0*		*94*	*78-140*			
4-Bromofluorobenzene	*50.9*		*ug/kg*	*50.0*		*102*	*85-116*			
Dibromofluoromethane	*50.0*		*ug/kg*	*50.0*		*100*	*84-120*			
Toluene-d8	*49.5*		*ug/kg*	*50.0*		*99*	*82-120*			

Notes and Definitions

Item	Definition
AN-IP	Sample results for structural isomers may have contribution from their isomeric pair.
E-01	The concentration indicated for this analyte is an estimated value above the calibration range.
I-05	Low internal standard recovery possibly due to matrix interference. The result is suspect.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
MS-01	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference.
O-04	This analysis was performed outside the EPA recommended holding time.
O-09	This sample was received with the EPA recommended holding time expired.
O-14	This analysis was requested by the client after the holding time was exceeded.
Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
R-02	The RPD was outside of QC acceptance limits due to possible matrix interference.
S-04	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
%REC	Percent Recovery
Dil	Dilution
MRL	Method Reporting Limit (MRL) is the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Analyses Accreditation

Analyte	CAS #	Not By ELAP-CA	Not By NELAP	Not By ANAB ISO 17025
EPA 160.3M in Solid				
Moisture		⊗	⊗	⊗
EPA 537M in Solid				
FOSA	754-91-6		⊗	
10:2 FTS	108026-35-3		⊗	
PFHxDA	67905-19-5		⊗	

Analyses Accreditation

(Continued)

Analyte	CAS #	Not By ELAP-CA	Not By NELAP	Not By ANAB ISO 17025
EPA 537M in Solid (Continued)				
7:3 FTCA	812-70-4		⊗	
3:3 FTCA	356-02-5		⊗	
5:3 FTCA	914637-49-3		⊗	
NFDHA	151772-58-6		⊗	
PFEESA	113507-82-7		⊗	
PFMPA	377-73-1		⊗	
PFMBA	863090-89-5		⊗	
EPA 6020 in Solid				
Thorium, Total	7440-29-1	⊗	⊗	⊗
Uranium, Total	7440-61-1	⊗		⊗
EPA 8260B in Solid				
Acrolein	107-02-8	⊗		⊗
Acrylonitrile	107-13-1	⊗		⊗
Acetone	67-64-1	⊗		⊗
2,2-Dichloropropane	594-20-7	⊗		⊗
2-Butanone	78-93-3	⊗		⊗
1,1-Dichloropropene	563-58-6	⊗		⊗
1,3-Dichloropropane	142-28-9			⊗
2-Hexanone	591-78-6	⊗		⊗
Isopropylbenzene	98-82-8	⊗		⊗
2-Chlorotoluene	95-49-8	⊗		⊗
1,3,5-Trimethylbenzene	108-67-8	⊗		⊗
1,2,4-Trimethylbenzene	95-63-6	⊗		⊗
p-Isopropyltoluene	99-87-6	⊗	⊗	⊗
1,2,3-Trichlorobenzene	87-61-6	⊗		⊗
1,3-Dichloropropene, Total	542-75-6	⊗		⊗
EPA 8270C in Solid				
Pyridine	110-86-1	⊗		⊗
Phenol	108-95-2	⊗		⊗
2-Methylphenol	95-48-7	⊗		⊗

Analyses Accreditation

(Continued)

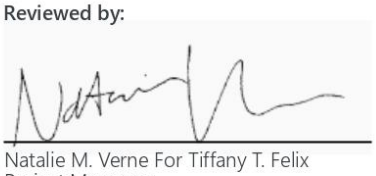
Analyte	CAS #	Not By ELAP-CA	Not By NELAP	Not By ANAB ISO 17025
EPA 8270C in Solid (Continued)				
Bis(2-chloroisopropyl)ether	108-60-1	⊗	⊗	⊗
3 & 4-Methylphenol		⊗		⊗
Hexachloroethane	67-72-1	⊗		⊗
Isophorone	78-59-1			⊗
1,2,4-Trichlorobenzene	120-82-1	⊗		⊗
Hexachlorobutadiene	87-68-3	⊗		⊗
2-Methylnaphthalene	91-57-6			⊗
Hexachlorocyclopentadiene	77-47-4	⊗		⊗
2,4,6-Trichlorophenol	88-06-2	⊗		⊗
2,4,5-Trichlorophenol	95-95-4	⊗		⊗
2,6-Dinitrotoluene	606-20-2		⊗	
4,6-Dinitro-2-methylphenol	534-52-1	⊗	⊗	⊗
Diphenylamine/N-Nitrosodiphenylamine	122-39-4	⊗		⊗
1,2-Diphenylhydrazine/Azobenzene	122-66-7	⊗		⊗
Hexachlorobenzene	118-74-1	⊗		⊗
Phenanthrene	85-01-8			⊗
Carbazole	86-74-8			⊗
Pyrene	129-00-0	⊗		⊗
Bis(2-ethylhexyl)phthalate	117-81-7		⊗	
Indeno (1,2,3-cd) pyrene	193-39-5			⊗
Azobenzene/1,2-Diphenylhydrazine	103-33-3	⊗		⊗
2-Fluorophenol	367-12-4		⊗	⊗
Phenol-d5	4165-62-2			⊗
2-Fluorobiphenyl	321-60-8			⊗
2,4,6-Tribromophenol	118-79-6			⊗
Terphenyl-d14	1718-51-0			⊗

WECK LABORATORIES, INC.

Certificate of Analysis
SUPPLEMENTAL REPORT

This laboratory report may contain results for target analytes that are not currently certifiable by the California Environmental Laboratory Accreditation Program (ELAP). ELAP is the state agency that accredits environmental testing laboratories in California<https://www.waterboards.ca.gov/drinking_water/certlic/labs/index.html>. ELAP certification is required for laboratories that perform testing for regulatory purposes, such as drinking water, wastewater, hazardous waste, and ambient water<https://www.waterboards.ca.gov/drinking_water/certlic/labs/apply.html>. However, ELAP does not certify all analytes or methods that a laboratory may offer. Therefore, some of the target analytes in this report may not have been tested under ELAP-approved methods or quality control procedures. The results for these analytes are provided for informational purposes only and should not be used for regulatory compliance or decision making. Please contact the laboratory if you have any questions or concerns about the report.

Reviewed by:



Natalie M. Verne For Tiffany T. Felix
Project Manager

DoD-ELAP ANAB #ADE-2882 ● DoD-ISO ANAB # ● ELAP-CA #1132 ● EPA-UCMR #CA00211 ● ISO17025 ANAB #L2457.01 ● LACSD #10143 ● NELAP-OR #4047 ● NJ-DEP #CA015 ● NV-DEP #NAC 445A ● SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. The report may include analytes that are not currently accreditable by some state agencies or accrediting bodies. This analytical report must be reproduced in its entirety.

WECK LABORATORIES, INC.
Analytical Laboratory Service - Since 1954
14859 Clark Avenue : Industry : CA 91745
Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Standard CHAIN OF CUSTODY RECORD

WECK WKO# 4C21078

CLIENT NAME:

PROJECT: CITY OF JURUPA NITRATE SAMPLE

ADDRESS:

PHONE:
FAX:
EMAIL: RAYMOND.FARTHING@XYLEM.COM

PROJECT MANAGER

SAMPLER: CITY OF JURUPA

ID# (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	Cl_2 Y/N	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	VOC's 8260-8270	Comp. Metals Total	Moisture Percentage	Total Thorium 6020	Total Uranium 6020	Ingrowth EPA 901.1	HSL 300 Actinides	Boiq Carbon Chain	PFAS
	2-26-24		DW		Nitrate Resin Sample	2	X	X	X	X	X	X	X	X	X

ANALYSES REQUESTED

SPECIAL HANDLING
- ☐ Same Day Rush 150%
- ☐ 24 Hour Rush 100%
- ☐ 48-72 Hour Rush 75%
- ☐ ~~4~~ 4 - 5 Day Rush 30%
- ☐ ~~50~~ Rush Extractions 50%
- ☐ 10 - 15 Business Days
- ☐ QA/QC Data Package

Charges will apply for weekends/holidays
Method of Shipment:
COMMENTS: Sample is needed Rushed.

informed Raymond F. will not be logging in HSL300 + Ingrowth - TF 03/21/24

RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
Raymond Farthing	3/21/24 1435	CSA	3/21/24 1435
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME
RELINQUISHED BY	DATE / TIME	RECEIVED BY	DATE / TIME

SAMPLE CONDITION:
Actual Temperature: T-0 306 25.1°c
Received On Ice: Y / N
Preserved: Y / N
Evidence Seals Present: Y / N
Container Attacked: Y / N
Preserved at Lab: Y / N

SAMPLE TYPE CODE:
AQ=Aqueous
NA= Non Aqueous
SL = Sludge
DW = Drinking Water
WW = Waste Water
RW = Rain Water
GW = Ground Water
SO = Soil
SW = Solid Waste
OL = Oil
OT = Other Matrix

PRESCHEDULED RUSH ANALYSES WILL TAKE PRIORITY OVER UNSCHEDULED RUSH REQUESTS
Client agrees to Terms & Conditions at: www.wecklabs.com

SPECIAL REQUIREMENTS / BILLING INFORMATION

COC version 012707

Page_____ of _____

WECK LABORATORIES, INC.

Sample Receipt Checklist

Weck WKO: **4C21078**
WKO Logged by: Jerico Bolotano
Samples Checked by: Jerico Bolotano

Date/Time Received: 03/21/24 @ 14:35
# of Samples: 01
Delivered by: Client

	Task	Yes	No	N/A	Comments
COC	COC present at receipt?	☒	☐		
	COC properly completed?	☒	☐		
	COC matches sample labels?	☒	☐		
	Project Manager notified about COC discrepancy?	☐	☐	☒	
Receipt Information	Sample Temperature	25.1°C			
	Samples received on ice?	☐	☒		
	Ice Type (Blue/Wet)				
	All samples intact?	☒	☐		
	Samples in proper containers?	☒	☐		
	Sufficient sample volume?	☒	☐		
	Samples intact?	☒	☐		
	Received within holding time?	☒	☐		
	Project Manager notified?	☐	☐	☒	
Sample Preservation Verification?	Sample labels checked for correct preservation?	☒	☐	☐	
	VOC Headspace: (No) none, If Yes (See comment) 524.2, 524.3, 624.1, 8260, 1666 P/T, LUFT	☐	☐	☒	☐ <6mm/Pea size?
	pH verified upon receipt? Metals <2; H2SO4 pres tests <2; 522<4; TOC <2; 508.1, 525.2<2; 6710B<2; 608.3 5-9	☐	☐	☒	pH paper Lot#
	Free Chlorine Tested <0.1 (Organic Analyses)	☐	☐	☒	Cl Test Strip Lot#
	O&G pH <2 verified?	☐	☐	☐	pH paper Lot#
	pH adjusted for O&G	☐	☐	☐	pH Reading: Acid Lot# Amt added:
	Project Manager notified about sample preservation?	☐	☐	☒	

PM Comments

Sample Receipt Checklist Prepared by:
Signature: Jerico Bolotano Date: 03/26/24

QAF-006 V1.0 12/16/2021
C:\Users\samplelogin2\Downloads\220726 Sample Receipt Checklist.docx
[Type here]

EXHIBIT "B", CONTRACT
For Turnkey Disposal of Nitrate Specific Ion Exchange Spent Resin

This CONTRACT ("Contract"), is made and entered into this ____ day of _____ 2024, by and between the **Jurupa Community Services District**, a public agency organized under the laws of the State of California with its principal place of business at **11201 Harrel Street Jurupa Valley, CA 91752** ("JCSD") and _____**,** a _____ with its principal place of business at _____ ("Supplier").

NOW, THEREFORE, in consideration of the mutual promises and obligations set forth herein, the parties agree as follows:

I. JCSD ASSIGNMENT

All general direction related to performance under this Contract shall come from the JCSD's designated representative. Details of the JCSD's assignment are as follows.

JCSD Representative:	Jesse Ruiz, Water Systems Field Supervisor
Location:	11201 Harrel Street, Jurupa Valley, CA 91752
Telephone:	(951) 685-7434
Email:	jruiz@jcsd.us

II. SUPPLIER ASSIGNMENT

Special inquiries related to this Contract and the effects of this Contract shall be referred to the following:

Supplier Representative:
Address:
Telephone:
E-mail:

III. ORDER OF PRECEDENCE

The documents referenced below represent the Contract Documents. Where any conflicts exist between the general terms and conditions, addenda, attachment(s), or other contractual documents, the governing order of precedence shall be as follows:

A. AMENDMENT(S) TO CONTRACT.

B. CONTRACT GENERAL TERMS AND CONDITIONS.

C. SUPPLIER'S PROPOSAL DATED.

IV. SCOPE OF WORK

Supplier turnkey disposal services, and responsibilities shall include and be in accordance with the following:

The Supplier shall be responsible for the transport and disposal of approximately 4068 cubic feet spent ion exchange resin in strict accordance with the analytical results of spent resin as specified in **EXHIBIT "A"**. The resin is currently stored outdoors in **117 super sacks** located at Roger Teagarden Ion Exchange Treatment Plant located at 4150 Etiwanda Avenue, Jurupa Valley CA 91752.

The ion exchange resin disposal service will include the proper removal, packaging, transportation, and disposal of the exhausted resin via incineration at one or more of the disposal sites. The Supplier must furnish with its bid the contact's name and phone number for its proposed disposal site.

The Supplier will be responsible for cleanup of all ion exchange resin spills that may occur during the transfer operation.

A. TURNKEY DISPOSAL INSTRUCTIONS

Turnkey Disposal shall be made within **ninety (90) calendar days** from receipt of either a verbal or written turnkey disposal order from JCSD personnel. Turnkey disposal service shall be made Monday through Friday, between the hours of 7:00 a.m. and 4:00 p.m.

All bill of lading/shipping documents and associated invoice documents shall reference the number of super sacks disposed, as well as the corresponding number of pounds/cubic feet in order to facilitate JCSD's internal receiving and Accounts Payable transactions.

B. LOADING AND UNLOADING

Upon arrival, the turnkey disposal person will report to the Operator onsite; upon notification, a JCSD operator will observe and approve loading of spent resins. The Supplier shall allow a reasonable period of time, up to 30 minutes, between notification of clerk and approval by JCSD operators to load the spent resin super sacks. Procedures for loading and unloading of all shipments shall comply with Cal-OSHA and AWWA Standards. The Supplier's loading crew must possess and wear appropriate personal protection equipment (PPE), compliant with OSHA regulations, throughout each unloading process. Loading and unloading of all shipments SHALL not commence without a JCSD Operator present. The Supplier's loading equipment **must** be fully

compatible with JCSD facilities and equipment. Turnkey removal and disposal shall be executed without any spillage of material. **Any** spilled material, however minor, shall immediately be contained and properly removed by the Supplier. Any damage or disfigurement to JCSD property caused by a spill shall be corrected by the Supplier immediately and solely at the supplier's cost.

Prior to shipment of the ion exchange resin, the Supplier shall submit the following:

1. Health and Safety Plan – The Supplier's recommended health and safety plan for all personnel involved in handling the exhausted ion exchange resin that may contain hazardous materials.

V. TERM OF CONTRACT / OPTIONS

The term of this Contract shall be from **June 3, 2024, to September 3, 2024,** or as mutually agreed to between the Supplier and JCSD in any written extension to said Contract.

VI. PAYMENT, INVOICING, AND COMPENSATION

Supplier shall submit to JCSD a monthly itemized statement which indicates work completed and Services rendered by Supplier. The statement shall describe the amount of Services and supplies provided since the initial commencement date, or since the start of the subsequent billing periods, as appropriate, through the date of the statement. JCSD shall, within 45 days of receiving such statement, review the statement and pay all approved charges thereon.

Subsequent to each turnkey disposal service made against this contract, the supplier shall submit its invoice via e-mail to: ap@jcsd.us

A. AMOUNT OF COMPENSATION

As consideration for performance of the Work required herein, District agrees to pay Supplier the Total Contract Price of Dollars ( ) provided that such amount shall be subject to adjustment pursuant to the applicable terms of this Contract or written change orders approved and signed in advance by the District.

B. PAYMENT OF COMPENSATION

If the Work is scheduled for completion in thirty (30) or less calendar days, District will arrange for payment of the Total Contract Price upon completion and approval by District of the Work. If the Work is scheduled for completion in more than thirty (30) calendar days, District will pay Contractor on a monthly basis as provided for herein. On or before the fifth (5th) day of each month, Contractor shall submit to the District an itemized application for payment in the format supplied by the District indicating the amount of Work completed since commencement of the Work or since the last progress payment. These applications shall be supported by evidence which is required by this Contract and such other

documentation as the District may require. The Contractor shall certify that the Work for which payment is requested has been done and that the materials listed are stored where indicated. Contractor may be required to furnish a detailed schedule of values upon request of the District and in such detail and form as the District shall request, showing the quantities, unit prices, overhead, profit, and all other expenses involved in order to provide a basis for determining the amount of progress payments.

C. District shall review and pay all progress payment requests in accordance with the provisions set forth in Section 20104.50 of the California Public Contract Code. No progress payments will be made for Work not completed in accordance with this Contract.

VII. FITNESS FOR DUTY:

A. FITNESS

Supplier and its Subcontract personnel on JCSD property:

1. Shall report for work in a manner fit to do their job.

2. Shall not be under the influence of or in possession of any alcoholic beverages or of any controlled substance (except a controlled substance as prescribed by a physician so long as the performance or safety of the work is not affected thereby); and

3. Shall not have been convicted of any serious criminal offense which, by its nature, may have a discernible adverse impact on the business or reputation of JCSD.

4. Have a minimum of five years of experience in the handling and loading of ion exchange resin, including the unloading, transportation, and disposal of exhausted ion exchange resin, using trailers and equipment which are used only for potable water applications.

5. The Supplier, or its approved subcontractor, must possess a current California Class A, C-10 and Hazardous Materials Contractor's License or other equivalent license(s) required by the State of California.

6. Prior to shipment of the ion exchange resin, the Supplier shall submit the following:

    i. Health and Safety Plan – The Supplier’s recommended health and safety plan for all personnel involved in handling the exhausted ion exchange resin that may contain hazardous materials.

B. COMPLIANCE

Supplier shall advise all supplier and subcontractor personnel and associated third parties of the requirements of the Contract ("Fitness for Duty Requirements") before they enter on JCSD property and shall immediately remove from JCSD property any employee determined to be in violation of these requirements. Supplier shall impose these requirements on its Subcontractors. The JCSD may cancel the Contract if Supplier violates these Fitness for Duty Requirements.

VIII. INSURANCE

A. TIME FOR COMPLIANCE

Contractor shall not commence provision of Services under this Agreement until it has provided evidence satisfactory to the JCSD that it has secured all insurance required under this section. In addition, Contractor shall not allow any subcontractor to commence work on any subcontract until it has provided evidence satisfactory to the JCSD that the subcontractor has secured all insurance required under this section.

B. MINIMUM REQUIREMENTS

Contractor shall, at its expense, procure and maintain for the duration of the Agreement insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Agreement by the Contractor, its agents, representatives, employees or subcontractors. Contractor shall also require all of its subcontractors to procure and maintain the same insurance for the duration of the Agreement. Such insurance shall meet at least the following minimum levels of coverage:

1. Minimum Scope of Insurance

Coverage shall be at least as broad as the latest version of the following: (1) *General Liability*: Insurance Services Office Commercial General Liability coverage (occurrence form CG 0001); (2) *Automobile Liability*: Insurance Services Office Business Auto Coverage form number CA 0001, code 1 (any auto); and (3) *Workers' Compensation and Employer's Liability*: Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance.

2. Minimum Limits of Insurance

Contractor shall maintain limits no less than: (1) *General Liability:* $1,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with general aggregate limit is used, either the general aggregate limit shall apply separately to this Agreement/location or the general aggregate limit shall be twice the required occurrence limit; (2) *Automobile Liability:* $1,000,000 per accident for bodily injury and property damage; and (3) *Workers' Compensation and Employer's Liability:* Workers'

Compensation limits as required by the Labor Code of the State of California. Employer's Liability limits of $1,000,000 per accident for bodily injury or disease.

C. INSURANCE ENDORSEMENTS

The insurance policies shall contain the following provisions, or Contractor shall provide endorsements on forms supplied or approved by the JCSD to add the following provisions to the insurance policies:

1. General Liability

The general liability policy shall be endorsed to state that: (1) the JCSD its directors, officials, officers, employees, agents, member agencies and volunteers shall be covered as additional insured with respect to the provision of the Services or operations performed by or on behalf of the Contractor, including materials, parts or equipment furnished in connection with such work; and (2) the insurance coverage shall be primary insurance as respects the JCSD, its directors, officials, officers, employees, agents and volunteers, or if excess, shall stand in an unbroken chain of coverage excess of the Contractor's scheduled underlying coverage. Any insurance or self-insurance maintained by the JCSD, its directors, officials, officers, employees, agents and volunteers shall be excess of the Contractor's insurance and shall not be called upon to contribute with it in any way.

2. Automobile Liability

The automobile liability policy shall be endorsed to state that: (1) the JCSD, its directors, officials, officers, employees, agents, member agencies and volunteers shall be covered as additional insureds with respect to the ownership, operation, maintenance, use, loading or unloading of any auto owned, leased, hired or borrowed by the Contractor or for which the Contractor is responsible; and (2) the insurance coverage shall be primary insurance as respects the JCSD, its directors, officials, officers, employees, agents and volunteers, or if excess, shall stand in an unbroken chain of coverage excess of the Contractor's scheduled underlying coverage. Any insurance or self-insurance maintained by the JCSD, its directors, officials, officers, employees, agents and volunteers shall be excess of the Contractor's insurance and shall not be called upon to contribute with it in any way.

3. Workers' Compensation and Employers Liability Coverage

The insurer shall agree to waive all rights of subrogation against the JCSD, its directors, officials, officers, employees, agents and volunteers for losses paid under the terms of the insurance policy which arise from work performed by the Contractor.

4. All Coverages

Each insurance policy required by this Agreement shall be endorsed to state that: (A)

coverage shall not be suspended, voided, reduced or canceled except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the JCSD; and (B) any failure to comply with reporting or other provisions of the policies, including breaches of warranties, shall not affect coverage provided to the JCSD, its directors, officials, officers, employees, agents and volunteers.

D. SEPARATION OF INSUREDS; NO SPECIAL LIMITATIONS

All insurance required by this Section shall contain standard separation of insureds provisions. In addition, such insurance shall not contain any special limitations on the scope of protection afforded to the JCSD, its directors, officials, officers, employees, agents and volunteers.

E. DEDUCTIBLES AND SELF-INSURANCE RETENTIONS

Any deductibles or self-insured retentions must be declared to and approved by the JCSD. Contractor shall guarantee that, at the option of the JCSD, either: (1) the insurer shall reduce or eliminate such deductibles or self- insured retentions as respects the JCSD, its directors, officials, officers, employees, agents and volunteers; or (2) the Contractor shall procure a bond guaranteeing payment of losses and related investigation costs, claims and administrative and defense expenses.

F. ACCEPTABILITY OF INSURERS

Insurance is to be placed with insurers with a current A.M. Best's rating no less than A: VII, licensed to do business in California, and satisfactory to the JCSD.

G. VERIFICATION OF COVERAGE

Contractor shall furnish JCSD with original certificates of insurance and endorsements effecting coverage required by this Agreement on forms satisfactory to the JCSD. The certificates and endorsements for each insurance policy shall be signed by a person authorized by that insurer to bind coverage on its behalf and shall be on forms provided by the JCSD if requested. All certificates and endorsements must be received and approved by the JCSD before work commences. The JCSD reserves the right to require complete, certified copies of all required insurance policies, at any time.

H. SUBMITTAL OF CERTIFICATES

Contractor shall submit all required certificates and endorsements to the following: ap@jcsd.us or 11201 Harrel Street, Jurupa Valley CA 91752.

IX. LEGAL RELATIONS AND RESPONSIBILITIES

A. STATUS OF SUPPLIER

The Supplier is retained as an independent Supplier only, for the sole purpose of providing turnkey disposal services as described herein, and not an employee of JCSD.

B. OBSERVING LAWS AND ORDINANCES

The Supplier or any Subcontractor shall keep itself fully informed of all existing and future state and federal laws and all county and city ordinances and regulations which in any manner affect the supply of any product, conduct of any services or tasks performed under this Contract, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. The Supplier or any Subcontractor shall at all times observe and comply with all such existing and future laws, ordinances, regulations, orders and decrees, and shall protect and indemnify, as required herein, JCSD, its officers, employees and agents against any claim or liability arising from or based on the violation of any such law, ordinance, regulation, order or decree, whether by the Supplier or its employees.

C. SUBCONTRACT SERVICES

Any subcontracts for the performance of any services under this Contract shall be subject to the written approval of the Contract Administrator.

D. INDEMNIFICATION

Consultant shall indemnify JCSD, its directors, employees and assigns, and shall defend and hold them harmless from all liabilities, demands, actions, claims, losses and expenses, including reasonable attorneys' fees, which arise out of or are related to the negligence, recklessness or willful misconduct of the Consultant, its directors, employees, agents and assigns, in the performance of work under this contract.

E. CONFLICT OF INTEREST

No official of JCSD who is authorized in such capacity and on behalf of JCSD to negotiate, make, accept or approve, or to take part in negotiating, making, accepting or approving this Contract, or any subcontract relating to services or tasks to be performed pursuant to this Contract, shall become directly or indirectly personally interested in this Contract.

F. EQUAL OPPORTUNITY

During the performance of this contract JCSD, the Supplier and any Subcontractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, age, marital status, national origin, or physical handicap.

G. DISPUTES

1. All disputes arising out of or in relation to this Contract shall be determined in accordance with this section. The Counsel shall pursue the work to completion in accordance with the instruction of the JCSD's Contract Administrator notwithstanding the existence of dispute. By entering into this Contract, both parties are obligated, and hereby agree, to submit all disputes arising under or relating to the Contract which remain unresolved after the exhaustion of the procedures provided herein, to independent arbitration. Except as otherwise provided herein, arbitration shall be conducted under California Code of Civil Procedure Sections 1280, et. seq., or their successor.

2. Any and all disputes during the pendency of the work shall be subject to resolution by the JCSD Contract Administrator and the Counsel shall comply, pursuant to the JCSD Contract Administrator instructions. If the Counsel is not satisfied with any such resolution by the JCSD Contract Administrator, they may file a written protest with the JCSD Contract Administrator within seven (7) calendar days after receiving written notice of JCSD's decision. Failure by Counsel to file a written protest within seven (7) calendar days shall constitute waiver of protest, and acceptance of the JCSD Contract Administrator's resolution. The JCSD's Contract Administrator shall submit the Counsel's written protests to the Chief Executive Officer/General Manager (CEO/GM), together with a copy of the JCSD Contract Administrator's written decision, for his or her consideration within seven (7) calendar days after receipt of said protest(s). The CEP/GM shall make his or her determination with respect to each protest filed with the JCSD Contract Administrator within ten (10) calendar days after receipt of said protest(s). If Counsel is not satisfied with any such resolution by the CEO/GM, they may file a written request for arbitration with the Contract Administrator within seven (7) calendar days after receiving written notice of the CEO/GM's decision.

3. In the event of arbitration, the parties hereto agree that there shall be a single neutral Arbitrator who shall be selected in the following manner:

a. The Demand for Arbitration shall include a list of five names of persons acceptable to the Counsel to be appointed as Arbitrator. JCSD shall determine if any of the names submitted by Counsel are acceptable and, if so, such person will be designated as Arbitrator.

b. In the event that none of the names submitted by Counsel are acceptable to JCSD, or if for any reason the Arbitrator selected in Step (a) is unable to serve, JCSD shall submit to Counsel a list of five names of persons acceptable to JCSD for appointment as Arbitrator. The Counsel shall, in turn, have seven (7) calendar days in which to determine if one such person is acceptable.

c. If after Steps (a) and (b), the parties are unable to mutually agree upon a neutral Arbitrator, the matter of selection of an Arbitrator

shall be submitted to the San Bernardino County Superior Court pursuant to Code of Civil Procedure Section 1281.6, or its successor. The costs of arbitration, including but not limited to reasonable attorneys' fees, shall be recoverable by the party prevailing in the arbitration. If this arbitration is appealed to a court pursuant to the procedure under California Code of Civil Procedure Section 1294, et. seq., or their successor, the costs of arbitration shall also include court costs associated with such appeals, including but not limited to reasonable attorneys' fees which shall be recoverable by the prevailing party.

4. Joinder in Mediation/Arbitration: JCSD may join the Counsel in mediation or arbitration commenced by a Counsel on the Project pursuant to Public Contracts Code Sections 20104 et seq. Such joinder shall be initiated by written notice from the JCSD's representative to the Counsel.

X. INFRINGEMENT

Supplier represents and warrants that Work and Documentation shall be free of any claim of trade secret, trademark, trade name, copyright, or patent infringement or other violation of any Proprietary Rights of any person.

Supplier shall defend, indemnify and hold harmless, JCSD, its officers, directors, agents, employees, successors, assigns, servants, and volunteers free and harmless from any and all liability, damages, losses, claims, demands, actions, causes of action, and costs including reasonable attorneys' fees and expenses arising out of any claim that use of the Work or Documentation, to replace or modify the Work and Documentation infringes upon any trade secret, trade mark, trade name, copyright, patent, or other Proprietary Rights.

Supplier shall, at its expense and at JCSD's option, refund any amount paid by JCSD under the Contract, or exert its best efforts to procure for JCSD the right to use the Work and Documentation, to replace or modify the Work and Documentation as approved by JCSD so as to obviate any such claim of infringement, or to put up a satisfactory bond to permit JCSD's continued use of the Work and Documentation.

XI. TAXES, FEES, AND CHARGES

The Supplier, and any of its Subcontractors, shall pay all sales, consumer, use and other similar taxes, and pay all charges and fees required to be paid by the Supplier, or any of its Subcontractors, in accordance with state, county, and local laws and ordinances.

XII. NOTICES

Any notice may be served upon either party by delivering it in person, or by depositing it in a United States Mail deposit box with the postage thereon fully prepaid, and addressed to the party at the address set forth below:

JCSD: Attn: Accounts Payable
Jurupa Community Services District
11201 Harrel Street, Jurupa Valley CA 91752

Supplier: Attn: ----------

Any notice given hereunder shall be deemed effective in the case of personal delivery, upon receipt thereof, or, in the case of mailing, at the moment of deposit in the course of transmission with the United States Postal Service.

XIII. INTEGRATION

The Contract Documents represent the entire agreement between JCSD and the Supplier as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered by the Contract Documents. This Contract may not be modified, altered, or amended except by written mutual agreement by JCSD and the Supplier. (Government Code Section 4154)

XIV. GOVERNING LAW

This Contract is to be governed by and constructed in accordance with the laws of the State of California.

XV. SUCCESSORS AND ASSIGNS

All of the terms, conditions and provisions of this Contract shall inure to the benefit of and be binding upon JCSD, the Supplier, and their respective successors and assigns. Notwithstanding the foregoing, no assignment of the duties or benefits of the Supplier under this Contract may be assigned, transferred or otherwise disposed of without the prior written consent of the Contract Administrator and/or JCSD; and any such purported or attempted assignment, transfer, or disposal without the prior written consent of the Contract Administrator and/or JCSD shall be null, void, and of no legal effect whatsoever.

XVI. FORCE MAJEURE

Neither party shall hold the other responsible for the effects of acts occurring beyond their control; e.g., war, riots, strikes, acts of nature, etc.

XVII. TERMINATION

The JCSD reserves the right to suspend, cancel, or terminate this Contract at any time upon ten (10) calendar days written notice to the Supplier. In the event of such termination, the JCSD shall pay Supplier for all authorized and Supplier-invoiced turnkey disposal services, approved by the Contract Administrator, up to the date of such termination. (Government Code Section 4154).

XVIII. CHANGES

JCSD may, at any time, make changes to this Contract's Scope of Work; including additions, reductions, and other alterations to any or all of the work. However, such changes shall only be made via written, bi-laterally signed amendment to this Contract. The Contract Price and Work Schedule shall be equitably adjusted, if required, to account for such change and shall be set forth within the Contract Amendment.

XIX. FOB POINT

The FOB point for all turnkey disposal service against this contract shall be destination for one or more proposed disposal sites.

XX. NOTICE TO PROCEED

No services shall be performed or furnished under this Contract unless and until a fully executed Contract has been completed by all responsible parties and a Notice to Proceed has been issued by JCSD.

(Remainder of Page Left Intentionally Blank)

AS WITNESS HEREOF, the parties hereto have caused the Contract to be entered as of the day and year written above.

Jurupa Community Services District

By: _____

Chris Berch, P.E.
General Manager

By: _____

ATTEST:

_____

Maria E. Ayala
Executive Services Manager/Secretary to the Board of Directors

By: _____